SCIM for Federation

SCIM for Service Providers

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Getting Started

Introduction

> Soffid allows you to combine two of the most powerful addons you can use into Soffid Console, **SCIM,** and **Federation**.

Please note that the SCIM REST Web Service Add-on installed must be installed, please check this part in How to use SCIM in Soffid # Installation

Please note that a user with the authentication is required, please check this part in How to use SCIM in Soffid # Confirm authorization

Please note that it is recommended to use a REST client, please see our example in Testing tool # RESTer

Please note that the correct header parameters must be used, please browse them in SCIM in Soffid # HTTP request

Please note that the Federation addon must be installed and configured, check it in the Federation book.

Identify Service Provider

- **classe**: "S"

Service providers Types

Service providers types available

- **SAML**: saml
- **SAML API client**: soffid-saml
- **OpenID Connect**: openid-connect
- **OpenID Dynamic Register**: openid-dynamic-register

- **Radius client**: radius
- **CAS client**: cas

Open Id Mechanism

- PA: **User's password**
- AC: **Authorization code**
- PC: **User's password + Client credentials**
- IM: **Implicit**

Federation Operations

Soffid provides an API that allows you to connect to the Federation microservices.

The available operations are the following

- List all
- List by filter
- Query by id
- Create
- Update
- Delete

> You can visit the SCIM Federation Member examples and the SCIM Entity Group examples page for more detailed information.

SCIM Entity Group examples

Operations

This page shows the functions that can be performed for the Entity Group object.

List all

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 3,
   "startIndex": 1,
   "Resources": [
      {
         "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
            "resourceType": "EntityGroup"
         },
         "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
         ],
         "name": "test-demoIdP",
         "id": 5462422
      },
      {
         "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6725679",
```

```
            "resourceType": "EntityGroup"
         },
         "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
         ],
         "name": "Soffid",
         "id": 6725679
      },
      {
         "metadataUrl": "test-2",
         "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
         },
         "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
         ],
         "name": "test-2",
         "id": 6780683
      }
   ]
}
```


List by filter

List all entity groups with a filter expression.

> It is allowed to use pagination and sort the information, for more information visit the Sorting and Pagination information.

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup?filter=name co "test"
```

Response 200 OK


```
{
   "schemas": [
```

```
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
],
"totalResults": 3,
"startIndex": 1,
"Resources": [
    {
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
            "resourceType": "EntityGroup"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "test-demoIdP",
        "id": 5462422
    },
    {
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6725679",
            "resourceType": "EntityGroup"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "Soffid",
        "id": 6725679
    },
    {
        "metadataUrl": "test-2",
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "test-2",
        "id": 6780683
    }
```

```
  ]
}
```

Query by id

Query an entity group by its id (primary key).

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup/5462422
```

Response 200 OK

```
{
  "meta": {
    "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
    "resourceType": "EntityGroup"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
  ],
  "name": "test-demoIdP",
  "id": 5462422
}
```

Create

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup
```

JSON

```
 {
  "metadataUrl": "test-3",
  "name": "test-3"
}
```

Response 201 Created

```
{
   "metadataUrl": "test-3",
   "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780695",
      "resourceType": "EntityGroup"
   },
   "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
   ],
   "name": "test-3",
   "id": 6780695
}
```


Update partial

Only attributes with changes will be updated, the others will maintain the same value.

Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup/6780695
```

JSON

```
 {
   "Operations" : [
      {
         "op" : "replace",
         "path" : "name",
         "value": "SP Cloud"
      },
      {
         "op" : "replace",
         "path" : "metadataUrl",
         "value": "SP Cloud"
      }
   ]
}
```

Response 200 OK

```
{
   "metadataUrl": "SP Cloud",
   "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780695",
      "resourceType": "EntityGroup"
   },
   "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
   ],
   "name": "SP Cloud",
   "id": 6780695
}
```


Update all

This operation replaces all values in the entity group.

- Note that the attribute id is required to confirm that the resource "...EntityGroup/<id>" is the same that the JSON EntityGroup.
- Note that all the attributes not included in the request will be cleared in the EntityGroup and their data will be lost.
- Note that not all the attributes are updatable, for example, tag meta, avoid these tags.

  For more information see the Resource data model page

Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup/1976590
```

JSON


```
{
   "metadataUrl": "SP Cloud Test",
   "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
   ],
   "name": "SP Cloud Test",
   "id": 6780695
}
```


Response 200 OK

```
{
   "metadataUrl": "SP Cloud Test",
   "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780695",
      "resourceType": "EntityGroup"
   },
   "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
   ],
   "name": "SP Cloud Test",
   "id": 6780695
}
```


Delete

> Please note, after this deletion, the entity group has to be created again to use it in the following examples.

Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/EntityGroup/6780695
```

Response 204 No Content

```
204 No Content
```

Error response

> For more information about error response visit
> https://bookstack.soffid.com/link/116#bkmrk-error-response

SCIM Federation Members examples

Operations

This page shows the functions that can be performed for the Federation Member object.

List all

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 15,
   "startIndex": 1,
   "Resources": [
      {
         "internal": false,
         "allowRecover": false,
         "disableSSL": false,
         "impersonations": [],
         "roles": [],
         "ssoCookieName": "soffid_sso_session",
         "entityGroup": {
            "meta": {
               "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
               "resourceType": "EntityGroup"
```

```
            },
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
            ],
            "name": "test-demoIdP",
            "id": 5462422
        },
        "metadades": "{\n \"authorization_endpoint\": \"https://server/oauth2/auth\",\n \"token_endpoint\":
\"https://server/oauth2/token\",\n \"userinfo_endpoint\": \"https://server/oauth2/userinfo\",\n
\"scopes_supported\": [ \"openid\",\"email\",\"profile\"],\n \"display\": \"page\"\n}",
        "authenticationMethods": "P",
        "storeUser": false,
        "contact": "pgarcia@soffid.com",
        "loginHintScript": "loginHint",
        "id": 5999758,
        "enableCaptcha": false,
        "classe": "I",
        "idpType": "openid-connect",
        "keytabs": [],
        "meta": {
            "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/5999758",
            "resourceType": "FederationMember"
        },
        "organization": "Soffid",
        "extendedAuthenticationMethods": [],
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
        ],
        "name": "OpenIDConnect_Test",
        "serviceProvider": [],
        "allowRegister": false,
        "publicId": "OpenIDConnect_ID"
    },
    {
        "classe": "S",
        "internal": false,
        "allowRecover": false,
        "disableSSL": false,
```

```
        "virtualIdentityProvider": [],
        "impersonations": [],
        "roles": [],
        "registrationTokenExpiration": "2024-04-04 08:04:47",
        "uidExpression": "userName",
        "entityGroup": {
          "metadataUrl": "test-2",
          "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
          },
          "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
          ],
          "name": "test-2",
          "id": 6780683
        },
        "keytabs": [],
        "allowedScopes": [
          {
            "meta": {
              "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6798983",
              "resourceType": "AllowedScope"
            },
            "scope": "*",
            "roles": [],
            "schemas": [
              "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ],
            "id": 6798983
          },
          {
            "meta": {
              "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6798984",
              "resourceType": "AllowedScope"
            },
            "scope": "openid",
```

```
                "roles": [],
                "schemas": [
                    "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
                ],
                "id": 6798984
            }
        ],
        "openidMechanism": [
            "PA",
            "AC",
            "PC",
            "IM"
        ],
        "openidLogoutUrl": [],
        "openidSectorIdentifierUrl": "http://localhost:4204",
        "meta": {
            "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6796706",
            "resourceType": "FederationMember"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
        ],
        "name": "OpenIDDynamicRegister-Test2",
        "openidUrl": [],
        "id": 6796706,
        "maxRegistrations": 3,
        "allowRegister": false,
        "publicId": "OpenIDDynamicRegister-publicId-test2",
        "serviceProviderType": "openid-dynamic-register"
    },
    ........
    ]
}
```


List by filter

List all entity groups with a filter expression.

> It is allowed to use pagination and sort the information, for more information visit theSorting and Pagination information.

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/FederationMember?filter=name co "Dynamic"
```

Response 200 OK


```
{
   "schemas": [
      "urn:ietf:params:scim:api:messages:2.0:ListResponse"
   ],
   "totalResults": 2,
   "startIndex": 1,
   "Resources": [
     {
        "classe": "S",
        "internal": false,
        "allowRecover": false,
        "disableSSL": false,
        "virtualIdentityProvider": [],
        "impersonations": [],
        "roles": [
           "SOFFID_USER@soffid"
        ],
        "registrationTokenExpiration": "2023-11-09 07:57:20",
        "entityGroup": {
           "meta": {
              "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
              "resourceType": "EntityGroup"
           },
           "schemas": [
              "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
           ],
           "name": "test-demoIdP",
           "id": 5462422
        },
        "keytabs": [],
```

```
        "allowedScopes": [
            {
                "meta": {
                    "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6617980",
                    "resourceType": "AllowedScope"
                },
                "scope": "openid",
                "roles": [],
                "schemas": [
                    "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
                ],
                "id": 6617980
            },
            {
                "meta": {
                    "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6617977",
                    "resourceType": "AllowedScope"
                },
                "scope": "*",
                "roles": [],
                "schemas": [
                    "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
                ],
                "id": 6617977
            }
        ],
        "openidMechanism": [
            "PA",
            "AC"
        ],
        "openidLogoutUrl": [],
        "meta": {
            "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6617976",
            "resourceType": "FederationMember"
        },
        "schemas": [
```

```
            "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
         ],
         "name": "Dynamic Register SP",
         "openidUrl": [],
         "id": 6617976,
         "maxRegistrations": 2,
         "allowRegister": false,
         "publicId": "DR",
         "serviceProviderType": "openid-dynamic-register"
      },
      {
         "classe": "S",
         "internal": false,
         "allowRecover": false,
         "disableSSL": false,
         "virtualIdentityProvider": [],
         "impersonations": [],
         "roles": [
            "SOFFID_USER@soffid"
         ],
         "registrationTokenExpiration": "2022-11-10 00:00:00",
         "entityGroup": {
            "meta": {
               "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
               "resourceType": "EntityGroup"
            },
            "schemas": [
               "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
            ],
            "name": "test-demoIdP",
            "id": 5462422
         },
         "keytabs": [],
         "allowedScopes": [
            {
               "meta": {
                  "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6622593",
                  "resourceType": "AllowedScope"
```

```
            },
            "scope": "*",
            "roles": [],
            "schemas": [
               "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ],
            "id": 6622593
         },
         {
            "meta": {
               "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6622594",
               "resourceType": "AllowedScope"
            },
            "scope": "openid",
            "roles": [],
            "schemas": [
               "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ],
            "id": 6622594
         }
      ],
      "openidMechanism": [],
      "openidLogoutUrl": [],
      "meta": {
         "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6622589",
         "resourceType": "FederationMember"
      },
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
      ],
      "name": "Dynamic Register SP 2",
      "openidUrl": [],
      "id": 6622589,
      "maxRegistrations": 1,
      "allowRegister": false,
      "publicId": "DR2",
      "serviceProviderType": "openid-dynamic-register"
```

```
      }
   ]
}
```


Query by id

Query a federation member by its id (primary key).

Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/FederationMember/6617976
```

Response 200 OK


```
{
   "classe": "S",
   "internal": false,
   "allowRecover": false,
   "disableSSL": false,
   "virtualIdentityProvider": [],
   "impersonations": [],
   "roles": [
      "SOFFID_USER@soffid"
   ],
   "registrationTokenExpiration": "2023-11-09 07:57:20",
   "entityGroup": {
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/5462422",
         "resourceType": "EntityGroup"
      },
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
      ],
      "name": "test-demoIdP",
      "id": 5462422
   },
   "keytabs": [],
   "allowedScopes": [
      {
```

```
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6617980",
            "resourceType": "AllowedScope"
        },
        "scope": "openid",
        "roles": [],
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
        ],
        "id": 6617980
    },
    {
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6617977",
            "resourceType": "AllowedScope"
        },
        "scope": "*",
        "roles": [],
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
        ],
        "id": 6617977
    }
],
"openidMechanism": [
    "PA",
    "AC"
],
"openidLogoutUrl": [],
"meta": {
    "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6617976",
    "resourceType": "FederationMember"
},
"schemas": [
    "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
],
"name": "Dynamic Register SP",
"openidUrl": [],
"id": 6617976,
```

```
    "maxRegistrations": 2,
    "allowRegister": false,
    "publicId": "DR",
    "serviceProviderType": "openid-dynamic-register"
}
```

Create (SAML)

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

JSON

```
{
    "name": "App SAML Cloud" ,
    "publicId" : "http://<YOUR-SERVER>:8090/apps/user_saml/saml/metadata",
    "classe": "S",
    "serviceProviderType": "saml",
    "entityGroup": {
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
       "name": "test-2",
       "id": 6780683
    }
}
```

Response 201 Created

```
{
    "classe": "S",
    "internal": false,
    "allowRecover": false,
    "disableSSL": false,
```

```
    "virtualIdentityProvider": [],
    "impersonations": [],
    "roles": [],
    "entityGroup": {
        "metadataUrl": "test-2",
        "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "test-2",
        "id": 6780683
    },
    "keytabs": [],
    "meta": {
        "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6798992",
        "resourceType": "FederationMember"
    },
    "schemas": [
        "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
    ],
    "name": "App SAML Cloud",
    "id": 6798992,
    "allowRegister": false,
    "publicId": "http://<YOUR-SERVER>:8090/apps/user_saml/saml/metadata",
    "serviceProviderType": "saml"
}
```


Create (SAML API client)

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

JSON

```
{
   "name": "Test-IdP" ,
   "publicId" : "https://some.idp.com/identifier/",
   "classe": "S",
   "serviceProviderType": "soffid-saml",
   "entityGroup": {
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
         "resourceType": "EntityGroup"
      },
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
      ],
     "name": "test-2",
      "id": 6780683
   }
}
```


Response 201 Created


```
{
   "classe": "S",
   "internal": true,
   "allowRecover": false,
   "disableSSL": false,
   "virtualIdentityProvider": [],
   "impersonations": [],
   "roles": [],
   "entityGroup": {
      "metadataUrl": "test-2",
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
         "resourceType": "EntityGroup"
      },
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
      ],
      "name": "test-2",
      "id": 6780683
```

```
  },
  "keytabs": [],
  "meta": {
    "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787237",
    "resourceType": "FederationMember"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
  ],
  "name": "Test-IdP",
  "id": 6787237,
  "allowRegister": false,
  "publicId": "https://some.idp.com/identifier/",
  "serviceProviderType": "soffid-saml"
}
```


Create (OpenID Connect)

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

JSON


```
{
  "name": "AngularAppOpenID",
  "publicId": "AngularAppOpenID",
  "classe": "S",
  "serviceProviderType": "openid-connect",
  "roles": [
    "SOFFID_HRMANAGER@soffid",
    "SOFFID_MUSIC@soffid"
  ],
  "entityGroup": {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
    },
    "schemas": [
```

```
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "test-2",
        "id": 6780683
    },
    "allowedScopes": [
        {
            "scope": "profile",
            "roles": [
                "SOFFID_MUSIC@soffid"
            ],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ]
        },
        {
            "scope": "email",
            "roles": [],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ]
        }
    ],
    "openidMechanism": [
        "PA",
        "AC",
        "PC",
        "IM"
    ],
     "openidUrl": [
        "http://localhost:4204"
    ],
    "openidClientId" : "angularClientID",
    "openidSecret":  "XXXXXXX",
    "openidLogoutUrlFront": "http://demolab.soffid.pat.lab:8080/soffid/anonymuuslogout.zul",
    "openidLogoutUrlBack": "",
    "openidLogoutUrl" : [],
    "openidSectorIdentifierUrl": ""
}
```

openidMechanism

- PA: User's password
- AC: Authorization code
- PC: User's password + Client credentials
- IM: Implicit

Response 201 Created


```
{
   "internal": false,
   "allowRecover": false,
   "disableSSL": false,
   "virtualIdentityProvider": [],
   "impersonations": [],
   "roles": [
      "SOFFID_MUSIC@soffid",
      "SOFFID_HRMANAGER@soffid"
   ],
   "entityGroup": {
      "metadataUrl": "test-2",
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
         "resourceType": "EntityGroup"
      },
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
      ],
      "name": "test-2",
      "id": 6780683
   },
   "openidLogoutUrlBack": "",
   "openidMechanism": [
      "PA",
      "AC",
      "PC",
      "IM"
```

```
],
"openidSecret": {
   "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.api.Digest"
   ]
},
"id": 6787194,
"serviceProviderType": "openid-connect",
"classe": "S",
"openidLogoutUrlFront": "http://demolab.soffid.pat.lab:8080/soffid/anonymuuslogout.zul",
"keytabs": [],
"allowedScopes": [
   {
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787199",
         "resourceType": "AllowedScope"
      },
      "scope": "email",
      "roles": [],
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
      ],
      "id": 6787199
   },
   {
      "meta": {
         "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787197",
         "resourceType": "AllowedScope"
      },
      "scope": "profile",
      "roles": [
         "SOFFID_MUSIC@soffid"
      ],
      "schemas": [
         "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
      ],
      "id": 6787197
   },
   {
```

```
            "scope": "openid",
            "roles": [],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ]
        }
    ],
    "openidLogoutUrl": [],
    "openidSectorIdentifierUrl": "",
    "meta": {
        "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787194",
        "resourceType": "FederationMember"
    },
    "schemas": [
        "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
    ],
    "name": "AngularAppOpenID",
    "openidClientId": "angularClientID",
    "openidUrl": [
        "http://localhost:4204"
    ],
    "allowRegister": false,
    "publicId": "AngularAppOpenID"
}
```


Create (Radius)

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

JSON


```
{
    "name": "SP-RADIUS" ,
    "publicId" : "SP-RADIUS-publicId",
    "classe": "S",
    "serviceProviderType" : "radius",
    "radiusSecret" : "XXxxzzaasssDD",
```

```
  "sourceIps": "127.0.01,192.168.133.0/24",
  "roles": ["SOFFID_HRMANAGER@soffid",
            "SOFFID_MUSIC@soffid"],
  "system": "BABELTEST",
  "entityGroup": {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
    ],
    "name": "test-2",
    "id": 6780683
  }
}
```


Response 201 Created


```
{
  "classe": "S",
  "internal": false,
  "allowRecover": false,
  "disableSSL": false,
  "virtualIdentityProvider": [],
  "impersonations": [],
  "roles": [
    "SOFFID_MUSIC@soffid",
    "SOFFID_HRMANAGER@soffid"
  ],
  "entityGroup": {
    "metadataUrl": "test-2",
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
    ],
```

```
    "name": "test-2",
    "id": 6780683
  },
  "keytabs": [],
  "sourceIps": "127.0.01,192.168.133.0/24",
  "system": "BABELTEST",
  "meta": {
    "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787250",
    "resourceType": "FederationMember"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
  ],
  "name": "SP-RADIUS",
  "radiusSecret": "5GsnYxLvT0D0W4GQ9Zae",
  "id": 6787250,
  "allowRegister": false,
  "publicId": "SP-RADIUS-publicId",
  "serviceProviderType": "radius"
}
```


Create (Cas)

Request

```
POST http://<your-domain>/soffid/webservice/scim2/v1/FederationMember
```

JSON


```
{
  "name": "CAS",
  "publicId": "CAS-publicId",
  "classe": "S",
  "serviceProviderType": "cas",
  "roles": [
    "SOFFID_HRMANAGER@soffid",
    "SOFFID_MUSIC@soffid"
  ],
  "system": "BABELTEST",
```

```
  "consent": true,
  "entityGroup": {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
    ],
    "name": "test-2",
    "id": 6780683
  },
  "openidUrl": [
        "https://www.testcasserver.lab/cas/"
  ],
  "openidLogoutUrl": [
    "https://www.testcasserver.lab/cas/logout?service=<redirect_url>"
  ]
}
```


Response 201 Created


```
{
  "classe": "S",
  "internal": false,
  "allowRecover": false,
  "disableSSL": false,
  "virtualIdentityProvider": [],
  "impersonations": [],
  "roles": [
    "SOFFID_MUSIC@soffid",
    "SOFFID_HRMANAGER@soffid"
  ],
  "consent": true,
  "entityGroup": {
    "metadataUrl": "test-2",
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
```

```
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
        ],
        "name": "test-2",
        "id": 6780683
    },
    "keytabs": [],
    "system": "BABELTEST",
    "openidLogoutUrl": [
        "https://www.testcasserver.lab/cas/logout?service=<redirect_url>"
    ],
    "meta": {
        "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6804777",
        "resourceType": "FederationMember"
    },
    "schemas": [
        "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
    ],
    "name": "CAS",
    "openidUrl": [
        "https://www.testcasserver.lab/cas/"
    ],
    "id": 6804777,
    "allowRegister": false,
    "publicId": "CAS-publicId",
    "serviceProviderType": "cas"
}
```


Create (OpenID Dynamic Register)

The OpenID Dynamic Register has to be created in the Soffid console

> For more information, you can visit the Openid-connect Dynamic Register documentation

Update partial

Only attributes with changes will be updated, the others will maintain the same value.

Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/FederationMember/6787388
```

JSON

```
{
   "Operations" : [
      {
         "op" : "replace",
         "path" : "openidMechanism",
         "value": ["AC", "PC"]
      },
      {
         "op" : "replace",
         "path" : "consent",
         "value": "true"
      }
   ]
}
```

Response 200 OK


```
{
         "classe": "S",
         "internal": false,
         "allowRecover": false,
         "disableSSL": false,
         "openidLogoutUrlFront": "http://demolab.soffid.pat.lab:8080/soffid/anonymuuslogout.zul",
         "virtualIdentityProvider": [],
         "impersonations": [],
         "roles": [
            "SOFFID_MUSIC@soffid",
            "SOFFID_HRMANAGER@soffid"
         ],
         "entityGroup": {
            "metadataUrl": "test-2",
            "meta": {
               "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
               "resourceType": "EntityGroup"
```

```
            },
            "schemas": [
               "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
            ],
            "name": "test-2",
            "id": 6780683
         },
         "openidLogoutUrlBack": "",
         "keytabs": [],
         "allowedScopes": [
            {
               "meta": {
                  "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787199",
                  "resourceType": "AllowedScope"
               },
               "scope": "email",
               "roles": [],
               "schemas": [
                  "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
               ],
               "id": 6787199
            },
            {
               "meta": {
                  "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787197",
                  "resourceType": "AllowedScope"
               },
               "scope": "profile",
               "roles": [
                  "SOFFID_MUSIC@soffid"
               ],
               "schemas": [
                  "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
               ],
               "id": 6787197
            },
            {
```

```
                "scope": "openid",
                "roles": [],
                "schemas": [
                    "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
                ]
            }
        ],
        "openidMechanism": [
            "AC",
            "PC"
        ],
        "openidLogoutUrl": [],
        "openidSectorIdentifierUrl": "",
        "meta": {
            "location":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787194",
            "resourceType": "FederationMember"
        },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
        ],
        "name": "AngularAppOpenID",
        "openidClientId": "angularClientID",
        "openidUrl": [
            "http://localhost:4204"
        ],
        "id": 6787194,
        "allowRegister": false,
        "publicId": "AngularAppOpenID",
        "serviceProviderType": "openid-connect"
    }
```


Update all

This operation replaces all values in the entity group.

- Note that the attribute id is required to confirm that the resource "...EntityGroup/<id>" is the same that the JSON EntityGroup.
- Note that all the attributes not included in the request will be cleared in the EntityGroup and their data will be lost.

- Note that not all the attributes are updatable, for example, tag meta, avoid these tags.

  For more information see the Resource data model page

Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/EntityGroup/6787194
```

JSON


```
{
   "classe": "S",
   "internal": false,
   "allowRecover": false,
   "disableSSL": false,
   "openidLogoutUrlFront": "http://demolab.soffid.pat.lab:8080/soffid/anonymuuslogout.zul",
   "virtualIdentityProvider": [],
   "impersonations": [],
   "roles": [
    ],
    "entityGroup": {
      "metadataUrl": "test-2",
         "meta": {
            "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
            "resourceType": "EntityGroup"
         },
        "schemas": [
            "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
         ],
         "name": "test-2",
         "id": 6780683
      },
      "openidLogoutUrlBack": "",
      "keytabs": [],
      "allowedScopes": [
         {
            "meta": {
               "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787199",
               "resourceType": "AllowedScope"
            },
            "scope": "email",
```

```
            "roles": [],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ],
            "id": 6787199
        },
        {
            "meta": {
                "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787197",
                "resourceType": "AllowedScope"
            },
            "scope": "profile",
            "roles": [
                "SOFFID_MUSIC@soffid"
            ],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ],
            "id": 6787197
        },
        {
            "scope": "openid",
            "roles": [],
            "schemas": [
                "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
            ]
        }
    ],
    "openidMechanism": [
    "PA",
    "AC",
    "PC",
    "IM"
],
"openidLogoutUrl": [],
"openidSectorIdentifierUrl": "",
"meta": {
    "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787194",
    "resourceType": "FederationMember"
},
```

```
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
  ],
  "name": "AngularAppOpenID",
  "openidClientId": "angularClientID",
  "openidUrl": [
    "http://localhost:4204"
  ],
  "allowRegister": false,
  "publicId": "AngularAppOpenID",
  "serviceProviderType": "openid-connect"
}
```


Response 200 OK


```
{
  "classe": "S",
  "internal": false,
  "allowRecover": false,
  "disableSSL": false,
  "openidLogoutUrlFront": "http://demolab.soffid.pat.lab:8080/soffid/anonymuuslogout.zul",
  "virtualIdentityProvider": [],
  "impersonations": [],
  "roles": [
    "SOFFID_MUSIC@soffid",
    "SOFFID_HRMANAGER@soffid"
  ],
  "entityGroup": {
    "metadataUrl": "test-2",
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/EntityGroup/6780683",
      "resourceType": "EntityGroup"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.EntityGroup"
    ],
    "name": "test-2",
    "id": 6780683
  },
  "openidLogoutUrlBack": "",
```

```
"keytabs": [],
"allowedScopes": [
  {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6802723",
      "resourceType": "AllowedScope"
    },
    "scope": "openid",
    "roles": [],
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
    ],
    "id": 6802723
  },
  {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787199",
      "resourceType": "AllowedScope"
    },
    "scope": "email",
    "roles": [],
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
    ],
    "id": 6787199
  },
  {
    "meta": {
      "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/AllowedScope/6787197",
      "resourceType": "AllowedScope"
    },
    "scope": "profile",
    "roles": [
      "SOFFID_MUSIC@soffid"
    ],
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.federation.common.AllowedScope"
    ],
    "id": 6787197
```

```
        }
    ],
    "openidMechanism": [
        "PA",
        "AC",
        "PC",
        "IM"
    ],
    "openidLogoutUrl": [],
    "openidSectorIdentifierUrl": "",
    "meta": {
        "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/FederationMember/6787194",
        "resourceType": "FederationMember"
    },
    "schemas": [
        "urn:soffid:com.soffid.iam.addons.federation.common.FederationMember"
    ],
    "name": "AngularAppOpenID",
    "openidClientId": "angularClientID",
    "openidUrl": [
        "http://localhost:4204"
    ],
    "id": 6787194,
    "allowRegister": false,
    "publicId": "AngularAppOpenID",
    "serviceProviderType": "openid-connect"
}
```


Delete

> Please note, after this deletion, the entity group has to be created again to use it in the following examples.

Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/FederationMember/6784722
```

Response 204 No Content

204 No Content

Error response

> For more information about error response visit
> https://bookstack.soffid.com/link/116#bkmrk-error-response