

# SCIM for Federation

SCIM for Service Providers

- [Getting Started](#)
- [SCIM Entity Group examples](#)
- [SCIM Federation Members examples](#)

# □ 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-demoldP",
      "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-demoldP",
    "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-demoldP",  
  "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-demoldP",
    "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 the [Sorting](#) 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-demoldP",
        "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-demoldP",
    "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-demoldP",  
    "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/anonymuslogout.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": "127.0.0.1,192.168.133.0/24",
"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": "127.0.0.1,192.168.133.0/24",
  "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/anonymuslogout.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.woffid.pat.lab:8080/woffid/webservice/scim2/v1/AllowedScope/6802723",
      "resourceType": "AllowedScope"
    },
    "scope": "openid",
    "roles": [],
    "schemas": [
      "urn:woffid:com.woffid.iam.addons.federation.common.AllowedScope"
    ],
    "id": 6802723
  },
  {
    "meta": {
      "location": "http://demolab.woffid.pat.lab:8080/woffid/webservice/scim2/v1/AllowedScope/6787199",
      "resourceType": "AllowedScope"
    },
    "scope": "email",
    "roles": [],
    "schemas": [
      "urn:woffid:com.woffid.iam.addons.federation.common.AllowedScope"
    ],
    "id": 6787199
  },
  {
    "meta": {
      "location": "http://demolab.woffid.pat.lab:8080/woffid/webservice/scim2/v1/AllowedScope/6787197",
      "resourceType": "AllowedScope"
    },
    "scope": "profile",
    "roles": [
      "SOFFID_MUSIC@woffid"
    ],
    "schemas": [
      "urn:woffid:com.woffid.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



# Error response

For more information about error response visit

<https://bookstack.soffid.com/link/116#bkmrk-error-response>