

# SCIM full examples

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# Previous steps

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 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](#)

# SCIM User examples

## Operations

This page shows the operations that can be performed for the user object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 64,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Pig",
      "profileServer": "null",
      "createdByUser": "hrms",
      "fullName": "Dad Pig",
      "active": true,
      "userName": "1",
      "mailAlias": "",
      "mailServer": "null",
      "firstName": "Dad",
      "createdDate": "2021-02-16 13:38:26",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1477909",
```

```
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'1'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'1'+and+disabled+eq+false",
      "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'1'"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "admin",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2021-05-04 09:24:54",
  "attributes": {},
  "id": 1477909,
  "userType": "I",
  "homeServer": "null",
  "primaryGroupDescription": "World Original",
  "primaryGroup": "world"
},
{
  "lastName": "SUZY",
  "profileServer": "null",
  "createdByUser": "hrms",
  "fullName": "Suzy SUZY",
  "active": true,
  "userName": "10",
  "mailAlias": "",
  "mailServer": "null",
  "firstName": "Suzy",
  "createdDate": "2021-02-16 13:38:27",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1477931",
    "links": {
```

```
    "roleAccounts":
    "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'10'+and+enabled+eq+true",
    "groupUsers":
    "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'10'+and+disabled+eq+false"
  ,
    "accounts":
    "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'10'"
  },
  "resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2021-05-05 14:11:37",
"attributes": {},
"id": 1477931,
"userType": "I",
"homeServer": "null",
"primaryGroupDescription": "World Original",
"primaryGroup": "world"
},
{
  "lastName": "Rabbit",
  "profileServer": "null",
  "createdByUser": "hrms",
  "fullName": "Ricchard Rabbit",
  "active": true,
  "userName": "11",
  "mailAlias": "",
  "mailServer": "null",
  "firstName": "Ricchard",
  "createdDate": "2021-02-16 13:38:27",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1477953",
    "links": {
```

```

        "roleAccounts":
        "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'11'+and+enabled+eq+true",
        "groupUsers":
        "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'11'+and+disabled+eq+false"
    ,
        "accounts":
        "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'11'"
    },
    "resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
    "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2021-02-17 19:06:20",
"attributes": {},
"id": 1477953,
"userType": "I",
"homeServer": "null",
"primaryGroupDescription": "World Original",
"primaryGroup": "world"
},
.....
]
}

```

## List by filter

List all users 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/User?filter=lastName co
ada&sortOrder=descending&sortBy=userName
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 13,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "ADAMS",
      "comments": "Changed",
      "profileServer": "null",
      "createdByUser": "soffid.bubu.lab",
      "fullName": "Wally ADAMS",
      "active": true,
      "userName": "wally",
      "mailAlias": "",
      "mailServer": "null",
      "firstName": "Wally",
      "createdDate": "2020-12-11 11:23:58",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1002599",
        "links": {
          "roleAccounts":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'wally'+and+enabled+eq+true",
          "groupUsers":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'wally'+and+disabled+eq+false",
          "accounts":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'wally'"
        }
      },
      "resourceType": "User"
    }
  ]
}
```

```
    },
    "modifiedByUser": "admin",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2021-04-22 19:31:01",
    "attributes": {
        "RegisterServiceProvider": "anonymous",
        "manager": "admin",
        "PHONE": "2",
        "EMAIL": "wally5@test.com",
    },
    "id": 1002599,
    "userType": "I",
    "homeServer": "null",
    "primaryGroupDescription": "Enterprise",
    "primaryGroup": "enterprise"
},
{
    "lastName": "ADAMS",
    "comments": "Changed",
    "profileServer": "null",
    "createdByUser": "soffid.bubu.lab",
    "fullName": "Tina ADAMS",
    "active": true,
    "userName": "tina",
    "mailAlias": "",
    "mailServer": "null",
    "firstName": "Tina",
    "createdDate": "2020-12-11 12:22:07",
    "multiSession": false,
    "meta": {
        "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1004678",
        "links": {
            "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'tina'+and+enabled+eq+true",
            "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'tina'+and+disabled+eq+fals
```



```
e",
    "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'tina'",
    },
    "resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
    "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2021-04-22 19:11:17",
"attributes": {
    "RegisterServiceProvider": "anonymous",
    "manager": "admin",
    "PHONE": "1",
    "EMAIL": "tina11@test.com",
},
"id": 1004678,
"userType": "I",
"homeServer": "null",
"primaryGroupDescription": "Enterprise",
"primaryGroup": "enterprise"
},
{
    "lastName": "ADAMS",
    "comments": "Changed",
    "profileServer": "null",
    "createdByUser": "soffid.bubu.lab",
    "fullName": "Teodoro ADAMS",
    "active": true,
    "userName": "ted",
    "mailAlias": "",
    "mailServer": "null",
    "firstName": "Teodoro",
    "createdDate": "2020-12-11 09:18:42",
    "multiSession": false,
    "meta": {
        "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1000190",
```

```

    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'ted'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'ted'+and+disabled+eq+false",
      "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'ted'"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "admin",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2021-02-04 15:44:42",
  "attributes": {
    "RegisterServiceProvider": "anonymous",
    "manager": "admin",
    "EMAIL": "test3@gmail.com",
  },
  "id": 1000190,
  "userType": "I",
  "homeServer": "null",
  "primaryGroupDescription": "Enterprise",
  "primaryGroup": "enterprise"
},
.....
]
}

```

## Query by id

Query a user by its id (primary key).

### Request

GET http://<your-domain>/soffid/webservice/scim2/v1/User/1057751

## Response 200 OK

```
{
  "lastName": "Smith",
  "comments": "Changed",
  "createdByUser": "soffid.bubu.lab",
  "fullName": "John Smith",
  "active": true,
  "userName": "jsmith",
  "mailAlias": "",
  "firstName": "John",
  "createdDate": "2020-12-14 17:52:14",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1057751",
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'jsmith'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'jsmith'+and+disabled+eq+false",
      "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'jsmith'"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "admin",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2021-05-07 12:32:41",
  "attributes": {
    "RegisterServiceProvider": "anonymous",
    "manager": "admin",
    "EMAIL": "jsmith@test.com",
```

```
"birthDate": "1970-05-26 00:00:00",
"ActivationKey": "HPhl61lBlJ9fgcDtWyug0O15"
},
"id": 1057751,
"userType": "I",
"primaryGroupDescription": "Help desk support team",
"primaryGroup": "it"
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "userName": "ckelp",
  "firstName": "Cas",
  "lastName": "Kelp",
  "userType": "I",
  "primaryGroup": "world",
  "homeServer": "null",
  "mailServer": "null",
  "profileServer": "null",
  "active": true
}
```

## Response 201 Created

```
{
  "lastName": "Kelp",
  "profileServer": "null",
  "createdByUser": "admin",
  "fullName": "Cas Kelp",
}
```

```
"active": true,
"userName": "ckelp",
"mailAlias": "",
"mailServer": "null",
"firstName": "Cas",
"createdDate": "2021-05-11 09:06:49",
"multiSession": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User/1976665",
  "resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2021-05-11 09:06:49",
"attributes": {},
"id": 1976665,
"userType": "I",
"homeServer": "null",
"primaryGroupDescription": "World Original",
"primaryGroup": "world"
}
```

## Update partial

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

If you want to add users to a group, please visit [SCIM GroupUser examples](#) page

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/User/1976665
```

## JSON

```
{
  "Operations": [
    {
```

```
    "op": "replace",
    "path": "lastName",
    "value": "Casey"
  },
  {
    "op": "replace",
    "path": "middleName",
    "value": "XX"
  }
]
```

## Response 200 OK

```
{
  "lastName": "Casey",
  "profileServer": "null",
  "createdByUser": "admin",
  "fullName": "Casey Casey XX",
  "active": true,
  "userName": "ckelp",
  "mailAlias": "",
  "mailServer": "null",
  "firstName": "Casey",
  "createdDate": "2021-05-11 09:06:49",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User/1976665",
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'ckelp'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'ckelp'+and+disabled+eq+false",
      "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'ckelp'"
    },
    "resourceType": "User"
  }
}
```

```
{,
  "modifiedByUser": "admin",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2021-05-11 09:33:35",
  "middleName": "XX",
  "attributes": {},
  "id": 1976665,
  "userType": "I",
  "homeServer": "null",
  "primaryGroupDescription": "World Original",
  "primaryGroup": "world"
}
```

## Password change

Password change request. Multiple domains can be specified adding new objects inside the first "value" key. In this example we update the password on a user so that the user doesn't have to change the password on the first logon ("passwordExpired" is false).

## Request

```
PATCH https://<your-domain>/soffid/webservice/scim2/v1/User/568327
```

## Body (JSON)

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "Operations": [
    {
      "op": "replace",
      "path": "password",
      "value": [
        {"domain": "DEFAULT",
          "value": "NewPass1234",
          "passwordExpired": false}
```

```
    ]
  }
}
}
```

## Response 200 OK

```
{
  "lastName": "Peaky",
  "createdByUser": "admin",
  "fullName": "Familiar Peaky Primer",
  "active": true,
  "userName": "familiar1",
  "mailAlias": "",
  "firstName": "Familiar",
  "emailAddress": "familiar1@soffid.com",
  "mailDomain": "soffid.com",
  "createdDate": "2023-07-05 00:00:00",
  "multiSession": false,
  "meta": {
    "location": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/User/568327",
    "links": {
      "roleAccounts": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'familiar1'
+and+enabled+eq+true",
      "groupUsers": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'familiar1'+and+
disabled+eq+false",
      "accounts": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.
userName+eq+'familiar1'",
      "issues": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'familiar1'",
      "effectiveGrants": "http://pr-as-am19-dev-soffid-console-ms-ns-as-am19-dev-
back.apps.aroas.westeurope.aroapp.io/soffid/webservice/scim2/v1/User/568327/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "queries",
```



```
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2024-05-15 09:46:28.714",
"middleName": "Primer",
"attributes": {
  "gepidId": "645cb2ed99e63065c76b51de",
  "RecoverKey":
"unEVPLWQ2KLdocjmpGs2vO4uO6jL8m2VMChIypJCTUmMV867l1ZgEr5sAJBw5koJ0uOYOM3iCRC4568327",
  "email": "familiar1@soffid.com"
},
"id": 568327,
"userType": "E",
"shortName": "familiar1",
"primaryGroupDescription": "World",
"primaryGroup": "world"
}
```

## Update all

This operation replaces all values in the user.

- Note that the attribute id is required to confirm that the resource "...User/<id>" is the same that the JSON user.
- Note that all the attributes not included in the request will be cleared in the user 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 [Resource data model page](#)

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "id": 1976665,
```

```
"userName": "ckelp",
"firstName": "Casey",
"lastName": "Kelp",
"userType": "I",
"primaryGroup": "world",
"homeServer": "null",
"mailServer": "null",
"profileServer": "null",
"active": true
}
```

## Response 200 OK

```
{
  "lastName": "Kelp",
  "profileServer": "null",
  "createdByUser": "admin",
  "fullName": "Casey Kelp",
  "active": true,
  "userName": "ckelp",
  "mailAlias": "",
  "mailServer": "null",
  "firstName": "Casey",
  "createdDate": "2021-05-11 09:06:49",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/User/1976665",
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'ckelp'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'ckelp'+and+disabled+eq+false",
      "accounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'ckelp'"
    },
    "resourceType": "User"
  },
}
```

```
"modifiedByUser": "admin",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2021-05-11 09:35:24",
"attributes": {},
"id": 1976665,
"userType": "I",
"homeServer": "null",
"primaryGroupDescription": "World Original",
"primaryGroup": "world"
}
```

## Delete

Please note after this delete, the user has to be created again to use it in the following examples.

### Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/User/1976665
```

### 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 Group examples

## Operations

This page shows the operations that can be performed for the group object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 7,
  "startIndex": 1,
  "Resources": [
    {
      "organizational": false,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/83",
        "links": {
          "members":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'world'+or
            secondaryGroup.group.name+eq+'world'",
          "administrators":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'world'"
        },
        "resourceType": "Group"
      },
      "quota": "0",
```

```

"schemas": [
  "urn:soffid:com.soffid.iam.api.Group"
],
"name": "world",
"obsolete": false,
"description": "World Original",
"attributes": {},
"id": 83
},
{
  "organizational": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/87",
    "links": {
      "members":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'enterprise'+or
secondaryGroup.group.name+eq+'enterprise'",
      "administrators":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'enterprise'"
    },
    "resourceType": "Group"
  },
  "quota": "0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ],
  "name": "enterprise",
  "obsolete": false,
  "description": "Enterprise",
  "parentGroup": "world",
  "attributes": {},
  "id": 87
},
.....
]
}

```

## List by filter

List all 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/Group?filter=name co world
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "organizational": false,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/83",
        "links": {
          "members":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'world'+or
            secondaryGroup.group.name+eq+'world'",
          "administrators":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'world'"
        },
        "resourceType": "Group"
      },
      "quota": "0",
      "schemas": [
        "urn:soffid:com:soffid:iam:api:Group"
      ],
      "name": "world",
      "obsolete": false,
    }
  ]
}
```

```

    "description": "World Original",
    "attributes": {},
    "id": 83
  },
  {
    "organizational": false,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/485118",
      "links": {
        "members":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'world2'+or
secondaryGroup.group.name+eq+'world2'",
        "administrators":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'world2'"
      },
      "resourceType": "Group"
    },
    "quota": "0",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Group"
    ],
    "name": "world2",
    "obsolete": false,
    "description": "World Modified",
    "attributes": {},
    "id": 485118
  }
]
}

```

## Query by id

Retrieve a group by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Group/83
```

### Response 200 OK

```
{
  "organizational": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/83",
    "links": {
      "members":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'world'+or
secondaryGroup.group.name+eq+'world'",
      "administrators":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'world'"
    },
    "resourceType": "Group"
  },
  "quota": "0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ],
  "name": "world",
  "obsolete": false,
  "description": "World Original",
  "attributes": {},
  "id": 83
}
```

# Create

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ],
  "name": "EngineeringTeam",
  "description": "Enterprise engineering team",
  "parentGroup": "world"
}
```



```
}
```

## Response 201 Created

```
{
  "organizational": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/1976559",
    "resourceType": "Group"
  },
  "quota": "0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ],
  "name": "EngineeringTeam",
  "obsolete": false,
  "description": "Enterprise engineering team",
  "parentGroup": "world",
  "attributes": {},
  "id": 1976559
}
```

## Update partial

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

If you want to add users to a group, please visit [SCIM GroupUser examples page](#)

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Group/1976559
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "description",

```

```
    "value": "Enterprise Engineering Group"
  },
  {
    "op": "replace",
    "path": "type",
    "value": "CC"
  }
]
}
```

## Response 200 OK

```
{
  "organizational": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/1976559",
    "links": {
      "members":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=primaryGroup+eq+'EngineeringTeam'+or
secondaryGroup.group.name+eq+'EngineeringTeam'",
      "administrators":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=group.name+eq+'EngineeringTeam'"
    },
    "resourceType": "Group"
  },
  "quota": "0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ],
  "name": "EngineeringTeam",
  "obsolete": false,
  "description": "Enterprise Engineering Group",
  "parentGroup": "world",
  "attributes": {},
  "id": 1976559,
  "type": "CC"
}
```

## Update all

This operation replaces all values in the group.

- Note that the attribute id is required to confirm that the resource "...Group/<id>" is the same that the JSON group.
- Note that all the attributes not included in the request will be cleared in the group 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 [Resource data model page](#).

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Group/1976559
```

## JSON

```
{
  "schemas": ["urn:soffid:com.soffid.iam.api.Group"],
  "id": 1976559,
  "name": "EngineeringTeam",
  "description": "Enterprise engineering team",
  "parentGroup": "world"
}
```

## Response 200 OK

```
{
  "organizational": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/1976559",
    "links": {
      "members":
        "http://soffid.pat.lab:8080/soffid/webService/scim2/v1/User?filter=primaryGroup+eq+'EngineeringTeam'+or
        secondaryGroup.group.name+eq+'EngineeringTeam'",
      "administrators":
        "http://soffid.pat.lab:8080/soffid/webService/scim2/v1/RoleAccount?filter=group.name+eq+'EngineeringTeam'"
    },
    "resourceType": "Group"
  },
  "quota": "0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Group"
  ]
}
```

```
],  
  "name": "EngineeringTeam",  
  "obsolete": false,  
  "description": "Enterprise engineering team",  
  "parentGroup": "world",  
  "attributes": {},  
  "id": 1976559  
}
```

## Delete

Please note that after this delete action, you will need to create again the group to use it in the next examples.

### Request

```
DELETE http://<your-domain>/soffid/webservice/scim2/v1/Group/1976559
```

### 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 Account examples

## Operations

This page shows the operations that can be performed for the account object

### List all

List all accounts, disabled or not.

#### Request

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

#### Response 200 OK

For example, after the Soffid installation, these are the available account.

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastLogin": "2021-05-10 13:00:40",
      "grantedRoles": [],
      "description": "Soffid Administrator",
      "type": "U",
      "ownerGroups": [],
      "oldName": "admin",
      "loginName": "admin",
      "inheritNewPermissions": false,
      "disabled": false,
    }
  ]
}
```

```

    "id": 103,
    "managerGroups": [],
    "grantedGroups": [],
    "lastPasswordSet": "2021-05-05 11:32:14",
    "passwordExpiration": "2022-05-05 00:00:00",
    "passwordPolicy": "I",
    "accessLevel": "O",
    "managerRoles": [],
    "created": "2020-02-13 23:01:44",
    "system": "soffid",
    "ownerRoles": [],
    "meta": {
      "location": "http://<your-domain>/webservice/scim2/v1/Account/103",
      "links": {
        "roleAccounts": "http://<your-
domain>/webservice/scim2/v1/RoleAccount?filter=account.id+eq+103+and+enabled+eq+true",
        "users": "http://<your-
domain>/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+103+or+accounts.account.id+eq+10
3"
      },
      "resourceType": "Account"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Account"
    ],
    "name": "admin",
    "managerUsers": [],
    "attributes": {},
    "status": "a",
    "ownerUsers": [
      "admin"
    ],
    "grantedUsers": []
  }
]
}

```

## List by filter

List all accounts 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/Account?filter=name co "adm" and passwordPolicy pr
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "lastLogin": "2021-05-10 13:05:15",
      "grantedRoles": [],
      "description": "Soffid Administrator",
      "type": "U",
      "ownerGroups": [],
      "oldName": "admin2",
      "loginName": "admin",
      "inheritNewPermissions": false,
      "disabled": false,
      "id": 103,
      "managerGroups": [],
      "grantedGroups": [],
      "lastPasswordSet": "2021-05-05 11:32:14",
      "passwordExpiration": "2022-05-05 00:00:00",
      "passwordPolicy": "I",
      "accessLevel": "O",
      "managerRoles": [],
      "created": "2020-02-13 23:01:44",
```

```
"system": "soffid",
"ownerRoles": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/103",
  "links": {
    "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+103+and+enabled+eq+true",
    "users":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+103+or+accounts.account.id+eq+103"
  },
  "resourceType": "Account"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Account"
],
"name": "admin",
"managerUsers": [],
"attributes": {},
"status": "a",
"ownerUsers": [
  "admin"
],
"grantedUsers": []
},
{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "created": "2021-03-04 22:37:21",
  "description": "Soffid test account",
  "type": "I",
  "system": "soffid",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1587766",
```



```
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+1587766+and+enabled+eq+true",
      "users":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+1587766+or+accounts.account.id+eq+1587766"
    },
    "resourceType": "Account"
  },
  "loginName": "admintest",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "name": "admintest",
  "inheritNewPermissions": false,
  "managerUsers": [
    "dilbert",
    "dogbert"
  ],
  "disabled": false,
  "attributes": {},
  "id": 1587766,
  "managerGroups": [],
  "grantedGroups": [],
  "status": "a",
  "ownerUsers": [
    "admin"
  ],
  "grantedUsers": []
},
{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "created": "2021-03-04 22:44:06",
  "description": "Soffid test account 2",
  "type": "I",
```

```
"system": "soffid",
"ownerGroups": [],
"ownerRoles": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1587776",
  "links": {
    "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+1587776+and+enabled+eq+true",
    "users":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+1587776+or+accounts.account.id+eq+1587776"
  },
  "resourceType": "Account"
},
"loginName": "admintest2",
"schemas": [
  "urn:soffid:com.soffid.iam.api.Account"
],
"name": "admintest2",
"inheritNewPermissions": false,
"managerUsers": [
  "dilbert",
  "dogbert"
],
"disabled": false,
"attributes": {},
"id": 1587776,
"managerGroups": [],
"grantedGroups": [],
"status": "a",
"ownerUsers": [
  "admin"
],
"grantedUsers": []
}
]
}
```

# Query by id

Query an account by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Account/1057754
```

## Response 200 OK

```
{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "accessLevel": "-",
  "managerRoles": [],
  "created": "2020-12-14 17:52:14",
  "description": "John Smith",
  "type": "U",
  "system": "idp",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1057754",
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+1057754+and+enabled+eq+true",
      "users":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+1057754+or+accounts.account.id+eq+1057754"
    },
    "resourceType": "Account"
  },
  "loginName": "jsmith",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "name": "jsmith",
  "inheritNewPermissions": false,
```

```
"managerUsers": [],
"disabled": false,
"attributes": {},
"id": 1057754,
"managerGroups": [],
"grantedGroups": [],
"status": "a",
"ownerUsers": [
  "jsmith"
],
"grantedUsers": []
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": ["urn:soffid:com.soffid.iam.api.Account"],
  "name": "Guest",
  "type": "I",
  "system": "soffid",
  "passwordPolicy": "I",
  "description": "Guest user",
  "inheritNewPermissions": false,
  "disabled": false
}
```

## Response 201 Created

```
{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "managerRoles": [],
  "description": "Guest user",
}
```

```
"type": "I",
"system": "soffid",
"ownerGroups": [],
"ownerRoles": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1976454",
  "resourceType": "Account"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Account"
],
"name": "Guest",
"inheritNewPermissions": false,
"managerUsers": [],
"disabled": false,
"attributes": {},
"id": 1976454,
"managerGroups": [],
"grantedGroups": [],
"ownerUsers": [],
"grantedUsers": []
}
```

## 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/Account/15455
```

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "Operations": [
    {
      "op": "replace",
```

```

    "path": "description",
    "value": "Guest User"
  },
  {
    "op": "replace",
    "path": "ownerUsers",
    "value": [
      "admin"
    ]
  }
]
}

```

## Response 200 OK

```

{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "accessLevel": "-",
  "managerRoles": [],
  "created": "2021-05-10 13:08:05",
  "description": "Guest User",
  "type": "I",
  "system": "soffid",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1976454",
    "links": {
      "roleAccounts":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+1976454+and+enabled+eq+true",
      "users":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+1976454+or+accounts.account.id+eq+1976454"
    },
    "resourceType": "Account"
  },
  "loginName": "Guest",
  "schemas": [

```

```
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "name": "Guest",
  "inheritNewPermissions": false,
  "managerUsers": [],
  "disabled": false,
  "attributes": {},
  "id": 1976454,
  "managerGroups": [],
  "grantedGroups": [],
  "status": "a",
  "ownerUsers": [
    "admin"
  ],
  "grantedUsers": []
}
```

# Update partial (password update)

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Account/15455
```

## JSON

### Option 1

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "Operations": [
    {
      "op": "replace",
      "path": "password.value",
      "value": "123123"
    },
    {
      "op": "replace",
      "path": "password.expired",

```

```
        "value": false
      }
    ]
  }
}
```

## Option 2

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "Operations": [
    {
      "op": "replace",
      "path": "password",
      "value": {
        "value": "123123",
        "expired": false
      }
    }
  ]
}
```

## Response 200 OK

```
{
  "lastLogin": "2023-06-29 14:30:29",
  "grantedRoles": [],
  "description": "Frankaaa Sinatra",
  "type": "U",
  "ownerGroups": [],
  "loginName": "frank",
  "inheritNewPermissions": false,
  "disabled": false,
  "id": 5366314,
  "managerGroups": [],
  "grantedGroups": [],
  "lastPasswordSet": "2023-06-29 14:30:37",
  "passwordExpiration": "2023-07-24 00:00:00",
  "passwordPolicy": "I",
}
```



```

"accessLevel": "-",
"managerRoles": [],
"created": "2022-04-21 10:11:12",
"hasSnapshot": false,
"system": "soffid",
"ownerRoles": [],
"meta": {
  "location": "http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/5366314",
  "links": {
    "briefAudit":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/Audit?filter=searchIndex+eq+'ACC%235366314'
",
    "roleAccounts":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+5366314+and+enabled+eq+true",
    "users":
"http://demolab.soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+5366314+or+accounts.account.id+eq+5366314"
  },
  "resourceType": "Account"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Account"
],
"name": "frank",
"managerUsers": [],
"lastChange": "2023-06-05 15:05:16",
"attributes": {},
"status": "a",
"ownerUsers": [
  "frank"
],
"grantedUsers": []
}

```

## Update all

This operation replaces all values in the account. For example, we will update the description.

- Note that the attribute id is required to confirm that the resource "...Account/<id>" is the same that the JSON account.
- Note that all the attributes not included in the request will be cleared in the account 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 [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Account/1976454
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "id": 1976454,
  "name": "Guest",
  "type": "I",
  "system": "soffid",
  "passwordPolicy": "I",
  "description": "Guest Guest",
  "inheritNewPermissions": false,
  "disabled": false
}
```

## Response 200 OK

```
{
  "passwordPolicy": "I",
  "grantedRoles": [],
  "managerRoles": [],
  "description": "Guest Guest",
  "type": "I",
  "system": "soffid",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Account/1976454",
    "links": {
```

```
    "roleAccounts":
      "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount?filter=account.id+eq+1976454+and+enabled+eq+true",
      "users":
        "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/User?filter=accountAccess.account.id+eq+1976454+or+accounts.account.id+eq+1976454"
    },
    "resourceType": "Account"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "name": "Guest",
  "inheritNewPermissions": false,
  "managerUsers": [],
  "disabled": false,
  "attributes": {},
  "id": 1976454,
  "managerGroups": [],
  "grantedGroups": [],
  "status": "a",
  "ownerUsers": [],
  "grantedUsers": []
}
```

## Delete

Please note after this delete, the account has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/Account/1976454
```

## Response 204 No Content

```
204 No Content
```

# Note: use of roles with domain values

In case of granting roles with domain values, the optional attribute domain value contains the value for that domain. Here is a sample account with permissions for the role SOFFID\_OU\_DOMAIN and domains D2 and enterprise:

```
{
  "grantedRoles": [],
  "roles": [
    {
      "informationSystemName": "SOFFID",
      "roleName": "SOFFID_OU_MANAGER",
      "id": 2236442,
      "roleDescription": "Business unit manager",
      "domainValue": "D2"
    },
    {
      "informationSystemName": "SOFFID",
      "roleName": "SOFFID_OU_MANAGER",
      "id": 2236447,
      "roleDescription": "Business unit manager",
      "domainValue": "enterprise"
    }
  ],
  "description": "faith - faith MUYOYO",
  "type": {
    "value": "U"
  },
  "lastUpdated": "2019-07-16T10:35:01+02:00",
  "ownerGroups": [],
  "inheritNewPermissions": false,
  "disabled": false,
  "id": 1727122,
  "grantedGroups": [],
  "managerGroups": [],
  "passwordPolicy": "I",
  "managerRoles": [],
  "created": "2019-07-16T10:26:16+02:00",
  "system": "soffid",
}
```

```
"ownerRoles": [],
"meta": {
  "location": "http://bubu-thinkpad:8080/soffid/webservice/scim/Account/1727122",
  "resourceType": "Account"
},
"name": "faith",
"managerUsers": [],
"attributes": {},
"grantedUsers": [],
"ownerUsers": [
  {
    "lastName": "Smith",
    "createdByUser": "csv",
    "mailServer": "null",
    "nationalID": "",
    "multiSession": false,
    "modifiedByUser": "admin",
    "id": 1727113,
    "homeServer": "null",
    "primaryGroupDescription": "Entrprise",
    "primaryGroup": "enterprise",
    "comments": "Loaded from CSV file on Mon Aug 05 22:00:00 CEST 2019",
    "profileServer": "null",
    "active": true,
    "fullName": "faith MUYOYO",
    "userName": "faith",
    "mailAlias": "",
    "firstName": "faith",
    "createdDate": "2019-07-16T10:26:16+02:00",
    "phoneNumber": "",
    "modifiedDate": "2019-12-12T17:06:42+01:00",
    "userType": "I"
  }
]
}
```

## Error response

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

# SCIM Application examples

## Operations

This page shows the operations that can be performed for the application object (Information Systems from a functional point of view)

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "parent": "Operation/Business 2",
      "relativeName": "SOFFID",
      "database": "",
      "bpmEnabled": true,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/41",
        "links": {
          "children":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business 2/SOFFID'",
          "roles":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Busin"
```

ess 2/SOFFID"

```
    },
    "resourceType": "Application"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business 2/SOFFID",
  "description": "SOFFID Identity Manager",
  "singleRole": false,
  "attributes": {},
  "id": 41,
  "type": "application"
},
{
  "parent": "Operation/Business process",
  "relativeName": "ad",
  "database": "ad",
  "bpmEnabled": true,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/391459",
    "links": {
      "children":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business
process/ad'",
      "roles":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Busin
ess process/ad'"
    }
  },
  "resourceType": "Application"
},
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business process/ad",
  "description": "Active Directory",
  "singleRole": false,
  "attributes": {},
  "id": 391459,
```



```
    "type": "application"
  }
]
}
```

## List by filter

List all application 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/Application?filter=description co SOFFID
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "parent": "Operation/Business 2",
      "relativeName": "SOFFID",
      "database": "",
      "bpmEnabled": true,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/41",
        "links": {
          "children":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business 2/SOFFID'",
          "roles":
            "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Busin"
```

ess 2/SOFFID"

```
    },
    "resourceType": "Application"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business 2/SOFFID",
  "description": "SOFFID Identity Manager",
  "singleRole": false,
  "attributes": {},
  "id": 41,
  "type": "application"
},
{
  "parent": "Operation/Business 2",
  "relativeName": "iam.soffid.com",
  "database": "iam.soffid.com",
  "bpmEnabled": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/1836136",
    "links": {
      "children":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business
2/iam.soffid.com'",
      "roles":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Busin
ess 2/iam.soffid.com'"
    }
  },
  "resourceType": "Application"
},
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business 2/iam.soffid.com",
  "description": "Discovered host iam.soffid.com",
  "singleRole": false,
  "attributes": {},
  "id": 1836136,
```

```
    "type": "application"
  }
]
}
```

# Query by id

Retrieve an application by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Application/391459
```

## Response 200 OK

```
{
  "parent": "Operation/Business process",
  "relativeName": "ad",
  "database": "ad",
  "bpmEnabled": true,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/391459",
    "links": {
      "children":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business process/ad'",
      "roles":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Business process/ad'"
    },
    "resourceType": "Application"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business process/ad",
  "description": "Active Directory",
  "singleRole": false,
  "attributes": {},
}
```

```
"id": 391459,  
"type": "application"  
}
```

# Create

To create an application (Information System).

## Request

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

## JSON

```
{  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.Application"  
  ],  
  "parent": "Operation/Business 2",  
  "relativeName": "appBilling",  
  "database": "",  
  "bpmEnabled": false,  
  "name": "Operation/Business 2/App Billing",  
  "description": "Billing application",  
  "singleRole": false,  
  "attributes": {},  
  "type": "application"  
}
```

## Response 201 Created

```
{  
  "parent": "Operation/Business 2",  
  "relativeName": "App Billing",  
  "database": "",  
  "bpmEnabled": false,  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/1976515",  
    "resourceType": "Application"  
  }  
}
```

```
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Application"
],
"name": "Operation/Business 2/App Billing",
"description": "Billing application",
"singleRole": false,
"attributes": {},
"id": 1976515,
"type": "application"
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Application/1976515
```

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "Operations": [
    {
      "op": "replace",
      "path": "parent",
      "value": "Operation/Business process"
    },
    {
      "op": "replace",
      "path": "name",
      "value": "Operation/Business process/App Billing"
    },
    {
      "op": "replace",
      "path": "database",
```

```
    "value": "DDBBBilling"
  }
]
}
```

## Response 200 OK

```
{
  "parent": "Operation/Business process",
  "relativeName": "App Billing",
  "database": "DDBBBilling",
  "bpmEnabled": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/1976515",
    "links": {
      "children":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business process/App Billing'",
      "roles":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Business process/App Billing'"
    },
    "resourceType": "Application"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "name": "Operation/Business process/App Billing",
  "description": "Billing application",
  "singleRole": false,
  "attributes": {},
  "id": 1976515,
  "type": "application"
}
```

## Update all

This operation replaces all values in the application.

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

For more information visit [Resource data model page](#).

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Application/1976515
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Application"
  ],
  "id": 1976515,
  "parent": "Operation/Business 2",
  "relativeName": "appBilling",
  "database": "",
  "bpmEnabled": false,
  "name": "Operation/Business 2/App Billing",
  "description": "Billing application",
  "singleRole": false,
  "attributes": {},
  "type": "application"
}
```

## Response 200 OK

```
{
  "parent": "Operation/Business 2",
  "relativeName": "App Billing",
  "database": "",
  "bpmEnabled": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application/1976515",
    "links": {
      "children":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Application?filter=parent.name+eq+'Operation/Business"
```

```
2/App Billing",
  "roles":
    "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+'Operation/Busin
    ess 2/App Billing"
  },
  "resourceType": "Application"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Application"
],
"name": "Operation/Business 2/App Billing",
"description": "Billing application",
"singleRole": false,
"attributes": {},
"id": 1976515,
"type": "application"
}
```

## Delete

Please note that after this delete action, you will need to create again the application to use it in the next examples.

### Request

```
DELETE http://<your-domain>/webservice/scim2/v1/Application/2236428
```

### 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 Role examples

## Operations

This page shows the operations that can be performed for the role object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "approvalEnd": "2021-02-26 13:19:36",
      "ownedRoles": [
        {
          "informationSystem": "Operation/Business process/ad",
          "ownerRole": 63,
          "ownerRoleDescription": "SOFFID Administrator",
          "roleId": 393195,
          "mandatory": true,
          "enabled": true,
          "ownerSystem": "soffid",
          "system": "ad",
          "meta": {
            "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/RoleGrant/1563461",
```

```
    "resourceType": "RoleGrant"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleGrant"
  ],
  "roleName": "AD role",
  "hasDomain": false,
  "id": 1563461,
  "ownerRoleName": "SOFFID_ADMIN",
  "roleDescription": "AD role",
  "status": "A"
},
{
  "informationSystem": "Operation/Business 2/SOFFID",
  "ownerRole": 63,
  "ownerRoleDescription": "SOFFID Administrator",
  "roleId": 393447,
  "mandatory": true,
  "enabled": true,
  "ownerSystem": "soffid",
  "system": "ad",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/501188",
    "resourceType": "RoleGrant"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleGrant"
  ],
  "roleName": "accounting_mgr",
  "hasDomain": false,
  "id": 501188,
  "ownerRoleName": "SOFFID_ADMIN",
  "roleDescription": "Accounting Manager",
  "status": "A"
},
{
  "informationSystem": "Operation/Business process/ad",
  "ownerRole": 63,
  "ownerRoleDescription": "SOFFID Administrator",
```

```
"roleId": 391535,
"mandatory": true,
"enabled": true,
"ownerSystem": "soffid",
"system": "ad",
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/503759",
  "resourceType": "RoleGrant"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.RoleGrant"
],
"roleName": "g100",
"hasDomain": false,
"id": 503759,
"ownerRoleName": "SOFFID_ADMIN",
"roleDescription": "Desarrollo Circuito",
"status": "A"
},
{
  "informationSystem": "Operation/Business process/ad",
  "ownerRole": 63,
  "ownerRoleDescription": "SOFFID Administrator",
  "roleId": 391480,
  "mandatory": false,
  "enabled": true,
  "ownerSystem": "soffid",
  "system": "ad",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/501481",
    "resourceType": "RoleGrant"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleGrant"
  ],
  "roleName": "Group Policy Creator Owners",
  "hasDomain": false,
  "id": 501481,
  "ownerRoleName": "SOFFID_ADMIN",
```

```
    "roleDescription": "Members in this group can modify group policy for the domain",
    "status": "A"
  }
],
"description": "SOFFID Administrator",
"granteeGroups": [
  {
    "system": "soffid",
    "informationSystem": "Operation/Business 2/SOFFID",
    "roleId": 63,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/503848",
      "resourceType": "RoleGrant"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.api.RoleGrant"
    ],
    "roleName": "SOFFID_ADMIN",
    "ownerGroup": "admingroup",
    "hasDomain": false,
    "id": 503848,
    "roleDescription": "SOFFID Administrator",
    "mandatory": true,
    "enabled": true
  }
],
"informationSystemName": "Operation/Business 2/SOFFID",
"password": false,
"system": "soffid",
"ownerGroups": [
  {
    "organizational": false,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Group/91",
      "resourceType": "Group"
    },
    "quota": "0",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Group"
    ]
  }
]
```

```
    ],
    "name": "admingroup",
    "obsolete": false,
    "description": "Enterprise Administrators Group",
    "parentGroup": "enterprise",
    "attributes": {},
    "id": 91
  }
],
"ownerRoles": [
  {
    "informationSystem": "Operation/Business 2/SOFFID",
    "ownerRole": 392727,
    "ownerRoleDescription": "Business Services",
    "roleId": 63,
    "mandatory": true,
    "enabled": true,
    "ownerSystem": "ad",
    "system": "soffid",
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/501606",
      "resourceType": "RoleGrant"
    },
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleGrant"
  ],
  "roleName": "SOFFID_ADMIN",
  "hasDomain": false,
  "id": 501606,
  "ownerRoleName": "share-15000",
  "roleDescription": "SOFFID Administrator",
  "status": "A"
}
],
"bpmEnabled": true,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/63",
  "resourceType": "Role"
},
```

```

    "schemas": [
      "urn:soffid:com.soffid.iam.api.Role"
    ],
    "name": "SOFFID_ADMIN",
    "approvalStart": "2021-02-26 13:19:36",
    "attributes": {},
    "id": 63,
    "enableByDefault": true
  },
  {
    "ownedRoles": [],
    "description": "Soffid vault owner",
    "granteeGroups": [],
    "informationSystemName": "Operation/Business 2/SOFFID",
    "password": false,
    "system": "soffid",
    "ownerGroups": [],
    "ownerRoles": [],
    "bpmEnabled": true,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/790961",
      "resourceType": "Role"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Role"
    ],
    "name": "SOFFID_OWNER",
    "attributes": {},
    "id": 790961,
    "enableByDefault": false
  },
  .....
]
}

```

## List by filter

List all roles 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/Role?filter=ownerRoles.name eq SOFFID_ADMIN
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "ownedRoles": [],
      "description": "Accounting Manager",
      "granteeGroups": [],
      "informationSystemName": "Operation/Business 2/SOFFID",
      "password": false,
      "system": "ad",
      "ownerGroups": [],
      "ownerRoles": [
        {
          "informationSystem": "Operation/Business 2/SOFFID",
          "ownerRole": 63,
          "ownerRoleDescription": "SOFFID Administrator",
          "roleId": 393447,
          "mandatory": true,
          "enabled": true,
          "ownerSystem": "soffid",
          "system": "ad",
          "meta": {
            "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/501188",
            "resourceType": "RoleGrant"
          },
        },
      ],
      "schemas": [
```



```
        "urn:soffid:com.soffid.iam.api.RoleGrant"
    ],
    "roleName": "accounting_mgr",
    "hasDomain": false,
    "id": 501188,
    "ownerRoleName": "SOFFID_ADMIN",
    "roleDescription": "Accounting Manager",
    "status": "A"
}
],
"bpmEnabled": true,
"meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/393447",
    "resourceType": "Role"
},
"schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
],
"name": "accounting_mgr",
"attributes": {},
"id": 393447,
"enableByDefault": false
},
{
    "ownedRoles": [],
    "description": "Members in this group can modify group policy for the domain",
    "granteeGroups": [],
    "informationSystemName": "Operation/Business process/ad",
    "password": false,
    "system": "ad",
    "ownerGroups": [],
    "ownerRoles": [
        {
            "informationSystem": "Operation/Business process/ad",
            "ownerRole": 63,
            "ownerRoleDescription": "SOFFID Administrator",
            "roleId": 391480,
            "mandatory": false,
            "enabled": true,
```

```

    "ownerSystem": "soffid",
    "system": "ad",
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/501481",
      "resourceType": "RoleGrant"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.api.RoleGrant"
    ],
    "roleName": "Group Policy Creator Owners",
    "hasDomain": false,
    "id": 501481,
    "ownerRoleName": "SOFFID_ADMIN",
    "roleDescription": "Members in this group can modify group policy for the domain",
    "status": "A"
  }
],
"bpmEnabled": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/391480",
  "resourceType": "Role"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Role"
],
"name": "Group Policy Creator Owners",
"attributes": {},
"id": 391480,
"enableByDefault": false
},
.....
]
}

```

## Query by id

Query a role by its id (primary key).

### Request

GET http://<your-domain>/soffid/webservice/scim2/v1/Role/393195

## Response 200 OK

```
{
  "approvalEnd": "2021-02-04 15:39:05",
  "ownedRoles": [],
  "description": "AD role",
  "granteeGroups": [],
  "informationSystemName": "Operation/Business process/ad",
  "password": false,
  "system": "ad",
  "ownerGroups": [],
  "ownerRoles": [
    {
      "informationSystem": "Operation/Business process/ad",
      "ownerRole": 63,
      "ownerRoleDescription": "SOFFID Administrator",
      "roleId": 393195,
      "mandatory": true,
      "enabled": true,
      "ownerSystem": "soffid",
      "system": "ad",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleGrant/1563461",
        "resourceType": "RoleGrant"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.api.RoleGrant"
      ],
      "roleName": "AD role",
      "hasDomain": false,
      "id": 1563461,
      "ownerRoleName": "SOFFID_ADMIN",
      "roleDescription": "AD role",
      "status": "A"
    }
  ],
  "bpmEnabled": true,
```

```
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/393195",
  "resourceType": "Role"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Role"
],
"name": "AD role",
"approvalStart": "2021-02-04 15:39:05",
"attributes": {},
"id": 393195,
"enableByDefault": false
}
```

# Create

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "name": "App Billing Role",
  "description": "Role Admin for Billing application",
  "informationSystemName": "Operation/Business 2/App Billing",
  "system": "test",
  "password": false,
  "bpmEnabled": false,
  "enableByDefault": false,
  "granteeGroups": [],
  "ownedRoles": [],
  "ownerGroups": [],
  "ownerRoles": []
}
```

## Response 201 Created

```
{
  "ownedRoles": [],
  "description": "Role Admin for Billing application",
  "granteeGroups": [],
  "informationSystemName": "Operation/Business 2/App Billing",
  "password": false,
  "system": "test",
  "ownerGroups": [],
  "ownerRoles": [],
  "bpmEnabled": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/1976590",
    "resourceType": "Role"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "name": "App Billing Role",
  "attributes": {},
  "id": 1976590,
  "enableByDefault": false
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Role/1976590
```

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "Operations": [
```

```
{
  "op": "replace",
  "path": "system",
  "value": "soffid"
}
]
```

## Response 200 OK

```
{
  "ownedRoles": [],
  "description": "Role Admin for Billing application",
  "granteeGroups": [],
  "informationSystemName": "Operation/Business 2/App Billing",
  "password": false,
  "system": "soffid",
  "ownerGroups": [],
  "ownerRoles": [],
  "bpmEnabled": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/1976590",
    "resourceType": "Role"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "name": "App Billing Role",
  "attributes": {},
  "id": 1976590,
  "enableByDefault": false
}
```

# Update all

This operation replaces all values in the role.

- Note that the attribute id is required to confirm that the resource "...Role/<id>" is the same that the JSON role.

- Note that all the attributes not included in the request will be cleared in the role and their data will be lost.
- Note that not all the attributes are updatable, for example, tag meta, avoid these tags.

For more information visit [Resource data model page](#)

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "id": 1976590,
  "name": "App Billing",
  "description": "Role Admin for Billing application",
  "informationSystemName": "Operation/Business 2/App Billing",
  "system": "test",
  "password": false,
  "bpmEnabled": false,
  "enableByDefault": false,
  "granteeGroups": [],
  "ownedRoles": [],
  "ownerGroups": [],
  "ownerRoles": []
}
```

## Response 200 OK

```
{
  "ownedRoles": [],
  "description": "Role Admin for Billing application",
  "granteeGroups": [],
  "informationSystemName": "Operation/Business 2/App Billing",
  "password": false,
  "system": "test",
  "ownerGroups": [],
  "ownerRoles": [],
}
```

```
"bpmEnabled": false,  
"meta": {  
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Role/1976590",  
  "resourceType": "Role"  
},  
"schemas": [  
  "urn:soffid:com.soffid.iam.api.Role"  
],  
"name": "App Billing",  
"attributes": {},  
"id": 1976590,  
"enableByDefault": false  
}
```

## Delete

Please note after this delete, the role has to be created again to use it in the next examples.

### Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/Role/1976590
```

### 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>

## Notes



# Note: use of roles with domain values

In case of granting roles with domain values, the optional attribute domain value contains the value for that domain. Here is a sample account with permissions for the role SOFFID\_OU\_DOMAIN and domains D2 and enterprise:

```
{
  "grantedRoles": [],
  "roles": [
    {
      "informationSystemName": "SOFFID",
      "roleName": "SOFFID_OU_MANAGER",
      "id": 2236442,
      "roleDescription": "Business unit manager",
      "domainValue": "D2"
    },
    {
      "informationSystemName": "SOFFID",
      "roleName": "SOFFID_OU_MANAGER",
      "id": 2236447,
      "roleDescription": "Business unit manager",
      "domainValue": "enterprise"
    }
  ],
  "description": "faith - faith MUYOYO",
  "type": {
    "value": "U"
  },
  "lastUpdated": "2019-07-16T10:35:01+02:00",
  "ownerGroups": [],
  "inheritNewPermissions": false,
  "disabled": false,
  "id": 1727122,
  "grantedGroups": [],
  "managerGroups": [],
  "passwordPolicy": "I",
  "managerRoles": [],
  "created": "2019-07-16T10:26:16+02:00",
  "system": "soffid",
}
```

```
"ownerRoles": [],
"meta": {
  "location": "http://bubu-thinkpad:8080/soffid/webservice/scim/Account/1727122",
  "resourceType": "Account"
},
"name": "faith",
"managerUsers": [],
"attributes": {},
"grantedUsers": [],
"ownerUsers": [
  {
    "lastName": "Smith",
    "createdByUser": "csv",
    "mailServer": "null",
    "nationalID": "",
    "multiSession": false,
    "modifiedByUser": "admin",
    "id": 1727113,
    "homeServer": "null",
    "primaryGroupDescription": "Entrprise",
    "primaryGroup": "enterprise",
    "comments": "Loaded from CSV file on Mon Aug 05 22:00:00 CEST 2019",
    "profileServer": "null",
    "active": true,
    "fullName": "faith MUYOYO",
    "userName": "faith",
    "mailAlias": "",
    "firstName": "faith",
    "createdDate": "2019-07-16T10:26:16+02:00",
    "phoneNumber": "",
    "modifiedDate": "2019-12-12T17:06:42+01:00",
    "userType": "I"
  }
]
}
```

## Notes about role domains

By default, roles have no security domain (sometimes referred to as scope). When a security domain is assigned to a role, each account-role object is tagged with the proper security domain value. It is allowed to assign one role multiple times to the same user, as long as each assignment is tagged with a different security domain value. For instance, one can create the SOFFID\_OU\_MANAGER role bound to the GROUPS security domain. Then, you can assign the role SOFFID\_OU\_MANAGER/Group1 to any user.

Four kind of security domains are available:

- SENSE\_DOMAIN: No security domain applies
- GROUP: A business unit is bound to each grant of this role
- APPLICATION: A information system is bound to each grant of this role
- Custom domain: Each application can have its own security domains with arbitrary meanings.

To set or modify the role domain for a role, one can use the "domain" attribute. This attribute is a complex object composed of a name and a description. Only the name is mandatory.

## Notes about role inheritance

Role inheritance is driven by the ownedRoles, ownerRoles and ownedGroups. Each of these attributes is an array of grants. Each grant has the following attributes:

- ownerRole: id of owner role.
- ownerSystem: name of owner role's system.
- ownerRoleName: name of owner role's name.
- ownerRolDomainValue: security domain of the owner role. If a user is granted with the owner role, and the ownerRolDomainValue does not match the grant domain, the inheritance rule does not apply.
- roleId: id of owned role.
- system: name of owned role's system
- roleName: name of owned role's name
- domainValue: security domain of the owned role.

The role inheritance can vary slightly depending on whether the owned role and the owner role are in the same domain or not:

Resulting domain value	Owner role has no domain	Owner role has a different domain	Same domain
Domain value not specified	Blank	Blank	Owner role domain value
Domain value specified	Specified value	Specified value	Specified value



# SCIM Group type examples

## Operations

This page shows the operations that can be performed for the Group Type object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "roleHolder": false,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/504761",
        "resourceType": "OUType"
      },
      "schemas": [
        "urn:soffid:com:soffid:iam:api:OUType"
      ],
      "name": "CC",
      "description": "Cost Center",
      "id": 504761
    },
    {
```

```
"roleHolder": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/504762",
  "resourceType": "OUType"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.OUType"
],
"name": "PC",
"description": "Productive center",
"id": 504762
}
]
}
```

## List by filter

List all group types 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/OUType?filter=description co Cost
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "roleHolder": false,
      "meta": {
```

```
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/504761",
    "resourceType": "OUType"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "name": "CC",
  "description": "Cost Center",
  "id": 504761
}
]
```

## Query by id

Query a group type by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/OUType/504761
```

### Response 200 OK

```
{
  "roleHolder": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/504761",
    "resourceType": "OUType"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "name": "CC",
  "description": "Cost Center",
  "id": 504761
}
```

## Create

# Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Role"
  ],
  "name": "App Billing Role",
  "description": "Role Admin for Billing application",
  "informationSystemName": "Operation/Business 2/App Billing",
  "system": "test",
  "password": false,
  "bpmEnabled": false,
  "enableByDefault": false,
  "granteeGroups": [],
  "ownedRoles": [],
  "ownerGroups": [],
  "ownerRoles": []
}
```

## Response 201 Created

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "name": "NewOU",
  "description": "New OU"
}
```

# Update partial

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

## Request

PATCH http://<your-domain>/soffid/webservice/scim2/v1/OUType/1976710



## JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "name",
      "value": "OU"
    }
  ]
}
```

## Response 200 OK

```
{
  "roleHolder": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/1976710",
    "resourceType": "OUType"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "name": "OU",
  "description": "New OU",
  "id": 1976710
}
```

# Update all

This operation replaces all values in the group type.

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

For more information visit [Resource data model page](#)

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "id": 1976710,
  "name": "ChangeOU"
}
```

## Response 200 OK

```
{
  "roleHolder": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OUType/1976710",
    "resourceType": "OUType"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "name": "ChangeOU",
  "id": 1976710
}
```

# Delete

Please note after this delete, the group type has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/OUType/1976710
```

## 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 User type examples

## Operations

This page shows the operations that can be performed for the user type object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/29",
        "resourceType": "UserType"
      },
      "unmanaged": false,
      "schemas": [
        "urn:soffid:com:soffid:iam:api:UserType"
      ],
      "name": "S",
      "description": "SSO account (USE IT)",
      "id": 29
    },
    {
```

```

    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/31",
      "resourceType": "UserType"
    },
    "unmanaged": false,
    "schemas": [
      "urn:soffid:com.soffid.iam.api.UserType"
    ],
    "name": "E",
    "description": "External user",
    "id": 31
  },
  {
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/33",
      "resourceType": "UserType"
    },
    "unmanaged": false,
    "schemas": [
      "urn:soffid:com.soffid.iam.api.UserType"
    ],
    "name": "I",
    "description": "Internal user",
    "id": 33
  }
]
}

```

## List by filter

List all user types 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/UserType?filter=description co sso
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/29",
        "resourceType": "UserType"
      },
      "unmanaged": false,
      "schemas": [
        "urn:soffid:com:soffid:iam:api:UserType"
      ],
      "name": "S",
      "description": "SSO account (USE IT)",
      "id": 29
    }
  ]
}
```

## Query by id

Query a user type by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/UserType/33
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/33",
    "resourceType": "UserType"
  }
}
```

```
},
"unmanaged": false,
"schemas": [
  "urn:soffid:com.soffid.iam.api.UserType"
],
"name": "I",
"description": "Internal user",
"id": 33
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.UserType"
  ],
  "name": "O",
  "description": "Other user",
  "unmanaged": false
}
```

## Response 201 Created

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/1976718",
    "resourceType": "UserType"
  },
  "unmanaged": false,
  "schemas": [
    "urn:soffid:com.soffid.iam.api.UserType"
  ],
  "name": "O",
```

```
"description": "Other user",  
"id": 1976718  
}
```

# Update partial

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

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/UserType/1976718
```

## JSON

```
{  
  "Operations": [  
    {  
      "op": "replace",  
      "path": "name",  
      "value": "OT"  
    }  
  ]  
}
```

## Response 200 OK

```
{  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/1976718",  
    "resourceType": "UserType"  
  },  
  "unmanaged": false,  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.UserType"  
  ],  
  "name": "OT",  
  "description": "Other user",  
  "id": 1976718  
}
```



# Update all

This operation replaces all values in the roole.

- Note that the attribute id is required to confirm that the resource "...UserType/<id>" is the same that the JSON user type.
- Note that all the attributes not included in the request will be cleared in the user type 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 [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/UserType/1976718
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.OUType"
  ],
  "id": 1975535,
  "name": "OY"
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/UserType/1976718",
    "resourceType": "UserType"
  },
  "unmanaged": false,
  "schemas": [
    "urn:soffid:com.soffid.iam.api.UserType"
  ],
  "name": "OY",
  "id": 1976718
}
```

# Delete

Please note after this delete, the user type has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/UserType/1976718
```

## 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 GroupUser examples

## Operations

This page shows the operations that can be performed for the object that establishes the relationship between groups and users. You can add, delete and or modify users in a group.

## List all

### Request

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

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 25,
  "startIndex": 1,
  "Resources": [
    {
      "groupDescription": "Enterprise",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/480412",
        "resourceType": "GroupUser"
      },
      "schemas": [
        "urn:soffid:com:soffid:iam:api:GroupUser"
      ],
      "start": "2020-07-02 12:14:48",
      "fullName": "test User",
      "disabled": false,
      "attributes": {},
    }
  ]
}
```

```
"id": 480412,
"user": "test2",
"primaryGroup": false,
"group": "enterprise"
},
{
  "groupDescription": "World Modified",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/503629",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2020-08-06 15:52:12",
  "fullName": "test User",
  "end": "2021-02-26 13:05:44",
  "disabled": true,
  "attributes": {},
  "id": 503629,
  "user": "test2",
  "primaryGroup": false,
  "group": "world2"
},
{
  "groupDescription": "Enterprise Administrators Group",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1182887",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2020-12-31 16:48:58",
  "fullName": "John Smith",
  "disabled": false,
  "attributes": {
    "comments": "This is a test",
    "startDate": "2021-01-01 00:00:00"
```

```

    },
    "id": 1182887,
    "user": "jsmith",
    "primaryGroup": false,
    "group": "admingroup"
  },
  .....
]
}

```

## List by filter

List all GroupUsers 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/GroupUser?filter=groupDescription eq "Help desk support team"
```

### Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 15,
  "startIndex": 1,
  "Resources": [
    {
      "groupDescription": "Help desk support team",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1519688",
        "resourceType": "GroupUser"
      },
      "schemas": [

```

```
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2021-02-20 17:59:15",
  "fullName": "Dilbert ADAMS .",
  "end": "2021-03-12 10:38:42",
  "disabled": true,
  "attributes": {
    "comments": "Comments",
    "startDate": "2021-02-20 00:00:00"
  },
  "id": 1519688,
  "user": "dilbert",
  "primaryGroup": false,
  "group": "it"
},
{
  "groupDescription": "Help desk support team",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1974296",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2021-05-05 12:49:51",
  "fullName": "John Smith",
  "disabled": false,
  "attributes": {
    "startDate": "2021-05-04 00:00:00"
  },
  "id": 1974296,
  "user": "jsmith",
  "primaryGroup": false,
  "group": "it"
},
.....
]
```

```
}
```

# Query by id

Query a GroupUser by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1974296
```

## Response 200 OK

```
{
  "groupDescription": "Help desk support team",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1974296",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2021-05-05 12:49:51",
  "fullName": "John Smith",
  "disabled": false,
  "attributes": {
    "startDate": "2021-05-04 00:00:00"
  },
  "id": 1974296,
  "user": "jsmith",
  "primaryGroup": false,
  "group": "it"
}
```

# Create

This option allows you to add a user to a specific group.

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "group": "it",
  "groupDescription": "Help desk support team",
  "user": "ckelp",
  "fullName": "Casey Kelp",
  "primaryGroup": true,
  "attributes": {}
}
```

## Response 201 Created

```
{
  "groupDescription": "Help desk support team",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1976741",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2021-05-11 10:39:23",
  "fullName": "Casey Kelp",
  "disabled": false,
  "attributes": {},
  "id": 1976741,
  "user": "ckelp",
  "primaryGroup": true,
  "group": "it"
}
```

## Update partial

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

## Request



PATCH http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1976741

## JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "groupDescription",
      "value": "Enterprise engineering team"
    },
    {
      "op": "replace",
      "path": "group",
      "value": "EngineeringTeam"
    }
  ]
}
```

## Response 200 OK

```
{
  "groupDescription": "Enterprise engineering team",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1976741",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "start": "2021-05-11 10:39:23",
  "fullName": "Casey Kelp",
  "disabled": false,
  "attributes": {},
  "id": 1976741,
  "user": "ckelp",
  "primaryGroup": true,
  "group": "EngineeringTeam"
}
```

# Update all

This operation replaces all values in the GroupUser.

- Note that the attribute id is required to confirm that the resource "...GroupUser/<id>" is the same as the JSON GroupUser.
- Note that all the attributes not included in the request will be cleared in the GroupUser type 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 [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1976741
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "id": 1976741,
  "group": "it",
  "groupDescription": "Help desk support team",
  "user": "ckelp",
  "fullName": "Casey Kelp",
  "primaryGroup": true,
  "attributes": {}
}
```

## Response 200 OK

```
{
  "groupDescription": "Help desk support team",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/GroupUser/1976741",
    "resourceType": "GroupUser"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ]
}
```

```
],
"fullName": "Casey Kelp",
"disabled": false,
"attributes": {},
"id": 1976741,
"user": "ckelp",
"primaryGroup": true,
"group": "it"
}
```

## Delete

This option allows you to remove a user from a specific group.

Please note after this delete, the group user has to be created again to use it in the next examples.

### Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/GroupUser/1976741
```

### 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 RoleAccount examples

## Operations

This page shows the operations that can be performed for the object that establishes the relationship between roles and accounts. You can assign, revoke and or modify roles to an account.

## List all

### Request

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

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3530,
  "startIndex": 1,
  "itemsPerPage": 100,
  "Resources": [
    {
      "certificationDate": "2020-02-13 23:01:44",
      "accountSystem": "soffid",
      "accountName": "admin",
      "userGroupCode": "admingroup",
      "approvalPending": false,
      "userFullName": "Soffid Administrator",
      "bpmEnforced": "S",
      "userCode": "admin",
      "enabled": true,
      "accountId": 103,
      "informationSystemName": "Operation/Business 2/SOFFID",
    }
  ]
}
```

```
"system": "soffid",
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/110",
  "resourceType": "RoleAccount"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.RoleAccount"
],
"roleName": "SOFFID_ADMIN",
"removalPending": false,
"id": 110,
"roleDescription": "SOFFID Administrator",
"startDate": "2020-02-13 12:00:00"
},
{
  "certificationDate": "2020-12-15 10:48:44",
  "accountSystem": "soffid",
  "accountName": "admin",
  "userGroupCode": "admingroup",
  "approvalPending": false,
  "userFullName": "Soffid Administrator",
  "bpmEnforced": "N",
  "userCode": "admin",
  "ruleDescription": "Grants soffid user role to everyone",
  "enabled": true,
  "accountId": 103,
  "informationSystemName": "Operation/Business 2/SOFFID",
  "system": "soffid",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/1059370",
    "resourceType": "RoleAccount"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleAccount"
  ],
  "roleName": "SOFFID_USER",
  "removalPending": false,
  "id": 1059370,
  "ruleId": 1059365,
```

```
    "roleDescription": "Soffid user",
    "startDate": "2020-12-15 00:00:00"
  },
  .....
]
}
```

## List by filter

List all RoleAccounts 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/soffid/webservice/scim2/v1/RoleAccount?filter=enabled eq true and system eq soffid
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 67,
  "startIndex": 1,
  "Resources": [
    {
      "certificationDate": "2020-02-13 23:01:44",
      "accountSystem": "soffid",
      "accountName": "admin",
      "userGroupCode": "admingroup",
      "approvalPending": false,
      "userFullName": "Soffid Administrator",
      "bpmEnforced": "S",
      "userCode": "admin",
      "enabled": true,

```

```
"accountId": 103,
"informationSystemName": "Operation/Business 2/SOFFID",
"system": "soffid",
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/110",
  "resourceType": "RoleAccount"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.RoleAccount"
],
"roleName": "SOFFID_ADMIN",
"removalPending": false,
"id": 110,
"roleDescription": "SOFFID Administrator",
"startDate": "2020-02-13 12:00:00"
},
{
  "certificationDate": "2020-12-13 19:30:51",
  "accountSystem": "soffid",
  "accountName": "gbuades",
  "userGroupCode": "enterprise",
  "approvalPending": false,
  "userFullName": "Gabriel Buades ..",
  "bpmEnforced": "S",
  "userCode": "gbuades",
  "enabled": true,
  "accountId": 1039860,
  "informationSystemName": "Operation/Business 2/SOFFID",
  "system": "soffid",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/1039866",
    "resourceType": "RoleAccount"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleAccount"
  ],
  "roleName": "SOFFID_ADMIN",
  "removalPending": false,
  "id": 1039866,
```

```
    "roleDescription": "SOFFID Administrator",
    "startDate": "2020-12-13 12:00:00"
  },
  .....
]
}
```

## Query by id

Query a RoleAccount by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/RoleAccount/110
```

### Response 200 OK

```
{
  "certificationDate": "2020-02-13 23:01:44",
  "accountSystem": "soffid",
  "accountName": "admin",
  "userGroupCode": "admingroup",
  "approvalPending": false,
  "userFullName": "Soffid Administrator",
  "bpmEnforced": "S",
  "userCode": "admin",
  "enabled": true,
  "accountId": 103,
  "informationSystemName": "Operation/Business 2/SOFFID",
  "system": "soffid",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/110",
    "resourceType": "RoleAccount"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.RoleAccount"
  ],
  "roleName": "SOFFID_ADMIN",
  "removalPending": false,
```



```
"id": 110,  
"roleDescription": "SOFFID Administrator",  
"startDate": "2020-02-13 12:00:00"  
}
```

# Create

This option allows you to assign a role to a specific account.

## Request

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

### JSON

```
{  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.RoleAccount"  
  ],  
  "accountName": "ckelp",  
  "userFullName": "Casey Kelp",  
  "informationSystemName": "Operation/Business 2/SOFFID",  
  "system": "soffid",  
  "roleName": "SOFFID_ADMIN",  
  "roleDescription": "SOFFID Administrator",  
  "bpmEnforced": "N",  
  "enabled": true,  
  "approvalPending": false,  
  "certificationDate": "2021-05-10 12:00:00",  
  "startDate": "2021-05-10 12:00:00"  
}
```

## Response 201 Created

```
{  
  "certificationDate": "2021-05-12 07:20:36",  
  "accountSystem": "soffid",  
  "accountName": "ckelp",  
  "userGroupCode": "it",  
  "approvalPending": false,
```

```
"userFullName": "Casey Kelp",
"bpmEnforced": "S",
"userCode": "ckelp",
"enabled": true,
"accountId": 1976677,
"informationSystemName": "Operation/Business 2/SOFFID",
"system": "soffid",
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/RoleAccount/1976862",
  "resourceType": "RoleAccount"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.RoleAccount"
],
"roleName": "SOFFID_ADMIN",
"removalPending": false,
"id": 1976862,
"roleDescription": "SOFFID Administrator",
"startDate": "2021-05-10 12:00:00"
}
```

## Delete

This option allows you to revoke a role to a specific account.

“ If you have installed the **User snapshot backup addon** when you delete a RoleAccount, it will be disabled, but never deleted from the database. If you do not have installed the **User snapshot backup addon**, when you delete the RoleAccount, it will be deleted from the database.

Please note after this delete, the RoleAccount has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/RoleAccount/1976862
```

## 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 Host examples

## Operations

This page shows the operations that can be performed for the host object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 12,
  "startIndex": 1,
  "Resources": [
    {
      "serialNumber": "soffid.bubu.lab:192.168.133.1",
      "os": "ALT",
      "mail": false,
      "ip": "192.168.133.1",
      "dynamicIp": true,
      "description": "Autocreated on 12/13/20 6:49:34 PM",
      "office": false,
      "lastSeen": "2020-12-13 18:49:34",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1039055",
        "resourceType": "Host"
      },
      "networkCode": "internal",
    }
  ]
}
```

```

    "schemas": [
      "urn:soffid:com.soffid.iam.api.Host"
    ],
    "name": "soffid.bubu.lab",
    "id": 1039055,
    "hostAlias": [],
    "printersServer": false
  },
  {
    "os": "ALT",
    "mail": false,
    "ip": "10.129.120.4",
    "dynamicIp": false,
    "description": "Discovered host iam.soffid.com",
    "office": false,
    "lastSeen": "2021-04-05 20:06:19",
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1793093",
      "resourceType": "Host"
    },
    "networkCode": "lab1",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Host"
    ],
    "name": "iam.soffid.com",
    "id": 1793093,
    "hostAlias": [],
    "printersServer": false
  },
  .....
]
}

```

## List by filter

List all Hosts 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/Host?filter=os eq LIN and name co archiva
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "os": "LIN",
      "mail": false,
      "ip": "10.129.120.2",
      "dynamicIp": false,
      "description": "Discovered host archiva.dev.lab",
      "office": false,
      "lastSeen": "2021-04-05 20:04:49",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1793026",
        "resourceType": "Host"
      },
      "networkCode": "lab1",
      "schemas": [
        "urn:soffid:com:soffid:iam:api:Host"
      ],
      "name": "archiva.dev.lab",
      "id": 1793026,
      "hostAlias": [],
      "printersServer": false
    }
  ]
}
```

# Query by id

Query a Host by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Host/1793093
```

## Response 200 OK

```
{
  "os": "ALT",
  "mail": false,
  "ip": "10.129.120.4",
  "dynamicIp": false,
  "description": "Discovered host iam.soffid.com",
  "office": false,
  "lastSeen": "2021-04-05 20:06:19",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1793093",
    "resourceType": "Host"
  },
  "networkCode": "lab1",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Host"
  ],
  "name": "iam.soffid.com",
  "id": 1793093,
  "hostAlias": [],
  "printersServer": false
}
```

# Create

## Request

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

**JSON**

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Host"
  ],
  "name": "billing.dev.lab",
  "description": "Host billing.dev.lab",
  "os": "LIN",
  "mail": false,
  "dynamicIp": false,
  "networkCode": "internal",
  "hostAlias": [
    "aliasHost_1",
    "aliasHost_2"
  ],
  "serialNumber": "123456789",
  "printersServer": false
}
```

## Response 201 Created

```
{
  "serialNumber": "123456789",
  "os": "LIN",
  "mail": false,
  "dynamicIp": false,
  "description": "Host billing.dev.lab",
  "office": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1976899",
    "resourceType": "Host"
  },
  "networkCode": "internal",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Host"
  ],
  "name": "billing.dev.lab",
  "id": 1976899,
  "hostAlias": [
    "aliasHost_1",
```



```
"aliasHost_2"
],
"printersServer": false
}
```

# Update partial

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

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Host/1976899
```

## JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "networkCode",
      "value": "Lab1"
    },
    {
      "op": "add",
      "path": "hostAlias",
      "value": [
        "aliasHost_3",
        "aliasHost_4"
      ]
    }
  ]
}
```

## Response 200 OK

```
{
  "serialNumber": "123456789",
  "os": "LIN",
  "mail": false,
```

```
"dynamicIp": false,
"description": "Host billing.dev.lab",
"office": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1976899",
  "resourceType": "Host"
},
"networkCode": "Lab1",
"schemas": [
  "urn:soffid:com.soffid.iam.api.Host"
],
"name": "billing.dev.lab",
"id": 1976899,
"hostAlias": [
  "aliasHost_1",
  "aliasHost_2",
  "aliasHost_3",
  "aliasHost_4"
],
"printersServer": false
}
```

## Update all

This operation replaces all values in the Hosts.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Host/1976899
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Host"
  ],
  "id": 1976899,
  "name": "billing.dev.lab",
  "description": "Host billing.dev.lab",
  "os": "LIN",
  "mail": false,
  "dynamiclp": false,
  "networkCode": "internal",
  "printersServer": false
}
```

## Response 200 OK

```
{
  "os": "LIN",
  "mail": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Host/1976899",
    "resourceType": "Host"
  },
  "networkCode": "internal",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Host"
  ],
  "name": "billing.dev.lab",
  "dynamiclp": false,
  "description": "Host billing.dev.lab",
  "id": 1976899,
  "hostAlias": [],
  "printersServer": false
}
```

## Delete

Please note after this delete, the host has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/web service/scim2/v1/Host/1976899
```

## 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 MailDomain examples

## Operations

This page shows the operations that can be performed for the MailDomain object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/523263",
        "resourceType": "MailDomain"
      },
      "schemas": [
        "urn:soffid:com:soffid.iam.api.MailDomain"
      ],
      "name": "soffid.com",
      "obsolete": false,
      "description": "Soffid",
      "id": 523263
    },
    {
```

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/523265",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "soffid.org",
  "obsolete": false,
  "description": "Old Domain",
  "id": 523265
}
]
```

## List by filter

List all Mail domain 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/MailDomain?filter=obsolete eq false and description co
old
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
```

```
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/523265",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "soffid.org",
  "obsolete": false,
  "description": "Old Domain",
  "id": 523265
}
]
```

## Query by id

Query a Mail Domain by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/MailDomain/523263
```

### Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/523263",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "soffid.com",
  "obsolete": false,
  "description": "Soffid",
  "id": 523263
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "newdomain.com",
  "obsolete": false,
  "description": "New Domain"
}
```

## Response 201 Created

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/1976941",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "newdomain.com",
  "obsolete": false,
  "description": "New Domain",
  "id": 1976941
}
```

# Update partial

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

## Request



```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/MailDomain/1976941
```

## JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "description",
      "value": "New domain (xxx)"
    },
    {
      "op": "replace",
      "path": "obsolete",
      "value": "true"
    }
  ]
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/1976941",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "newdomain.com",
  "obsolete": true,
  "description": "New domain (xxx)",
  "id": 1976941
}
```

# Update all

This operation replaces all values in the Mail Domain.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/MailDomain/1976941
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "id": 1976941,
  "name": "newdomain.com",
  "obsolete": false,
  "description": "New Domain"
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailDomain/1976941",
    "resourceType": "MailDomain"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailDomain"
  ],
  "name": "newdomain.com",
  "obsolete": false,
  "description": "New Domain",
  "id": 1976941
}
```

## Delete



Please note after this delete, the mail domain has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/MailDomain/1976941
```

## 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 MailList examples

## Operations

This page shows the operations that can be performed for the MailList object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "groupMembers": [],
      "usersList": [
        "admin",
        "test2"
      ],
      "description": "Test email",
      "externalList": [],
      "explodedUsersList": [
        "test2",
        "admin"
      ],
      "roleMembers": [],
      "lists": [
```

```

        "test@soffid.com"
    ],
    "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/524071",
        "resourceType": "MailList"
    },
    "domainName": "soffid.com",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.MailList"
    ],
    "name": "test",
    "attributes": {},
    "id": 524071,
    "listsBelong": "test@soffid.com"
},
{
    "groupMembers": [],
    "usersList": [],
    "externalList": [],
    "explodedUsersList": [],
    "roleMembers": [],
    "lists": [],
    "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/1976100",
        "resourceType": "MailList"
    },
    "domainName": "soffid.org",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.MailList"
    ],
    "name": "mailList",
    "attributes": {},
    "id": 1976100,
    "listsBelong": ""
},
.....
]
}

```

# List by filter

List all MailList 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/MailList?filter=description co test
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "groupMembers": [],
      "usersList": [
        "admin",
        "test2"
      ],
      "description": "Test email",
      "externalList": [],
      "explodedUsersList": [
        "test2",
        "admin"
      ],
      "roleMembers": [],
      "lists": [
        "test@soffid.com"
      ],
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/524071",
```

```
    "resourceType": "MailList"
  },
  "domainName": "soffid.com",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "test",
  "attributes": {},
  "id": 524071,
  "listsBelong": "test@soffid.com"
},
{
  "groupMembers": [],
  "usersList": [
    "dilbert",
    "admin"
  ],
  "description": "Test email mailList",
  "externalList": [],
  "explodedUsersList": [
    "dilbert",
    "admin"
  ],
  "roleMembers": [],
  "lists": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/1976181",
    "resourceType": "MailList"
  },
  "domainName": "soffid.com",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "mailList2",
  "attributes": {},
  "id": 1976181,
  "listsBelong": ""
}
]
```

```
}
```

# Query by id

Query a MailList by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/MailList/524071
```

## Response 200 OK

```
{
  "groupMembers": [],
  "usersList": [
    "admin",
    "test2"
  ],
  "description": "Test email",
  "externalList": [],
  "explodedUsersList": [
    "test2",
    "admin"
  ],
  "roleMembers": [],
  "lists": [
    "test@soffid.com"
  ],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/524071",
    "resourceType": "MailList"
  },
  "domainName": "soffid.com",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "test",
  "attributes": {},
  "id": 524071,
```



```
"listsBelong": "test@soffid.com"
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "billingMailList",
  "domainName": "newdomain.com",
  "description": "Test email mailList",
  "usersList": [
    "admin",
    "dilbert"
  ]
}
```

## Response 201 Created

```
{
  "groupMembers": [],
  "usersList": [
    "dilbert",
    "admin"
  ],
  "description": "Test email mailList",
  "externalList": [],
  "explodedUsersList": [
    "dilbert",
    "admin"
  ],
  "roleMembers": [],
}
```

```
"lists": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/1976957",
  "resourceType": "MailList"
},
"domainName": "newdomain.com",
"schemas": [
  "urn:soffid:com.soffid.iam.api.MailList"
],
"name": "billingMailList",
"attributes": {},
"id": 1976957,
"listsBelong": ""
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1976741
```

### JSON

```
{
  "Operations": [
    {
      "op": "remove",
      "path": "usersList",
      "value": [
        "admin",
        "dilbert"
      ]
    }
  ]
}
```

### Response 200 OK

```
{
  "groupMembers": [],
  "description": "Test email mailList",
  "externalList": [],
  "explodedUsersList": [
    "dilbert",
    "admin"
  ],
  "roleMembers": [],
  "lists": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/1976957",
    "resourceType": "MailList"
  },
  "domainName": "newdomain.com",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "billingMailList",
  "attributes": {},
  "id": 1976957,
  "listsBelong": ""
}
```

## Update all

This operation replaces all values in the MailList.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/MailList/1976957
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "id": 1976957,
  "name": "mailList",
  "domainName": "newdomain.com"
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/MailList/1976957",
    "resourceType": "MailList"
  },
  "domainName": "newdomain.com",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.MailList"
  ],
  "name": "mailList",
  "attributes": {},
  "id": 1976957
}
```

# Delete

Please note after this delete, the mail list has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/MailList/1976957
```

## 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 Network examples

## Operations

This page shows the operations that can be performed for the Network object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 6,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/67",
        "resourceType": "Network"
      },
      "ip": "127.0.0.0",
      "lanAccess": false,
      "schemas": [
        "urn:soffid:com.soffid.iam.api.Network"
      ],
      "name": "loopback",
      "description": "Description",
      "id": 67,
      "mask": "255.255.255.128",
```

```

      "dhcpSupport": false
    },
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/505167",
        "resourceType": "Network"
      },
      "ip": "172.0.0.0",
      "lanAccess": false,
      "schemas": [
        "urn:soffid:com.soffid.iam.api.Network"
      ],
      "name": "int1",
      "description": "Internal network 1",
      "id": 505167,
      "mask": "255.240.0.0",
      "dhcpSupport": false
    },
    .....
  ]
}

```

## List by filter

List all Networks 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/Network?filter=description co labora
```

## Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ]
}

```

```
],
"totalResults": 3,
"startIndex": 1,
"Resources": [
  {
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1790267",
      "resourceType": "Network"
    },
    "ip": "10.129.120.0",
    "lanAccess": false,
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Network"
    ],
    "name": "lab1",
    "description": "Laboratory network 1",
    "id": 1790267,
    "mask": "255.255.255.0",
    "dhcpSupport": false
  },
  {
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1790319",
      "resourceType": "Network"
    },
    "ip": "10.129.121.0",
    "lanAccess": false,
    "schemas": [
      "urn:soffid:com.soffid.iam.api.Network"
    ],
    "name": "lab2",
    "description": "Laboratory network 2",
    "id": 1790319,
    "mask": "255.255.255.0",
    "dhcpSupport": false
  },
  {
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1858961",
```



```
    "resourceType": "Network"
  },
  "ip": "10.129.122.0",
  "lanAccess": true,
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Network"
  ],
  "name": "lab3",
  "description": "Laboratory network",
  "id": 1858961,
  "mask": "255.255.255.0",
  "dhcpSupport": false
}
]
```

## Query by id

Query a Network by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Network/1038187
```

### Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1038187",
    "resourceType": "Network"
  },
  "ip": "192.168.133.0",
  "lanAccess": true,
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Network"
  ],
  "name": "internal",
  "description": "Internal Network",
  "loginRestriction": false,
```

```
"id": 1038187,  
"mask": "255.255.255.0",  
"dhcpSupport": true  
}
```

# Create

## Request

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

### JSON

```
{  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.Network"  
  ],  
  "name": "Laboratory",  
  "description": "Laboratory Network",  
  "ip": "192.168.123.0",  
  "mask": "255.255.255.0",  
  "loginRestriction": false,  
  "lanAccess": true,  
  "dhcpSupport": true  
}
```

## Response 201 Created

```
{  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1977114",  
    "resourceType": "Network"  
  },  
  "ip": "192.168.123.0",  
  "lanAccess": true,  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.Network"  
  ],  
  "name": "Laboratory",  
}
```

```
"description": "Laboratory Network",
"loginRestriction": false,
"id": 1977114,
"mask": "255.255.255.0",
"dhcpSupport": true
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/Network/1977114
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "ip",
      "value": "192.168.125.0"
    }
  ]
}
```

### Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1977114",
    "resourceType": "Network"
  },
  "ip": "192.168.123.0",
  "lanAccess": true,
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Network"
  ],
}
```

```
"name": "Laboratory",
"description": "Laboratory Network",
"loginRestriction": false,
"id": 1977114,
"mask": "255.255.255.0",
"dhcpSupport": true
}
```

## Update all

This operation replaces all values in the Network.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Network/1977114
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Network"
  ],
  "id": 1977114,
  "name": "Laboratory",
  "ip": "192.168.123.0",
  "mask": "255.255.255.0"
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/Network/1977114",
  }
}
```

```
    "resourceType": "Network"
  },
  "ip": "192.168.123.0",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Network"
  ],
  "name": "Laboratory",
  "id": 1977114,
  "mask": "255.255.255.0",
  "dhcpSupport": false
}
```

## Delete

Please note after this delete, the network has to be created again to use it in the next examples.

### Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/Network/1977114
```

### 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 DomainValue examples

## Operations

This page shows the operations that can be performed for the DomainValue object. The DomainValue is related to Information Systems.

“ Role scope or domains are properties that can be assigned to some entitlements, limiting the scope of that entitlement. This can be used to limit, for instance, the maximum amount allowed for a money transfer, or the commercial zones to manage.

## List all

### Request

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

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/499623",
```

```

        "resourceType": "DomainValue"
    },
    "domainName": "Zone",
    "externalCodeDomain": "Operation",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.DomainValue"
    ],
    "description": "Twenty",
    "id": 499623,
    "value": "20"
},
{
    "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/499629",
        "resourceType": "DomainValue"
    },
    "domainName": "Zone",
    "externalCodeDomain": "Operation",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.DomainValue"
    ],
    "description": "Eleven",
    "id": 499629,
    "value": "10"
},
.....
]
}

```

## List by filter

List all DomainValues 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/DomainValue?filter=description co Tw
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/499623",
        "resourceType": "DomainValue"
      },
      "domainName": "Zone",
      "externalCodeDomain": "Operation",
      "schemas": [
        "urn:soffid:com.soffid.iam.api.DomainValue"
      ],
      "description": "Twenty",
      "id": 499623,
      "value": "20"
    }
  ]
}
```

## Query by id

Query a DomainValue by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/DomainValue/802012
```

## Response 200 OK



```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/802012",
    "resourceType": "DomainValue"
  },
  "domainName": "Company",
  "externalCodeDomain": "Operation/Business 2/SOFFID",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.DomainValue"
  ],
  "description": "Soffid",
  "id": 802012,
  "value": "Soffid"
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.DomainValue"
  ],
  "domainName": "Company",
  "externalCodeDomain": "Operation/Business 2/SOFFID",
  "description": "bubble",
  "value": "bubble"
}
```

## Response 201 Created

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/1977131",
    "resourceType": "DomainValue"
  }
}
```

```
{
  "domainName": "Company",
  "externalCodeDomain": "Operation/Business 2/SOFFID",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.DomainValue"
  ],
  "description": "bubble",
  "id": 1977131,
  "value": "bubble"
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1976741
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "description",
      "value": "Bubble description"
    }
  ]
}
```

### Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/DomainValue/1977131",
    "resourceType": "DomainValue"
  },
  "domainName": "Company",
}
```

```
"externalCodeDomain": "Operation/Business 2/SOFFID",
"schemas": [
  "urn:soffid:com.soffid.iam.api.DomainValue"
],
"description": "Bubble description",
"id": 1977131,
"value": "bubble"
}
```

## Update all

This operation replaces all values in the DomainValue.

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

For more information visit the [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/DomainValue/1977131
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.GroupUser"
  ],
  "id": 1976741,
  "group": "it",
  "groupDescription": "Help desk support team",
  "user": "ckelp",
  "fullName": "Casey Kelp",
  "primaryGroup": true,
  "attributes": {}
}
```

## Response 200 OK

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.DomainValue"
  ],
  "id": 1977131,
  "domainName": "Company",
  "externalCodeDomain": "Operation/Business 2/SOFFID",
  "description": "New bubble",
  "value": "Newbubble"
}
```

## Delete

Please note after this delete, the DomainValue has to be created again to use it in the next examples.

### Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/DomainValue/1977131
```

### 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 VaultFolder examples

## Operations

This page shows the operations that can be performed for the VaultFolder object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "grantedRoles": [],
      "accessLevel": "O",
      "managerRoles": [],
      "navigateUsers": [],
      "navigateRoles": [],
      "description": "Accounts that won't be shared",
      "personal": true,
      "ownerGroups": [],
      "ownerRoles": [],
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/368461",
        "resourceType": "VaultFolder"
      },
    },
  ],
}
```

```
"schemas": [  
  "urn:soffid:com.soffid.iam.api.VaultFolder"  
],  
"name": "Personal accounts",  
"managerUsers": [],  
"navigateGroups": [],  
"id": 368461,  
"grantedGroups": [],  
"managerGroups": [],  
"grantedUsers": [],  
"ownerUsers": [  
  "admin"  
]  
},  
{  
  "grantedRoles": [],  
  "accessLevel": "O",  
  "managerRoles": [],  
  "navigateUsers": [  
    "test2",  
    "admin"  
  ],  
  "navigateRoles": [],  
  "description": "Password vault",  
  "personal": false,  
  "ownerGroups": [],  
  "ownerRoles": [],  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/515461",  
    "resourceType": "VaultFolder"  
  },  
  "schemas": [  
    "urn:soffid:com.soffid.iam.api.VaultFolder"  
  ],  
  "name": "vault",  
  "managerUsers": [],  
  "navigateGroups": [],  
  "id": 515461,  
  "grantedGroups": [],
```

```

    "managerGroups": [],
    "grantedUsers": [],
    "ownerUsers": [
      "admin"
    ]
  },
  .....
]
}

```

## List by filter

List all VaultFolders 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/VaultFolder/?filter=personal eq true
```

### Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "grantedRoles": [],
      "accessLevel": "O",
      "managerRoles": [],
      "navigateUsers": [],
      "navigateRoles": [],
      "description": "Accounts that won't be shared",
      "personal": true,

```

```
"ownerGroups": [],
"ownerRoles": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/368461",
  "resourceType": "VaultFolder"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.VaultFolder"
],
"name": "Personal accounts",
"managerUsers": [],
"navigateGroups": [],
"id": 368461,
"grantedGroups": [],
"managerGroups": [],
"grantedUsers": [],
"ownerUsers": [
  "admin"
]
}
]
```

## Query by id

Query a VaultFolder by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/VaultFolder/515461
```

### Response 200 OK

```
{
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "navigateUsers": [
    "test2",
```



```
    "admin"
  ],
  "navigateRoles": [],
  "description": "Password vault",
  "personal": false,
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/515461",
    "resourceType": "VaultFolder"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.VaultFolder"
  ],
  "name": "vault",
  "managerUsers": [],
  "navigateGroups": [],
  "id": 515461,
  "grantedGroups": [],
  "managerGroups": [],
  "grantedUsers": [],
  "ownerUsers": [
    "admin"
  ]
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.VaultFolder"
  ],
  "name": "Folder Billing",
```

```
"description": "Folder Billing",
"parentFolder": "vault",
"parentId": 515461,
"personal": false,
"accessLevel": "M",
"ownerUsers": [
  "admin"
],
"navigateUsers": [
  "admin"
]
}
```

## Response 201 Created

```
{
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "navigateUsers": [
    "admin"
  ],
  "navigateRoles": [],
  "description": "Folder Billing",
  "personal": false,
  "parentId": 515461,
  "parentFolder": "vault",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/1977703",
    "resourceType": "VaultFolder"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.VaultFolder"
  ],
  "name": "Folder Billing",
  "managerUsers": [],
  "navigateGroups": [],
  "id": 1977703,
```

```
"grantedGroups": [],  
"managerGroups": [],  
"grantedUsers": [],  
"ownerUsers": [  
  "admin"  
]  
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/VaultFolder/1977703
```

### JSON

```
{  
  "Operations": [  
    {  
      "op": "replace",  
      "path": "description",  
      "value": "Vault folder billing"  
    },  
    {  
      "op": "add",  
      "path": "navigateUsers",  
      "value": [  
        "dilbert",  
        "asea"  
      ]  
    }  
  ]  
}
```

Response 200 OK

```

{
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "navigateUsers": [
    "asea",
    "dilbert",
    "admin"
  ],
  "navigateRoles": [],
  "description": "Vault folder billing",
  "personal": false,
  "parentId": 515461,
  "parentFolder": "vault",
  "ownerGroups": [],
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/1977703",
    "resourceType": "VaultFolder"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.VaultFolder"
  ],
  "name": "Folder Billing",
  "managerUsers": [],
  "navigateGroups": [],
  "id": 1977703,
  "grantedGroups": [],
  "managerGroups": [],
  "grantedUsers": [],
  "ownerUsers": [
    "admin"
  ]
}

```

## Update all

This operation replaces all values in the VaultFolder.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/VaultFolder/1977703
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.VaultFolder"
  ],
  "id": 1977703,
  "name": "Folder Billing",
  "description": "Folder Billing",
  "parentFolder": "vault",
  "parentId": 515461,
  "personal": false,
  "accessLevel": "M",
  "ownerUsers": [
    "admin"
  ]
}
```

## Response 200 OK

```
{
  "grantedRoles": [],
  "accessLevel": "O",
  "managerRoles": [],
  "navigateUsers": [],
  "navigateRoles": [],
  "description": "Folder Billing",
  "personal": false,
  "parentId": 515461,
  "parentFolder": "vault",
```

```
"ownerGroups": [],
"ownerRoles": [],
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/VaultFolder/1977703",
  "resourceType": "VaultFolder"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.VaultFolder"
],
"name": "Folder Billing",
"managerUsers": [],
"navigateGroups": [],
"id": 1977703,
"grantedGroups": [],
"managerGroups": [],
"grantedUsers": [],
"ownerUsers": [
  "admin"
]
}
```

## Delete

Please note after this delete, the VaultFolder has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/VaultFolder/1977703
```

## 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 System examples

## Operations

This page shows the operations that can be performed for the Systems object (Agents).

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 16,
  "startIndex": 1,
  "Resources": [
    {
      "accessControl": false,
      "usersDomain": "DEFAULT",
      "fullReconciliation": false,
      "authoritative": false,
      "description": "Soffid system",
      "groups": "",
      "threads": 1,
      "className": "- no class -",
      "userTypes": "I",
      "groupsList": [],
      "readOnly": false,
      "passwordsDomain": "DEFAULT",
      "timeStamp": "2020-04-18 19:32:37",
```



```
"rolebased": true,
"trusted": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/44",
  "resourceType": "System"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.System"
],
"name": "soffid",
"id": 44,
"passwordsDomainId": 27,
"tenant": "master",
"generateTasksOnLoad": true
},
{
  "accessControl": false,
  "usersDomain": "DEFAULT",
  "fullReconciliation": false,
  "authoritative": false,
  "description": "External SSO accounts",
  "groups": "admingroup,enterprise",
  "threads": 1,
  "className": "com.soffid.iam.sync.sso.agent.SSOAgent",
  "userTypes": "S,I",
  "groupsList": [
    "admingroup",
    "enterprise"
  ],
  "readOnly": false,
  "url": "local",
  "passwordsDomain": "DEFAULT",
  "timeStamp": "2020-09-21 10:17:38",
  "rolebased": false,
  "trusted": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/47",
    "resourceType": "System"
  },
}
```

```

    "schemas": [
      "urn:soffid:com.soffid.iam.api.System"
    ],
    "name": "SSO",
    "id": 47,
    "manualAccountCreation": true,
    "passwordsDomainId": 27,
    "tenant": "master",
    "generateTasksOnLoad": true
  },
  .....
]
}

```

## List by filter

List all Systems 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/System?filter=description co 10.129.
```

### Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "accessControl": false,
      "description": "Discovered host 10.129.122.22",
      "className": "com.soffid.iam.sync.agent.SimpleSSHAgent",

```

```
"userTypes": "",
"passwordsDomain": "DEFAULT",
"rolebased": false,
"id": 1885153,
"manualAccountCreation": true,
"tenant": "master",
"generateTasksOnLoad": false,
"param7": "false",
"usersDomain": "DEFAULT",
"param6": "UTF-8",
"fullReconciliation": true,
"authoritative": false,
"sharedDispatcher": true,
"param0": "soffid",
"groups": "",
"threads": 1,
"groupsList": [],
"readOnly": false,
"param3": "10.129.122.22",
"param4": "true",
"url": "local",
"param2": "517y1hF40k4=",
"timeStamp": "2021-04-23 12:23:15",
"trusted": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/1885153",
  "resourceType": "System"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.System"
],
"name": "10.129.122.22",
"passwordsDomainId": 27
},
{
  "accessControl": false,
  "description": "Discovered host 10.129.122.25",
  "className": "com.soffid.iam.sync.agent.SimpleWindowsAgent",
  "userTypes": "",
```

```

    "passwordsDomain": "DEFAULT",
    "rolebased": false,
    "id": 1890334,
    "manualAccountCreation": true,
    "tenant": "master",
    "generateTasksOnLoad": false,
    "param7": "false",
    "usersDomain": "DEFAULT",
    "fullReconciliation": true,
    "authoritative": false,
    "sharedDispatcher": true,
    "param0": "Administrador",
    "groups": "",
    "threads": 1,
    "groupsList": [],
    "readOnly": false,
    "param3": "10.129.122.25",
    "param4": "true",
    "url": "local",
    "param2": "VFJV1pSRfE7s",
    "timeStamp": "2021-04-23 20:00:34",
    "trusted": false,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/1890334",
      "resourceType": "System"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.api.System"
    ],
    "name": "10.129.122.25",
    "passwordsDomainId": 27
  }
]
}

```

## Query by id

Query a System by its id (primary key).

# Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/System/389082
```

## Response 200 OK

```
{
  "accessControl": true,
  "description": "Active Directory.",
  "className": "com.soffid.iam.sync.agent2.CustomizableActiveDirectoryAgent",
  "userTypes": "I",
  "passwordsDomain": "DEFAULT",
  "rolebased": true,
  "id": 389082,
  "manualAccountCreation": false,
  "tenant": "master",
  "generateTasksOnLoad": true,
  "param7": "true",
  "param8": "true",
  "usersDomain": "DEFAULT",
  "fullReconciliation": false,
  "authoritative": true,
  "sharedDispatcher": false,
  "param0": "ad.bubu.lab",
  "groups": "",
  "threads": 1,
  "groupsList": [],
  "readOnly": false,
  "param3": "C27Nv4vjblsl",
  "url": "https://soffid.bubu.lab:1760/",
  "param1": "dc=ad,dc=bubu,dc=lab",
  "param2": "ad\\Administrator",
  "timeStamp": "2021-04-07 09:31:59",
  "trusted": true,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/389082",
    "resourceType": "System"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.System"
```

```
],
"name": "ad",
"passwordsDomainId": 27
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.System"
  ],
  "name": "SQLRRHH",
  "description": "SQL RRHH test",
  "className": "com.soffid.iam.sync.agent.SQLAgent2",
  "userTypes": "E,I",
  "passwordsDomain": "DEFAULT",
  "usersDomain": "DEFAULT"
}
```

## Response 201 Created

```
{
  "accessControl": false,
  "usersDomain": "DEFAULT",
  "fullReconciliation": false,
  "authoritative": false,
  "description": "SQL RRHH test",
  "groups": "",
  "threads": 1,
  "className": "com.soffid.iam.sync.agent.SQLAgent2",
  "userTypes": "I,E",
  "groupsList": [],
  "readOnly": false,
```

```
"passwordsDomain": "DEFAULT",
"timeStamp": "2021-05-12 10:58:35",
"rolebased": false,
"trusted": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/1977157",
  "resourceType": "System"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.System"
],
"name": "SQLRRHH",
"id": 1977157,
"passwordsDomainId": 27,
"tenant": "master",
"generateTasksOnLoad": false
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/System/1977157
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "param0",
      "value": "user"
    },
    {
      "op": "replace",
      "path": "param1",
      "value": "password"
    },
  ],
}
```

```
{
  "op": "replace",
  "path": "param2",
  "value": "jdbc:mysql://localhost/personal"
}
]
```

## Response 200 OK

```
{
  "accessControl": false,
  "description": "SQL RRHH test",
  "className": "com.soffid.iam.sync.agent.SQLAgent2",
  "userTypes": "I,E",
  "passwordsDomain": "DEFAULT",
  "rolebased": false,
  "id": 1977157,
  "tenant": "master",
  "generateTasksOnLoad": false,
  "usersDomain": "DEFAULT",
  "fullReconciliation": false,
  "authoritative": false,
  "param0": "user",
  "groups": "",
  "threads": 1,
  "groupsList": [],
  "readOnly": false,
  "param1": "password",
  "param2": "jdbc:mysql://localhost/personal",
  "timeStamp": "2021-05-12 10:59:44",
  "trusted": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/1977157",
    "resourceType": "System"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.System"
  ],
  "name": "SQLRRHH",
```



```
"passwordsDomainId": 27
}
```

# Update all

This operation replace all values in the System.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/System/1977157
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.System"
  ],
  "id": 1977157,
  "name": "SQLRRHH",
  "description": "SQL RRHH test",
  "className": "com.soffid.iam.sync.agent.SQLAgent2",
  "userTypes": "E,I",
  "passwordsDomain": "DEFAULT",
  "usersDomain": "DEFAULT"
}
```

## Response 200 OK

```
{
  "accessControl": false,
  "usersDomain": "DEFAULT",
  "fullReconciliation": false,
  "authoritative": false,
```

```
"description": "SQL RRHH test",
"groups": "",
"threads": 1,
"className": "com.soffid.iam.sync.agent.SQLAgent2",
"userTypes": "I,E",
"groupsList": [],
"readOnly": false,
"passwordsDomain": "DEFAULT",
"timeStamp": "2021-05-12 11:02:49",
"rolebased": false,
"trusted": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/System/1977157",
  "resourceType": "System"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.System"
],
"name": "SQLRRHH",
"id": 1977157,
"passwordsDomainId": 27,
"tenant": "master",
"generateTasksOnLoad": false
}
```

## Delete

Please note after this delete, the System has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/System/1977157
```

## 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 CustomObject examples

## Operations

This page shows the operations that can be performed for the CustomObjects object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 6,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/webservice/scim2/v1/CustomObject/848157",
        "resourceType": "CustomObject"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.api.CustomObject"
      ],
      "name": "aa",
      "description": "aaa",
      "attributes": {
```

```

        "address": "2"
      },
      "id": 848157,
      "type": "building"
    },
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/1510208",
        "resourceType": "CustomObject"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.api.CustomObject"
      ],
      "name": "ES",
      "description": "Spain",
      "attributes": {
        "language": "English"
      },
      "id": 1510208,
      "type": "country"
    },
    .....
  ]
}

```

## List by filter

List all CustomObjects 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/CustomObject?filter=description eq Spain
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/1510208",
        "resourceType": "CustomObject"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.api.CustomObject"
      ],
      "name": "ES",
      "description": "Spain",
      "attributes": {
        "language": "English"
      },
      "id": 1510208,
      "type": "country"
    }
  ]
}
```

## Query by id

Query a CustomObject by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/CustomObject/848062
```

### Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/848062",
```

```
    "resourceType": "CustomObject"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "name": "HQ",
  "description": "Headquarters",
  "attributes": {
    "address": "1"
  },
  "id": 848062,
  "type": "building"
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "name": "IT",
  "description": "Italy",
  "type": "country",
  "attributes": {
    "language": "English"
  }
}
```

## Response 201 Created

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/1977187",
  }
}
```

```
    "resourceType": "CustomObject"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "name": "IT",
  "description": "Italy",
  "attributes": {
    "language": "English"
  },
  "id": 1977187,
  "type": "country"
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/CustomObject/1977187
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "attributes",
      "value": {
        "language": "German"
      }
    }
  ]
}
```

### Response 200 OK



```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/1977187",
    "resourceType": "CustomObject"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "name": "IT",
  "description": "Italy",
  "attributes": {
    "language": "German"
  },
  "id": 1977187,
  "type": "country"
}
```

## Update all

This operation replaces all values in the CustomObject.

- Note that the attribute id is required to confirm that the resource "...CustomObject/<id>" is the same that the JSON CustomObject.
- Note that all the attributes not included in the request will be cleared in the CustomObject type 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 [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/CustomObject/1977187
```

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "id": 1977187,
  "name": "IT",
```

```
"description": "Italy",
"type": "country",
"attributes": {
  "language": "English"
}
}
```

## Response 200 OK

```
{
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/CustomObject/1977187",
    "resourceType": "CustomObject"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.CustomObject"
  ],
  "name": "IT",
  "description": "Italy",
  "attributes": {
    "language": "English"
  },
  "id": 1977187,
  "type": "country"
}
```

## Delete

Please note after this delete, the CustomObject has to be created again to use it in the next examples.

## Request

```
DELETE http://<your-omain>/soffid/webservice/scim2/v1/CustomObject/1977187
```

## 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 ProcessDefinition examples

## Operations

This page shows the operations that can be performed for the ProcessDefinitions object

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 8,
  "startIndex": 1,
  "Resources": [
    {
      "author": "admin",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessDefinition/1474063",
        "resourceType": "ProcessDefinition"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.ProcessDefinition"
      ],
      "name": "User registration",
      "deployed": "2021-02-11 16:42:08",
    }
  ]
}
```

```

    "tag": "27",
    "id": 1474063,
    "version": 27,
    "enabled": true
  },
  {
    "author": "admin",
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessDefinition/1857694",
      "resourceType": "ProcessDefinition"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.bpm.api.ProcessDefinition"
    ],
    "name": "User request",
    "deployed": "2021-04-15 16:10:11",
    "tag": "19",
    "id": 1857694,
    "version": 19,
    "enabled": true
  },
  .....
]
}

```

## List by filter

List all ProcessDefinitions 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/ProcessDefinition?filter=name co request
```

### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "author": "admin",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessDefinition/1946303",
        "resourceType": "ProcessDefinition"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.ProcessDefinition"
      ],
      "name": "Permissions request",
      "deployed": "2021-04-30 08:48:58",
      "tag": "23",
      "id": 1946303,
      "type": "RoleApproval",
      "version": 23,
      "enabled": true
    },
    {
      "author": "admin",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessDefinition/1857694",
        "resourceType": "ProcessDefinition"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.ProcessDefinition"
      ],
      "name": "User request",
      "deployed": "2021-04-15 16:10:11",
      "tag": "19",
      "id": 1857694,
      "version": 19,
      "enabled": true
    }
  ]
}
```

```
}  
]  
}
```

## Query by id

Query a ProcessDefinition by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/ProcessDefinition/1857694
```

### Response 200 OK

```
{  
  "author": "admin",  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessDefinition/1857694",  
    "resourceType": "ProcessDefinition"  
  },  
  "schemas": [  
    "urn:soffid:com.soffid.iam.bpm.api.ProcessDefinition"  
  ],  
  "name": "User request",  
  "deployed": "2021-04-15 16:10:11",  
  "tag": "19",  
  "id": 1857694,  
  "version": 19,  
  "enabled": true  
}
```

## Create

This operation is not allowed.

## Update partial

This operation is not allowed.

# Update all

This operation is not allowed.

# Delete

This operation is not allowed.

# Error response

For more information about error response visit

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



# SCIM ProcessInstance examples

## Operations

This page shows the operations that can be performed for the ProcessInstances object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 311,
  "startIndex": 1,
  "Resources": [
    {
      "dummyProcess": false,
      "variables": {},
      "comments": [
        {
          "actor": "admin Soffid Administrator",
          "schemas": [
            "urn:soffid:com:soffid.iam.bpm.api.Comment"
          ],
          "time": "2020-09-30 09:57:15",
          "message": "Comentario"
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "processDefinition": 628635,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/626161",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2020-09-29 20:34:46",
  "currentTask": "Entrada de la consulta",
  "description": "Consultar la base de datos",
  "end": "2020-11-11 15:05:48",
  "id": 626161
},
{
  "dummyProcess": false,
  "variables": {},
  "comments": [],
  "processDefinition": 628635,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/626179",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2020-09-29 20:35:22",
  "currentTask": "Entrada de la consulta",
  "description": "Consultar la base de datos",
  "end": "2020-11-11 15:05:44",
  "id": 626179
},
.....
]
}

```

## List by filter

List all ProcessInstances 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/ProcessInstance?filter=description co Permission and
currentTask eq Start
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 8,
  "startIndex": 1,
  "Resources": [
    {
      "dummyProcess": false,
      "variables": {
        "requester": "admin",
        "grants": [],
        "requesterName": "Soffid Administrator"
      },
      "comments": [],
      "processDefinition": 1054785,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1053984",
        "resourceType": "ProcessInstance"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
      ],
      "start": "2020-12-14 14:49:20",
      "currentTask": "Start",
      "description": "Permissions request",
      "end": "2021-01-29 08:25:28",
```

```

      "id": 1053984
    },
    {
      "dummyProcess": false,
      "variables": {
        "requester": "admin",
        "grants": [],
        "requesterName": "Soffid Administrator"
      },
      "comments": [],
      "processDefinition": 1946303,
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1378380",
        "resourceType": "ProcessInstance"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
      ],
      "start": "2021-01-29 08:26:30",
      "currentTask": "Start",
      "description": "Permissions request",
      "id": 1378380
    },
    .....
  ]
}

```

## Query by id

Query a ProcessInstance by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/ProcessInstance/1378380
```

### Response 200 OK

```
{
  "dummyProcess": false,
  "variables": {
    "requester": "admin",
    "grants": [],
    "requesterName": "Soffid Administrator"
  },
  "comments": [],
  "processDefinition": 1946303,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1378380",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2021-01-29 08:26:30",
  "currentTask": "Start",
  "description": "Permissions request",
  "id": 1378380
}
```

# Create

## Request

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

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "dummyProcess": false,
  "variables": {
    "requester": "ckelp",
    "grants": [],
    "requesterName": "Casey Kelp"
  }
}
```

```
},
"comments": [],
"processDefinition": 1946303,
"description": "Permissions request"
}
```

## Response 201 Created

```
{
  "dummyProcess": false,
  "variables": {
    "requester": "ckelp",
    "grants": [],
    "requesterName": "Casey Kelp"
  },
  "comments": [],
  "processDefinition": 1946303,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1378380",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2021-01-29 08:26:30",
  "currentTask": "Start",
  "description": "Permissions request",
  "id": 1378380
}
```

## Update partial

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

### Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/GroupUser/1976741
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "start",
      "value": "2021-05-14 00:00:00"
    }
  ]
}
```

## Response 200 OK

```
{
  "dummyProcess": false,
  "variables": {
    "requester": "admin",
    "grants": [],
    "requesterName": "Soffid Administrator"
  },
  "comments": [],
  "processDefinition": 1946303,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1378380",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2021-05-14 00:00:00",
  "currentTask": "Start",
  "description": "Permissions request",
  "id": 1378380
}
```

# Update all

This operation replaces all values in the ProcessInstance.

- Note that the attribute id is required to confirm that the resource "...ProcessInstance/<id>" is the same that the JSON ProcessInstance.

- Note that all the attributes not included in the request will be cleared in the ProcessInstance type 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 [Resource data model page](#)

## Request

```
PUT - http://<your-domain>/soffid/webservice/scim2/v1/ProcessInstance/1474138
```

### JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "id": 1378380,
  "dummyProcess": false,
  "variables": {
    "requester": "ckelp",
    "grants": [],
    "requesterName": "Casey Kelp"
  },
  "comments": ["comments"],
  "processDefinition": 1946303,
  "start": "2021-05-14 00:00:00",
  "currentTask": "Start",
  "description": "Permissions request"
}
```

## Response 200 OK

```
{
  "dummyProcess": false,
  "variables": {
    "requester": "ckelp",
    "grants": [],
    "requesterName": "Casey Kelp"
  },
  "comments": [
```



```
    "comments"
  ],
  "processDefinition": 1946303,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/ProcessInstance/1378380",
    "resourceType": "ProcessInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.ProcessInstance"
  ],
  "start": "2021-05-14 00:00:00",
  "currentTask": "Start",
  "description": "Permissions request",
  "id": 1378380
}
```

## Delete

“ When you delete a ProcessInstance, it will be disabled, but never deleted from the database, this ProcessInstance will have an end date.

Please note after this delete, the ProcessInstance has to be created again to use it in the next examples.

## Request

```
DELETE - http://<your-domain>/webservice/scim2/v1/ProcessInstance/1977873
```

## 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 TaskInstance examples

## Operations

This page shows the operations that can be performed for the TaskInstances object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 6,
  "startIndex": 1,
  "Resources": [
    {
      "variables": {
        "requester": "admin",
        "grants": [
          {
            "ownersString": "SOFFID_ADMIN ",
            "comments": "",
            "roleId": 393447,
            "userFullName": "Soffid Administrator",
            "owners": [
              "SOFFID_ADMIN"
            ],
            "userName": "admin",
            "approved": false,
```

```
"applicationDescription": "SOFFID Identity Manager",
"taskInstance": 1762656,
"schemas": [
  "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
],
"denied": false,
"roleDescription": "Accounting Manager",
"applicationName": "Container/Business 2/SOFFID"
}
],
"requesterName": "Soffid Administrator"
},
"processDefinition": 1762352,
"description": "Approve ",
"pooledActors": [
  "SOFFID_ADMIN"
],
"priority": 3,
"transitions": [
  "Rechazar",
  "Aceptar"
],
"dummyTask": false,
"processName": "Modificar permisos",
"processId": 1762544,
"blocking": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1762656",
  "resourceType": "TaskInstance"
},
"schemas": [
  "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
],
"name": "Approve",
"create": "2021-03-30 19:57:35",
"cancelled": false,
"id": 1762656,
"open": true,
"signalling": true
```

```
},
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "admin ",
        "comments": "",
        "roleId": 393447,
        "userFullName": "Soffid Administrator",
        "owners": [
          "admin"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "SOFFID Identity Manager",
        "taskInstance": 1861549,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ],
        "denied": false,
        "roleDescription": "Accounting Manager",
        "applicationName": "Operation/Business 2/SOFFID"
      }
    ],
    "requesterName": "Soffid Administrator"
  },
  "processDefinition": 1946303,
  "description": "Approve pending permissions",
  "pooledActors": [
    "admin"
  ],
  "priority": 3,
  "transitions": [
    "Reject",
    "Approve"
  ],
  "dummyTask": false,
  "processName": "Permissions request",
```

```

    "processId": 1861537,
    "blocking": false,
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1861549",
      "resourceType": "TaskInstance"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
    ],
    "name": "Approve",
    "create": "2021-04-17 21:00:46",
    "cancelled": false,
    "id": 1861549,
    "open": true,
    "signalling": true
  },
  .....
]
}

```

## List by filter

List all TaskInstances 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/TaskInstance?count=2&filter=processName eq
"Permissions request" and name eq Approve

```

### Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],

```

```
"totalResults": 4,
"startIndex": 1,
"Resources": [
  {
    "variables": {
      "requester": "admin",
      "grants": [
        {
          "ownersString": "admin ",
          "comments": "",
          "roleId": 393447,
          "userFullName": "Soffid Administrator",
          "owners": [
            "admin"
          ],
          "userName": "admin",
          "approved": false,
          "applicationDescription": "SOFFID Identity Manager",
          "taskInstance": 1861549,
          "schemas": [
            "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
          ],
          "denied": false,
          "roleDescription": "Accounting Manager",
          "applicationName": "Operation/Business 2/SOFFID"
        }
      ],
      "requesterName": "Soffid Administrator"
    },
    "processDefinition": 1946303,
    "description": "Approve pending permissions",
    "pooledActors": [
      "admin"
    ],
    "priority": 3,
    "transitions": [
      "Reject",
      "Approve"
    ],
  },
]
```

```
"dummyTask": false,
"processName": "Permissions request",
"processId": 1861537,
"blocking": false,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1861549",
  "resourceType": "TaskInstance"
},
"schemas": [
  "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
],
"name": "Approve",
"create": "2021-04-17 21:00:46",
"cancelled": false,
"id": 1861549,
"open": true,
"signalling": true
},
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "admin ",
        "comments": "",
        "roleId": 393103,
        "userFullName": "Soffid Administrator",
        "owners": [
          "admin"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "Active Directory",
        "taskInstance": 1638273,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ],
        "denied": false,
        "roleDescription": "Enterprise Administrators",
```



```

        "applicationName": "Container/Business process/ad"
    },
    ],
    "requesterName": "Soffid Administrator"
},
"processDefinition": 1946303,
"start": "2021-05-10 12:57:31",
"description": "Approve pending permissions",
"pooledActors": [
    "admin"
],
"priority": 3,
"transitions": [
    "Reject",
    "Approve"
],
"dummyTask": false,
"actorId": "admin",
"processName": "Permissions request",
"processId": 1638261,
"blocking": false,
"meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1638273",
    "resourceType": "TaskInstance"
},
"schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
],
"name": "Approve",
"create": "2021-03-11 16:33:41",
"cancelled": false,
"id": 1638273,
"open": true,
"signalling": true
},
.....
]
}

```

# Query by id

Query a TaskInstance by its id (primary key).

## Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/TaskInstance/1861549
```

## Response 200 OK

```
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "admin ",
        "comments": "",
        "roleId": 393447,
        "userFullName": "Soffid Administrator",
        "owners": [
          "admin"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "SOFFID Identity Manager",
        "taskInstance": 1861549,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ],
        "denied": false,
        "roleDescription": "Accounting Manager",
        "applicationName": "Operation/Business 2/SOFFID"
      }
    ],
    "requesterName": "Soffid Administrator"
  },
  "processDefinition": 1946303,
  "description": "Approve pending permissions",
  "pooledActors": [
```

```
    "admin"
  ],
  "priority": 3,
  "transitions": [
    "Reject",
    "Approve"
  ],
  "dummyTask": false,
  "processName": "Permissions request",
  "processId": 1861537,
  "blocking": false,
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1861549",
    "resourceType": "TaskInstance"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
  ],
  "name": "Approve",
  "create": "2021-04-17 21:00:46",
  "cancelled": false,
  "id": 1861549,
  "open": true,
  "signalling": true
}
```

## Create

This operation is not allowed.

## Update partial

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

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/TaskInstance/1762656
```

## JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "blocking",
      "value": true
    }
  ]
}
```

## Response 200 OK

```
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "SOFFID_ADMIN ",
        "comments": "",
        "roleId": 393447,
        "userFullName": "Soffid Administrator",
        "owners": [
          "SOFFID_ADMIN"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "SOFFID Identity Manager",
        "taskInstance": 1762656,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ],
        "denied": false,
        "roleDescription": "Accounting Manager",
        "applicationName": "Container/Business 2/SOFFID"
      }
    ],
    "requesterName": "Soffid Administrator"
  },
  "processDefinition": 1762352,
```

```

"description": "Approve ",
"pooledActors": [
  "SOFFID_ADMIN"
],
"priority": 3,
"transitions": [
  "Rechazar",
  "Aceptar"
],
"dummyTask": false,
"processName": "Modificar permisos",
"processId": 1762544,
"blocking": true,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1762656",
  "resourceType": "TaskInstance"
},
"schemas": [
  "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
],
"name": "Approve",
"create": "2021-03-30 19:57:35",
"cancelled": false,
"id": 1762656,
"open": true,
"signalling": true
}

```

## Update all

This operation replaces all values in the GroupUser.

- Note that the attribute id is required to confirm that the resource "...TaskInstance/<id>" is the same that the JSON TaskInstance.
- Note that all the attributes not included in the request will be cleared in the TaskInstance type and their data will be lost.
- Note that not all the attributes are updatable, for example tag meta, avoid these tags. For more information visit [Resource data model page](#)

## Request

PUT http://<your-domain>/webservice/scim2/v1/TaskInstance/1762656

## JSON

```
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "SOFFID_ADMIN ",
        "comments": "",
        "roleId": 393447,
        "userFullName": "Soffid Administrator",
        "owners": [
          "SOFFID_ADMIN"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "SOFFID Identity Manager",
        "taskInstance": 1762656,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ],
        "denied": false,
        "roleDescription": "Accounting Manager",
        "applicationName": "Container/Business 2/SOFFID"
      }
    ],
    "requesterName": "Soffid Administrator"
  },
  "processDefinition": 1762352,
  "description": "Approve ",
  "pooledActors": [
    "SOFFID_ADMIN"
  ],
  "priority": 3,
  "transitions": [
    "Rechazar",
    "Aceptar"
  ],
}
```

```
"dummyTask": false,
"processName": "Modificar permisos",
"processId": 1762544,
"blocking": true,
"meta": {
  "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1762656",
  "resourceType": "TaskInstance"
},
"schemas": [
  "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
],
"name": "Approve",
"create": "2021-03-30 19:57:35",
"cancelled": false,
"id": 1762656,
"open": true,
"signalling": true
}
```

## Response 200 OK

```
{
  "variables": {
    "requester": "admin",
    "grants": [
      {
        "ownersString": "SOFFID_ADMIN ",
        "comments": "",
        "roleId": 393447,
        "userFullName": "Soffid Administrator",
        "owners": [
          "SOFFID_ADMIN"
        ],
        "userName": "admin",
        "approved": false,
        "applicationDescription": "SOFFID Identity Manager",
        "taskInstance": 1762656,
        "schemas": [
          "urn:soffid:com.soffid.iam.addons.bpm.common.RoleRequestInfo"
        ]
      ]
    ]
  }
}
```

```

        "denied": false,
        "roleDescription": "Accounting Manager",
        "applicationName": "Container/Business 2/SOFFID"
    }
},
    "requesterName": "Soffid Administrator"
},
    "processDefinition": 1762352,
    "description": "Approve ",
    "pooledActors": [
        "SOFFID_ADMIN"
    ],
    "priority": 3,
    "transitions": [
        "Rechazar",
        "Aceptar"
    ],
    "dummyTask": false,
    "processName": "Modificar permisos",
    "processId": 1762544,
    "blocking": true,
    "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/TaskInstance/1762656",
        "resourceType": "TaskInstance"
    },
    "schemas": [
        "urn:soffid:com.soffid.iam.bpm.api.TaskInstance"
    ],
    "name": "Approve",
    "create": "2021-03-30 19:57:35",
    "cancelled": false,
    "id": 1762656,
    "open": true,
    "signalling": true
}

```

## Delete

In this case, delete operation will cancel the TaskInstance, but does not be deleted from database.



Please note after this delete, the account has to be created again to use it in the next examples.

## Request

```
DELETE - http://<your-domain>/soffid/webservice/scim2/v1/TaskInstance/1762656
```

## 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 Issue examples

## Operations

This page shows the operations that can be performed for the issue object.

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "performedActions": "2023-06-09 07:17:25 admin Created\n2023-06-09 09:46:54 admin
Acknowledged\n",
      "acknowledged": "2023-06-09 09:46:54",
      "created": "2023-06-09 07:17:25",
      "hosts": [],
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/44656",
        "resourceType": "Issue"
      },
      "schemas": [
        "urn:soffid:com.soffid.iam.api.Issue"
      ],
      "description": "Duplicated user bob bobm",
    }
  ]
}
```

```
"id": 44656,
"type": "duplicated-user",
"users": [
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bob",
    "userId": 3941
  },
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bobm",
    "userId": 3971
  }
],
"status": "A"
},
{
  "acknowledged": "2023-06-09 08:55:49",
  "created": "2023-06-09 07:29:25",
  "hosts": [],
  "description": "Account etaylor@soffid has been locked",
  "solved": "2023-06-09 08:56:09",
  "type": "locked-account",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "etaylor",
      "userId": 3821
    }
  ],
  "performedActions": "2023-06-09 07:29:25 $$INTERNAL$$ Created\n2023-06-09 08:49:49 admin User
etaylor is disabled\n2023-06-09 08:55:09 admin The account etaylor has been locked\n2023-06-09 08:55:41
admin Notify pgarcia@soffid.com\n2023-06-09 08:55:49 admin Acknowledged\n2023-06-09 08:55:53 admin The
```

account etaylor has been unlocked\n2023-06-09 08:56:09 admin Solved\n",

```
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/44672",
  "resourceType": "Issue"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Issue"
],
"id": 44672,
"account": {
  "lastLogin": "2023-06-09 07:28:11",
  "grantedRoles": [],
  "description": "Elizabeth Taylor",
  "type": "U",
  "lastUpdated": "2023-06-09 08:56:07",
  "ownerGroups": [],
  "loginName": "etaylor",
  "inheritNewPermissions": false,
  "disabled": false,
  "id": 4994,
  "managerGroups": [],
  "grantedGroups": [],
  "lastPasswordSet": "2023-06-09 07:28:14",
  "passwordExpiration": "2024-06-08 07:28:14",
  "passwordPolicy": "I",
  "accessLevel": "-",
  "managerRoles": [],
  "created": "2023-06-02 09:14:36",
  "hasSnapshot": false,
  "system": "soffid",
  "ownerRoles": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account/4994",
    "resourceType": "Account"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Account"
  ],
  "name": "etaylor",
```

```
"managerUsers": [],
"lastChange": "2023-06-09 08:55:53",
"attributes": {},
"status": "a",
"ownerUsers": [
  "etaylor"
],
"grantedUsers": []
},
"status": "S"
},
{
  "performedActions": "2023-06-14 06:56:42 admin Created\n",
  "created": "2023-06-14 06:56:42",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/56710",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user cdarwin cmartin etaylor",
  "id": 56710,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "cdarwin",
      "userId": 4037
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "cmartin",
      "userId": 3890
    }
  ]
}
```

```
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "etaylor",
      "userId": 3821
    }
  ],
  "status": "N"
},
{
  "performedActions": "2023-06-14 07:02:55 admin Created\n",
  "created": "2023-06-14 07:02:55",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/56728",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user cdarwin cmartin etaylor",
  "id": 56728,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "cdarwin",
      "userId": 4037
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "cmartin",
      "userId": 3890
    }
  ]
}
```

```
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "etaylor",
      "userId": 3821
    }
  ],
  "status": "N"
}
]
```

## List by filter

List all Issues 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/Issue?filter=type co "locked"
```

## Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "acknowledged": "2023-06-09 08:55:49",
      "created": "2023-06-09 07:29:25",
      "hosts": [],
```

```
"description": "Account etaylor@soffid has been locked",
"solved": "2023-06-09 08:56:09",
"type": "locked-account",
"users": [
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "etaylor",
    "userId": 3821
  }
],
"performedActions": "2023-06-09 07:29:25 $$INTERNAL$$ Created\n2023-06-09 08:49:49 admin User
etaylor is disabled\n2023-06-09 08:55:09 admin The account etaylor has been locked\n2023-06-09 08:55:41
admin Notify pgarcia@soffid.com\n2023-06-09 08:55:49 admin Acknowledged\n2023-06-09 08:55:53 admin The
account etaylor has been unlocked\n2023-06-09 08:56:09 admin Solved\n",
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/44672",
  "resourceType": "Issue"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Issue"
],
"id": 44672,
"account": {
  "lastLogin": "2023-06-09 07:28:11",
  "grantedRoles": [],
  "description": "Elizabeth Taylor",
  "type": "U",
  "lastUpdated": "2023-06-09 08:56:07",
  "ownerGroups": [],
  "loginName": "etaylor",
  "inheritNewPermissions": false,
  "disabled": false,
  "id": 4994,
  "managerGroups": [],
  "grantedGroups": [],
  "lastPasswordSet": "2023-06-09 07:28:14",
  "passwordExpiration": "2024-06-08 07:28:14",
```



```
"passwordPolicy": "I",
"accessLevel": "-",
"managerRoles": [],
"created": "2023-06-02 09:14:36",
"hasSnapshot": false,
"system": "soffid",
"ownerRoles": [],
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account/4994",
  "resourceType": "Account"
},
"schemas": [
  "urn:soffid:com.soffid.iam.api.Account"
],
"name": "etaylor",
"managerUsers": [],
"lastChange": "2023-06-09 08:55:53",
"attributes": {},
"status": "a",
"ownerUsers": [
  "etaylor"
],
"grantedUsers": []
},
"status": "S"
}
]
}
```

## Query by id

Query an Issue by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/Issue/44656
```

### Response 200 OK

```
{
  "performedActions": "2023-06-09 07:17:25 admin Created\n2023-06-09 09:46:54 admin Acknowledged\n",
  "acknowledged": "2023-06-09 09:46:54",
  "created": "2023-06-09 07:17:25",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/44656",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user bob bobm",
  "id": 44656,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bob",
      "userId": 3941
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bobm",
      "userId": 3971
    }
  ],
  "status": "A"
}
```

# Create

## Request

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

## JSON

```
{
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "type" : "duplicated-user",
  "status" : "N",
  "created" : "2023-06-19 15:30:00",
  "users" : [{
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bob",
    "userId": 3941
  },
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bobm",
    "userId": 3971
  }]
}
```

## Response 201 Created

```
{
  "actor": "SOFFID_ADMIN@soffid",
  "performedActions": "2023-06-21 08:49:22 admin Created\n2023-06-21 08:49:22 admin Executed automatic task start-workflow\n2023-06-21 08:49:22 admin Executed automatic task run-script\n2023-06-21 08:49:22 admin Executed automatic task send-email\n",
  "created": "2023-06-21 08:49:22.516",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/167879",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ]
}
```

```
],
"description": "Duplicated user bob bobm",
"id": 169336,
"type": "duplicated-user",
"users": [
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bob",
    "userId": 3941
  },
  {
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bobm",
    "userId": 3971
  }
],
"status": "N"
}
```

## 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/Issue/169336
```

### JSON

```
{
  "Operations": [
    {
      "op": "replace",
      "path": "status",
      "value": "A"
    }
  ]
}
```

```
]
}
```

## Response 200 OK

```
{
  "performedActions": "2023-06-21 08:54:04 admin Created\n2023-06-21 08:58:59 admin Acknowledged\n",
  "acknowledged": "2023-06-21 08:58:59.605",
  "created": "2023-06-21 08:54:04",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/169336",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user bobm bob",
  "id": 169336,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bobm",
      "userId": 3971
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bob",
      "userId": 3941
    }
  ],
  "status": "A"
}
```

# Update all

This operation replaces all values in the Issues.

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

For more information visit [Resource data model page](#)

## Request

```
PUT http://<your-domain>/soffid/webservice/scim2/v1/Issue/169336
```

## JSON

```
{
  "performedActions": "2023-06-21 08:54:04 admin Created\n2023-06-21 08:58:59 admin Acknowledged\n",
  "acknowledged": "2023-06-21 08:58:59.605",
  "created": "2023-06-21 08:54:04",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/169336",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user bobm bob",
  "id": 169336,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bobm",
      "userId": 3971
    },
    {
```

```
    "schemas": [
      "urn:soffid:com.soffid.iam.api.IssueUser"
    ],
    "userName": "bob",
    "userId": 3941
  }
],
"status": "S"
}
```

## Response 200 OK

```
{
  "performedActions": "2023-06-21 08:54:04 admin Created\n2023-06-21 08:58:59 admin Acknowledged\n",
  "acknowledged": "2023-06-21 08:58:59",
  "created": "2023-06-21 08:54:04",
  "hosts": [],
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue/169336",
    "resourceType": "Issue"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.api.Issue"
  ],
  "description": "Duplicated user bobm bob",
  "id": 169336,
  "type": "duplicated-user",
  "users": [
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bobm",
      "userId": 3971
    },
    {
      "schemas": [
        "urn:soffid:com.soffid.iam.api.IssueUser"
      ],
      "userName": "bob",

```

```
    "userId": 3941
  }
],
"status": "S"
}
```

# Delete

This operation is not allowed.

## Error response

For more information about error response visit

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