

# 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/Business 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/Business 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>

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