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# 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+' O
peration/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 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+' Oper
ation/Business process/ad' ",
            "roles":
"http: //soffid.pat. lab: 8080/soffid/webservice/scim2/v1/Role?filter=informationSystemName+eq+' O
peration/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"
    }
]
}

```

## 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/Business 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

# Error response

For more information about error response visit

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

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