

# 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>

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