

# SCIM OTP devices examples

## Operations

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

### List all

#### Request

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

#### Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 25,
  "startIndex": 1,
  "Resources": [
    {
      "lastUsed": "2021-10-14 06:57:00",
      "created": "2021-10-14 06:44:43",
      "meta": {
        "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880",
        "links": {
          "requestChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880/requestChallenge",
          "responseChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880/responseChallenge"
        },
        "resourceType": "OtpDevice"
      },
    },
  ],
}
```

```
"schemas": [  
  "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"  
],  
"name": "TOTP00000001",  
"id": 4022880,  
"type": "TOTP",  
"user": "franck",  
"fails": 0,  
"status": "D"  
},  
{  
  "created": "2021-10-14 08:37:38",  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024384",  
    "links": {  
      "requestChallenge":  
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024384/requestChallenge",  
      "responseChallenge":  
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024384/responseChallenge"  
    },  
    "resourceType": "OtpDevice"  
  },  
  "schemas": [  
    "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"  
  ],  
  "name": "Email message to pg*****@so****.co*",  
  "id": 4024384,  
  "type": "EMAIL",  
  "user": "patricia",  
  "fails": 0,  
  "email": "patricia@soffid.com",  
  "status": "D"  
},  
{  
  "created": "2021-10-14 11:17:52",  
  "meta": {  
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024416",  
    "links": {  
      "requestChallenge":
```

```

"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024416/requestChallenge",
    "responseChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4024416/responseChallenge"
    },
    "resourceType": "OtpDevice"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"
  ],
  "phone": "666555444",
  "name": "SMS message to 66*****44",
  "id": 4024416,
  "type": "SMS",
  "user": "agatha",
  "fails": 0,
  "status": "V"
},
.....
.....
]
}

```

## List by filter

List all the OTP devices 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/OtpDevice?filter=type eq "TOTP"
```

### Response 200 OK

```

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

```

```

],
"totalResults": 7,
"startIndex": 1,
"Resources": [
  {
    "lastUsed": "2021-10-14 06:57:00",
    "created": "2021-10-14 06:44:43",
    "meta": {
      "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880",
      "links": {
        "requestChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880/requestChallenge",
        "responseChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/4022880/responseChallenge"
      },
      "resourceType": "OtpDevice"
    },
    "schemas": [
      "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"
    ],
    "name": "TOTP000000001",
    "id": 4022880,
    "type": "TOTP",
    "user": "franck",
    "fails": 0,
    "status": "D"
  },
  .....
  .....
]
}

```

## Query by id

Query a OTP device by its id (primary key).

### Request

```
GET http://<your-domain>/soffid/webservice/scim2/v1/OtpDevice/5007882
```

## Response 200 OK

```
{
  "created": "2022-02-22 07:46:51",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882",
    "links": {
      "requestChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882/requestChallenge",
      "responseChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882/responseChallenge"
    },
    "resourceType": "OtpDevice"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"
  ],
  "name": "TOTP000000035",
  "id": 5007882,
  "type": "TOTP",
  "user": "admin",
  "fails": 0,
  "status": "C"
}
```

## Create

Allows you to create a new OTP device. It is important the type of the OTP you want to create, and depending on this, it will be mandatory to add new attributes to the request.

- **SMS**: add to the JSON the phone attribute
- **EMAIL**: add to the JSON the email attribute
- **PIN**: add to the JSON the pin attribute

## Request

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

## JSON

```
{
  "meta": {
    "location": "http://<your-domain>/webservice/scim2/v1/OtpDevice",
    "resourceType": "OtpDevice"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"
  ],
  "type": "TOTP",
  "user": "admin"
}
```

## Response 200 OK

```
{
  "image":
    "iVBORw0KGgoAAAANSUUEGAAAMgAAADIAQAAAACFI5MzAAAC3kIEQVR4Xu2XP66jMBDGB7lwFy5gydeg40rkAoRcgFzJna+B5AtA58Ji9hueQvJWu8UbS6stMoqiW9lrPn7Qfw3o99vnPYhHyL2L0mghhOz2Xue+tjGlltBlm9haQPdgufsButxp4LQlc1M+C5tSLt1TSWJjy26Jvipd2NfTTJPHU/kmlxariS8RX6w2fhwwt+i82OC/ER3fX2+Ze7HBJbp0iGieCQh54dpSaCBaOz8SmbukfY0C1STJAHIZkdQe947d6khkYau3KKZrNktzs77MwYawoTCuTFqEDytHY1PPxqSEQPPwY3WoOeu0WzPbGtloNH6tTdz1BX2ky3w7mSZAnkA95sQge3eRmfMdAQhh8pwLFL94ACR/9VkOzvbB5oX0LnuaEz9xoS/YORcNROGY7jn/nREE5bwCRwFwtveOQtBgoSjc9rnzggOWm27nUCBcnws1wl3OPgeOpVVQqCkdynqU+rLWQx+fwxEtTEEZXBLoO4KjcpzAqScZWQbczRNphZOq+CBHcNkuQmSs+hm4enHw1hXBWM9o39PS4XW161oyBhIZt2MishP/imy3kCDUEAyo3LpZe2m/BUDYlmtDjbUoDYtiQNYRUkLPj7jdNE5g4hIKVUQWK5BszRQh3PWBf0pncUJCAhRjJDGPZokbdtpiCMooYHs8rZ4WehKulhnZqM0YIKSo+czsmnIRFKpxxyArfd8FY7GoKRzISg7gSlnqsj2UwdYVZh+c+9jATMZj2J0rUi7ix0YsFsFt9qlrtR5PA9o10wYPx0nlpDjjRhD4Xi0MoP6NnTj4KEQ4WJFvNbXIDWZ+1oCCwujWhYg7S3sVQR0bDUYj3GI+3xp81BPOah+3T/UvDyqqIshDNxIq2q8dftD7W4GGRLyBYT0ujdRRedOwOgKRgvMiS446z2JqwjKfMJUJextCm87dqCHlj+xGj0WxMbT/8v7G8mPyZ/uQDxH7n8kvJ2XgRr9Rxi0AAAAASUVORK5CYII=",
  "created": "2022-02-22 07:46:51",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882",
    "resourceType": "OtpDevice"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons.otp.common.OtpDevice"
  ],
  "name": "TOTP00000035",
  "id": 5007882,
  "type": "TOTP",
  "user": "admin",
}
```

```
"fails": 0,  
"status": "C"  
}
```

## Example JSON SMS

```
{  
  "type": "SMS",  
  "user": "dilbert",  
  "phone": "6665552222"  
}
```

## Example JSON EMAIL

```
{  
  "type": "EMAIL",  
  "user": "dilbert",  
  "email": "dilbert@soffid.com"  
}
```

## Example JSON PIN

```
{  
  "type": "PIN",  
  "user": "dilbert",  
  "email": "123456789"  
}
```

# Update partial

Only attributes with changes will be updated, the other will maintain the same value. This example shows how to enable an OTP device.

## Request

```
PATCH http://<your-domain>/soffid/webservice/scim2/v1/OtpDevice/5007882
```

## JSON

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

## Response 200 OK

```
{
  "created": "2022-02-22 07:46:51",
  "meta": {
    "location": "http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882",
    "links": {
      "requestChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882/requestChallenge",
      "responseChallenge":
"http://soffid.pat.lab:8080/soffid/webservice/scim2/v1/OtpDevice/5007882/responseChallenge"
    },
    "resourceType": "OtpDevice"
  },
  "schemas": [
    "urn:soffid:com.soffid.iam.addons otp.common.OtpDevice"
  ],
  "name": "TOTP000000035",
  "id": 5007882,
  "type": "TOTP",
  "user": "admin",
  "fails": 0,
  "status": "V"
}
```

## Request Challenge



This operation allows Soffid to obtain the PIN code for a specific OTP device. We can use this method to send an email or SMS, depending on the type of OTP device.

## Request

```
GET http://<your-domain>//soffid/webservice/scim2/v1/OtpDevice/<OTP_ID>/requestChallenge
```

## Response 200 OK

```
{
  "cell": "PIN",
  "cardNumber": "SMS message to 66*****22"
}
```

# Response Challenge

This operation allows you to validate a PIN code for a specific OTP device.

## Request

```
POST http://<your-domain>//soffid/webservice/scim2/v1/OtpDevice/<OTP_ID>/responseChallenge
```

### JSON

```
{
  "pin": "12345678"
}
```

## Response 200 OK

```
{
  "success": false,
  "locked": false
}
```

# Delete

In this case, delete operation will cancel the TaskInstance, but does not be deleted form 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/OtpDevice/5007967
```

## 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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Revision #12

Created 22 February 2022 07:07:04 by pgarcia@soffid.com

Updated 1 August 2023 09:11:43 by pgarcia@soffid.com