# 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": "TOTP00000001",
            "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": "TOTP00000035",
   "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":
"iVBORw0KGgoAAAANSUhEUgAAAMgAAADIAQAAAACFI5MzAAAC3klEQVR4Xu2XP66jMBDGB7lwFy5gydeg40rkAoR
cgFzJna+B5AtA58Ji9hueQvJWu8UbS6stMoqiwA9lrPn7Qfw3o99vnPYhHyL2L0mghhOz2Xue+tJGIltBIm9haQPdgufsB
utxp4LQlc1M+C5tSLt1TSWJyy26Jvipd2NfTTJPHU/kmlxariS8RX6w2fhwwt+i82OC/ER3fX2+Ze7HBJbp0iGieCQh54dp
SaCBaOz8SmbukfY0C1STJAHIZkdQe947d6khkYau3KKZrNktzs77MwYawoTCuTFqEDytHY1PPxqSEQPPwY3WoOeu0
WzPbGtIoNH6tTdzt1BX2ky3w7mSZAnkA95sQge3eRmfMdAQhh8pwLFL94ACR/9VkOzvbB5oX0LnuaEz9xoS/YORcN
ROGY7jn/nREE5bwCRwFwtveOQtBgoSJc9rnzggOWm27nUCBcnws1wI3OPgeOpVVQqCkdynqU+rLWQx+fwxEtTEEZ
XBLoO4KjcpzAqScZWQbczRNphZOq+CBHcNkuQmSs+hm4enHw1hXBWM9o39PS4XW161oyBhIZt2MishP/imy3kC
DUEAyo3LpZe2m/BUDYlmtdjbUoDYtIQNyRUkLPj7jdNE5g4hIKVUQWK5BszRQh3PWBf0pncUJCAhRjJDGPZokbdtpiC
MooYHs8rZ4WehKuIhnZqM0YIKSo+czsmnIRFKpxyyArfd8FY7GoKRzlSg7gSInqsj2UwdYVZh+c+9jATMZj2J0rUi7ix0Y
sFsFt9qIrtR5PA9o10wYPx0nlpDjJRhD4Xi0MoP6NnTj4KEQ4WJFvNbXlDWZ+1oCCwujWhYg7S3sVQR0bDUYj3GI+3xp
a81BPoah+3T/UvDygqqlShDNxIq2q8dftD7W4GGRLyBYT0ujdRRedOwOgKRgvMiS446z2JqwjKfMJUJextCm87dqCHlj
+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 mantain 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": "TOTP00000035",
   "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 TaskInstace, 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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