SMTP Authentication API

API Documentation

Corresponding software version:
Celonis Process Mining 4.7.3.2

Revision History

Version	Date	Description	Author
1.0	10.10.2022	Initial creation	Andrii Kovalenko

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Description

Each mail service provider has different rules, limits and API for authentication token update (refresh, rotation). Hence, Celonis can not implement an auto-refresh mechanism. Instead, our application exposes an API endpoint for SMTP password/token updates. If your SMTP provider only supplies short-lived tokens, we recommend implementing and configuring periodic auto-refresh scripts, using your preferred tools (script languages, scheduled jobs, etc.).

Notes:

- For now only an API to update the SMTP password (token) is available.
- For now only the authentication type *OAuth 2.0 (XOAUTH2) SASL* is available.

Prerequisites

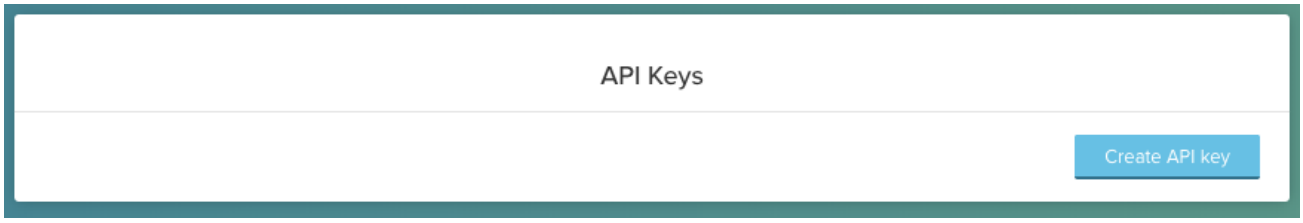
Celonis User & API Key Setup

In order to operate the SMTP Authentication API, it is recommended to set up a separate Celonis user with API token access. The endpoints will be accessed in the name of this user.

The following has to be configured for the user:

- *System Administrator* role
- the user needs to have a valid Celonis API key

To create the Celonis API key, log into the profile of the respective user and open the *My Profile* section. The bottom of the page shows the option to create an API key:

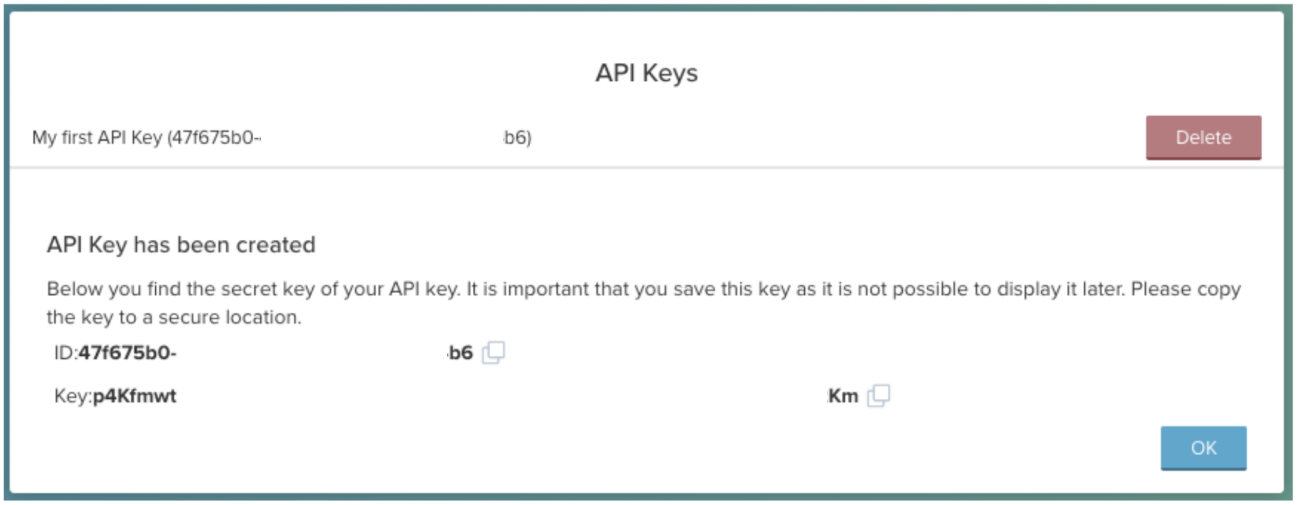


API Keys configuration

After creating the key, the **key-ID** (**X-API-ID**) and the **token key** (**X-API-TOKEN**) are displayed. These two values, together with the username (**X-API-USER**) are required for authentication to the endpoints.

Notes:

- The key is *only* valid for the respective user (**X-API-USER** in the following) on the CPM4 instance it is created on
- The token key (**X-API-TOKEN**) is only visible once upon creation of the API Key. After clicking “OK” in the bottom right corner, it is no longer visible. Store it in a safe place.
  If the token is lost, a new API key has to be created.



API Key configuration

First-time *Mail → SMTP Server Configuration* setup

Pre-configure your SMTP connection in the Web UI:

1. Navigate to *System Settings → Mail*
2. Select either *ssl* or *tls* authentication
3. Select the `OAuth 2.0 (XOAUTH2)` SASL Authentication type
4. The password field is now used for the OAuth token

Methods

Update SMTP password (token)

Request

Method	URL
PUT	api/configuration/smtp/password

Type	Params	Values
HEAD	Content-Type	application/json
HEAD	X-API-USER	string
HEAD	X-API-ID	string
HEAD	X-API-TOKEN	string
PAYLOAD (JSON)	password	string

X-API-USER
`X-API-USER` must be sent with all client requests. This refers to the *username* that was used to create the `X-API-TOKEN` and helps the server to validate the request source.

X-API-ID and **X-API-TOKEN**
`X-API-ID` and `X-API-TOKEN` must be sent with all client requests. This helps the server to validate the request source. The Token is equivalent to the API Key generated here.

Curl example

```
$ curl -v -X PUT 'http://<server-url>/api/configuration/smtp/password \
     -H 'Content-Type: application/json' \
     -H 'X-API-USER:sysadmin \
     -H 'X-API-ID:3ec99906-b10f-4ed2-8690-150596873256'
     -H 'X-API-TOKEN:djLRlkxi4mM2dwLPFA89sDbjcM3x1opuDdJhDhlglyW9ogqtoVt7' \
     --data '{"password":"ABCDEFGH123456789"}'
```

Response

Status	Response
204	No Content
403	<<no content>>
400	{"globalErrors":["Password must be not blank"]}
404	{"globalErrors":["SMTP connection is not configured"]}
500	{"globalErrors":[...]"}

Glossary

Conventions

- **Client** - HTTP Client tool
- **Status** - HTTP status code of response.

Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success
4XX - Error from client side (permissions, request format errors etc)
5XX - Error occurred on server side