

Authentication

Definition

Soffid could use different kinds of external authentication sources. These mechanisms could be selectively enabled or disabled.

Screen overview

The screenshot displays the Soffid administration interface. At the top, there is a navigation bar with the Soffid logo, a search bar, and a settings icon. Below the navigation bar, the breadcrumb trail reads: [Main Menu](#) > [Administration](#) > [Configuration](#) > [Security settings](#) > Authentication.

Global status

- Soffid server host name:
- Yes No Enforce TLS connections to Soffid console
- Yes No Maintenance mode (only administrators can log in)
- Message to display before logging in:
- Session timeout in minutes:

Username and password

- Yes No Enabled
- Yes No Forward authentication requests to trusted target systems

External SAML identity provider

- Yes No Enabled
- SAML federation metadata URL:
- Cache limit (seconds):
- Identity provider:
- SAML attribute containing user name:
- Yes No Enable SAML debug log

External SAML identity provider

- Yes No Enabled
- SAML federation metadata URL:
- Cache limit (seconds):
- Identity provider:
- SAML attribute containing user name:
- Yes No Enable SAML debug log

API webservice authentication

Yes No III User name and password

Yes No III JWT token

JWT configuration URL:

JWT Issuer:

JWT Audience:

Maximum requests per user and minute:

Maximum global requests per minute:

Maximum request size:

Enable LinOTP integration

III No Enabled

LinOTP server URL:

LinOTP admin user:

LinOTP admin password:

LinOTP users domain:

Second Factor Authentication configuration

Pages that optionally require OTP authentication for users with a enabled token:

Pages that require OTP authentication to any user:

Second factor authentication period: seconds. After that time, a new OTP value will be required.

[Download metadata](#) [Confirm changes](#)

Standard attributes

Global status

- **Soffid server host name**
- **Enforce TLS connections to Soffid console:** If you check this option, it will be is mandatory to restart the Soffid Console

Once you check the **Enforce TLS connections to Soffid Console** option, there are no easy way to come back. You should use this option only en Production environments.

 **Image**

Global status

Soffid server host name:

https://pat.soffid.lab:8443

Yes No

Enforce TLS connections to Soffid console

Yes No

Maintenance mode (only administrators can log in)

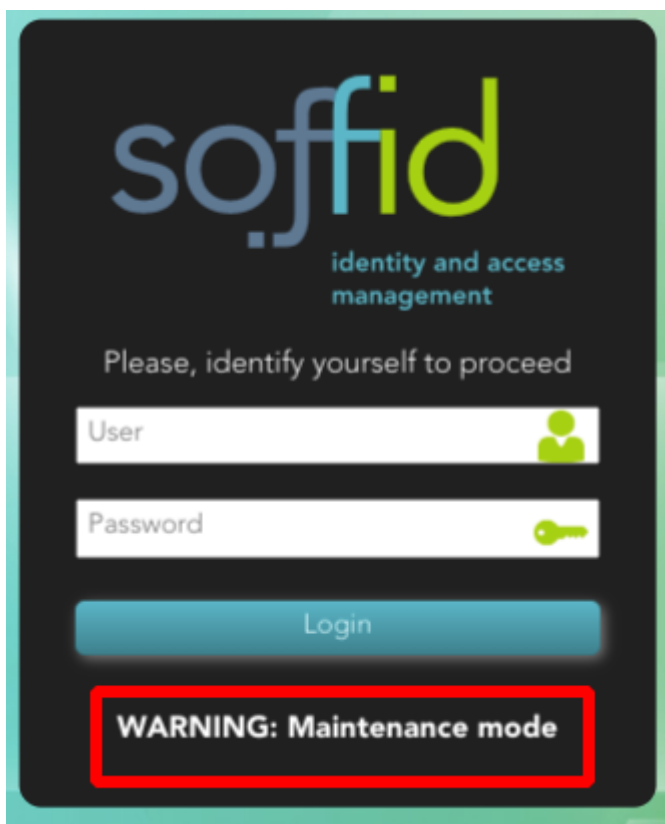
Message to display before logging in:

Session timeout in minutes:

1000

- **Maintenance mode (only administrators can log in):** if this option is checked (value is Yes), only the administrators could connect to Soffid Console.

Image

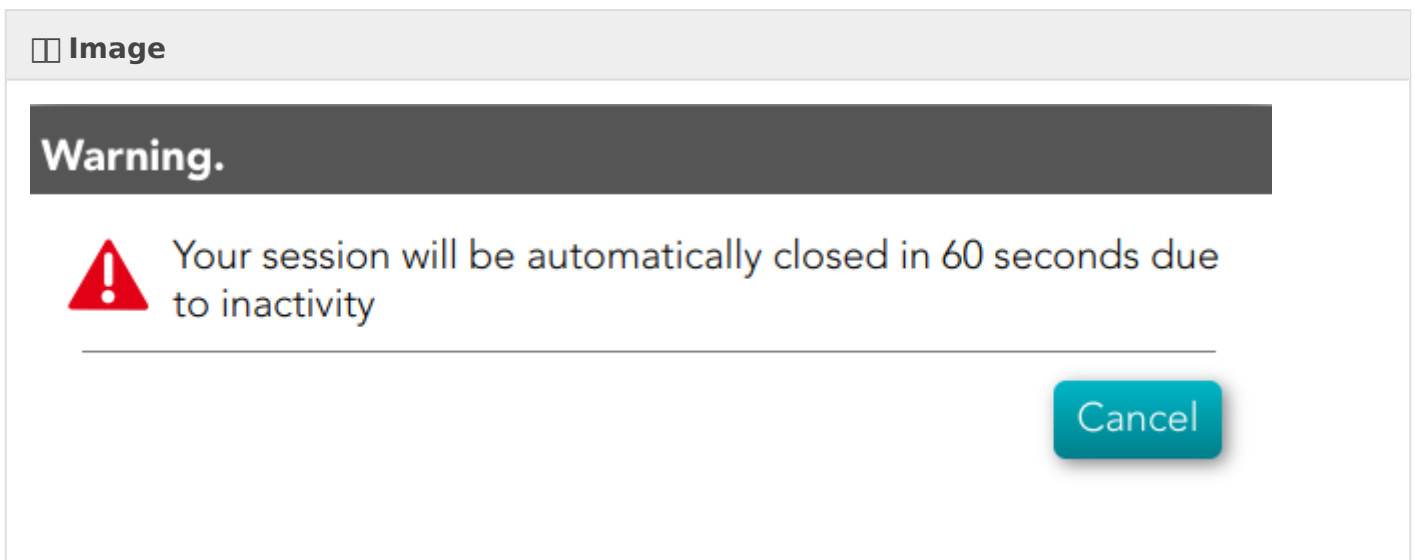


- **Message to display before logging in:** administrators can configure a banner that will be displayed before the user logging in. This banner will display security advice.

Image



- **Session timeout in minutes:** time in seconds it takes for the console to display the message indicating that the session is being closed. If nothing is indicated, the session does not expire. (Available since console version 3.5.26)



Username and password

Internal

- **Enabled:** the only one enabled by default in the installation of Soffid. It is the internal username and password authentication mechanism. Therefore, the authentication is made with the username and password of the soffid account.

External

- **Forward authentication requests to trusted target systems:** to use external username and password sources. Therefore, the authentication is made with the username and password of an account of an external system.

Not all the external systems are included, only the ones that have marked the check "Trust password" on the agent. For more information about agents please visit the [Agents](#) page.

Once an agent is configured, Soffid will still use its internal tables to authenticate usernames and passwords.

If the password entered by the user does not match, the Soffid core will issue a "ValidatePassword" task for each trusted target system. If any of the trusted target systems accepts the password, it will be hashed and stored in Soffid tables and login will be accepted.

External SAML identity provider

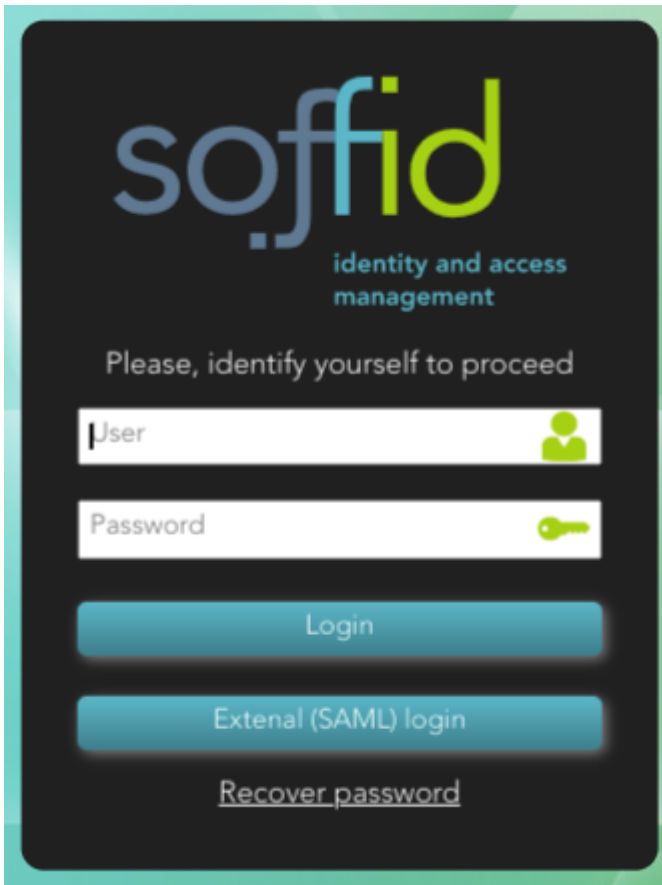
It should be noted this feature does not depend on the federation addon. That is a feature included by default in the Soffid smart engine to allow you to include in the authentication flow a mechanism to use a third-party SAML system.

- **Enable:** check it (select value Yes) to use an external SAML Identity Provider.
- **Soffid Server host name:** the URL that will be used by external IdP. This URL will be resolved by end user's browser in order to send the SAML assertion.
- **SAML federation metadata:** the URL where federation information can be found. If the Soffid console can fetch federation metadata, the Identity provider drop-down will be filled in with any identity provider found in the federation metadata URL.
- **Cache limit (seconds):** how often the federation information will be refreshed. By default, 10 minutes will be taken.
- **Identity provider:** Identity Provider to use for authentication.

Finally, download the Soffid Console and load it into your SAML Identity Provider federation.

If SAML Identity Provider is enabled, as well as username and password, the user will have the chance to select the preferred authentication method. Otherwise, if only SAML is enabled, the user will be automatically redirected to SAML Identity Provider.

 **Image**



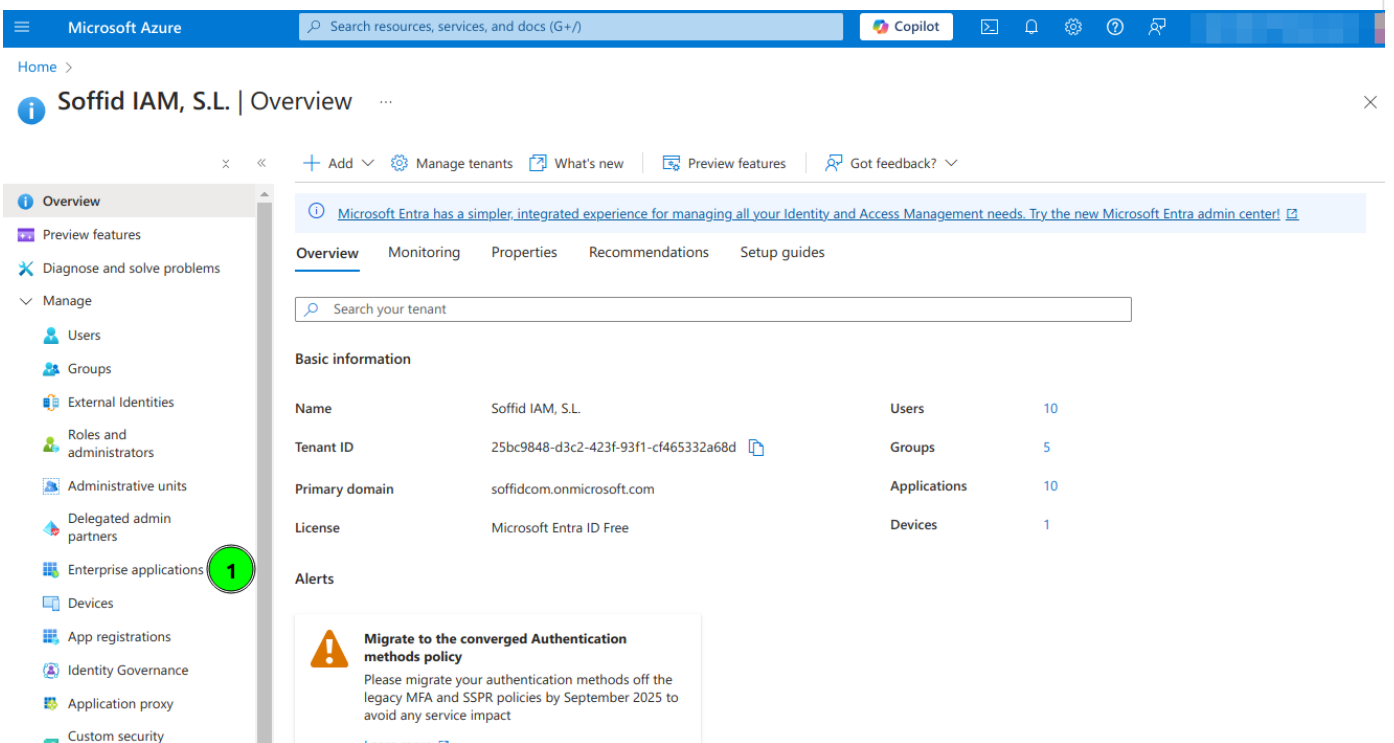
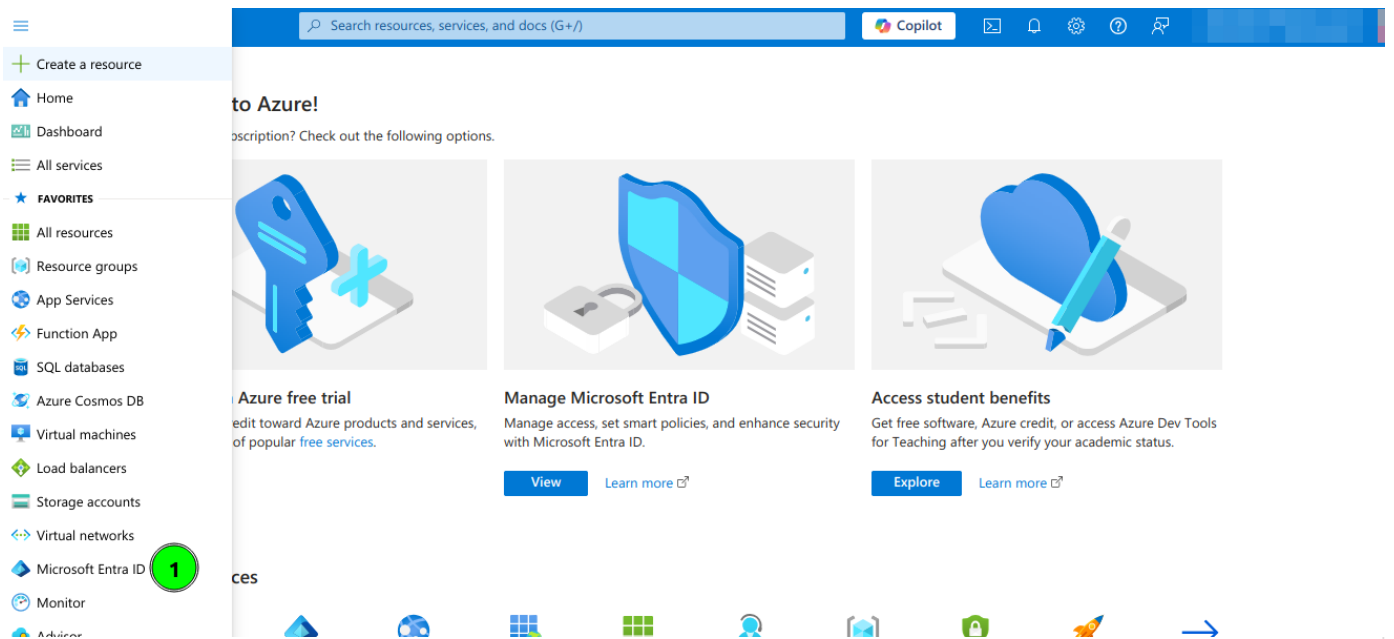
☐ Office 365 as External SAML identity provider

Introduction

Steps to configure Office 365 as External SAML identity provider.

Step-by-Step

1. Open a <https://portal.azure.com>
2. Open **Microsoft Entra ID** and then select **Enterprise applications** option



3. Select **All applications** and click **New Application**

Microsoft Azure Search resources, services, and docs (G+) Copilot

Home > Enterprise applications

Enterprise applications | All applications

Soffid IAM, S.L.

2

+ New application Refresh Download (Export) Preview info Columns Preview features Got feedback?

Overview

Manage

1 All applications

Private Network connectors

User settings

App launchers

Custom authentication extensions

Security

Activity

Troubleshooting + Support

View, filter, and search applications in your organization that are set up to use your Microsoft Entra tenant as their Identity Provider.

The list of applications that are maintained by your organization are in [application registrations](#).

Search by application name or object ID Application type == Enterprise Applications Application ID starts with Add filters

11 applications found

Name	Object ID	Application ID	Homepage URL	Created on	Certificate Expir...	Active Certificat.
GE				/12/2020	-	-
S				0/23/2024	Current	10/23/2027
SC				/20/2020	-	-
O				/25/2022	-	-
				0/23/2024	-	-
PA				/29/2020	-	-
TS				1/28/2023	-	-
AI				/10/2020	-	-

4. Select Create your own application

Microsoft Azure Search resources, services, and docs (G+) Copilot

Home > Enterprise applications | All applications >

Browse Microsoft Entra Gallery

1


+ Create your own application Got feedback?

The Microsoft Entra App Gallery is a catalog of thousands of apps that make it easy to deploy and configure single sign-on (SSO) and automated user provisioning. When deploying an app from the App Gallery, you leverage prebuilt templates to connect your users more securely to their apps. Browse or create your own application here. If you are wanting to publish an application you have developed into the Microsoft Entra Gallery for other organizations to discover and use, you can file a request using the process described in [this article](#).


Search application Single Sign-on : All User Account Management : All Categories : All

Cloud platforms


Amazon Web Services (AWS)



Google Cloud Platform



Oracle




SAP

5. Type the name of your app and select the "Integrate any other application you don't find in the gallery (Non-gallery)" option

Create your own application



 Got feedback?

If you are developing your own application, using Application Proxy, or want to integrate an application that is not in the gallery, you can create your own application here.

What's the name of your app?

pat.soffid.lab



What are you looking to do with your application?

- Configure Application Proxy for secure remote access to an on-premises application
- Register an application to integrate with Microsoft Entra ID (App you're developing)
- Integrate any other application you don't find in the gallery (Non-gallery)

Create

6. Click on **Set up single sign on**

Microsoft Azure Search resources, services, and docs (G+)

Home > Enterprise applications | All applications > Browse Microsoft Entra Gallery >

pat.soffid.lab | Overview

Enterprise Application

- Overview
- Deployment Plan
- Diagnose and solve problems
- Manage
 - Properties
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 - Roles and administrators
 - Users and groups
 - Single sign-on
 - Provisioning
 - Application proxy
 - Self-service
 - Custom security attributes
- Security
- Activity

Properties

Name: pat.soffid.lab

Application ID: 6bb554ed-b96d-4631-9204-...

Object ID: 76afac14-c10f-4dde-94f7-8d...

Getting Started

- 1. Assign users and groups**
Provide specific users and groups access to the applications
[Assign users and groups](#)
- 2. Set up single sign on**
Enable users to sign into their application using their Microsoft Entra credentials
[Get started](#)
- 3. Provision User Accounts**
- 4. Conditional Access**

7. Click the **SAML** option

Microsoft Azure Search resources, services, and docs (G+)

Home > Enterprise applications | All applications > Browse Microsoft Entra Gallery > pat.soffid.lab

pat.soffid.lab | Single sign-on

Enterprise Application

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Single sign-on (SSO) adds security and convenience when users sign on to applications in Microsoft Entra ID by enabling a user in your organization to sign in to every application they use with only one account. Once the user logs into an application, that credential is used for all the other applications they need access to. [Learn more.](#)

Select a single sign-on method [Help me decide](#)

- Disabled**
Single sign-on is not enabled. The user won't be able to launch the app from My Apps.
- SAML**
Rich and secure authentication to applications using the SAML (Security Assertion Markup Language) protocol.
- Password-based**
Password storage and replay using a web browser extension or mobile app.
- Linked**
Link to an application in My Apps and/or Office 365 application launcher.

8. Enter the **Basic SAML Configuration** and Save:

- **Identifier:** https://<YOUR-SERVER>/soffid-iam-console
- **Reply URL:** https://<YOUR-SERVER>/soffid/saml/log/post
- **Sign on URL:** https://<YOUR-SERVER>/soffid/
- **Logout URL:** https://<YOUR-SERVER>/soffid/saml/slo/post

Microsoft Azure Search resources, services, and docs (G+)

Home > Enterprise applications | All applications > soffid.pat.lab

soffid.pat.lab | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

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 - Custom security attributes

Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. [Learn more.](#)

Read the [configuration guide](#) for help integrating soffid.pat.lab.

1 Basic SAML Configuration Edit

Identifier (Entity ID)	https://pat.soffid.lab:8443/soffid-iam-console
Reply URL (Assertion Consumer Service URL)	https://pat.soffid.lab:8443/soffid/saml/log/post
Sign on URL	https://pat.soffid.lab:8443/soffid/
Relay State (Optional)	Optional
Logout Url (Optional)	https://pat.soffid.lab:8443/soffid/saml/slo/post

2 Attributes & Claims Edit

givenname	user.givenname
-----------	----------------

Basic SAML Configuration



Save

Got feedback?

Identifier (Entity ID) * ⓘ

The unique ID that identifies your application to Microsoft Entra ID. This value must be unique across all applications in your Microsoft Entra tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

	Default
<input type="text" value="https://pat.soffid.lab:8443/soffid-iam-console"/>	<input checked="" type="checkbox"/> ⓘ

[Add identifier](#)

Reply URL (Assertion Consumer Service URL) * ⓘ

The reply URL is where the application expects to receive the authentication token. This is also referred to as the "Assertion Consumer Service" (ACS) in SAML.

	Index	Default
<input type="text" value="https://pat.soffid.lab:8443/soffid/saml/log/post"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ⓘ

[Add reply URL](#)

Sign on URL (Optional)

Sign on URL is used if you would like to perform service provider-initiated single sign-on. This value is the sign-in page URL for your application. This field is unnecessary if you want to perform identity provider-initiated single sign-on.

Relay State (Optional) ⓘ

The Relay State instructs the application where to redirect users after authentication is completed, and the value is typically a URI or URI path that takes users to a specific location within the application.

9. Configure **Attributes & Claims** and change the attributes and claims to send the mailnickname as the user identifier (nameid)

soffid.pat.lab | SAML-based Sign-on

Enterprise Application

Upload metadata file Change single sign-on mode Test this application Got feedback?

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Read the [configuration guide](#) for help integrating soffid.pat.lab.

1 Basic SAML Configuration Edit

Identifier (Entity ID)	https://pat.soffid.lab:8443/soffid-iam-console
Reply URL (Assertion Consumer Service URL)	https://pat.soffid.lab:8443/soffid/saml/log/post
Sign on URL	https://pat.soffid.lab:8443/soffid/
Relay State (Optional)	Optional
Logout Url (Optional)	https://pat.soffid.lab:8443/soffid/saml/slo/post

2 Attributes & Claims **1** Edit

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.mailnickname

3 SAML Certificates

Attributes & Claims

+ Add new claim + Add a group claim Columns Got feedback?

Required claim

Claim name	Type	Value
Unique User Identifier (Name ID)	SAML	1 user.mailnickname [nam... ⋮

Additional claims

Claim name	Type	Value
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailadd...	SAML	user.mail ⋮
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	SAML	user.givenname ⋮
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	SAML	user.userprincipalname ⋮
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	SAML	user.surname ⋮

Advanced settings

10. Copy the App Federation Metadata Url

Microsoft Azure | Search resources, services, and docs (G+ /) | Copilot

Home > soffid.pat.lab

soffid.pat.lab | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

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givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.mailnickname

SAML Certificates

Token signing certificate Edit

Status: Active

Thumbprint: 560B064826325CB89F0CE229BDBDEE3A20E64587

Expiration: 10/23/2027, 4:14:18 PM

Notification Email: admin@soffidcom.onmicrosoft.com

App Federation Metadata Url: <https://login.microsoftonline.com/25bc9848-d3c2-423f-93f1-cf465332a68d/> 1

Certificate (Base64): [Download](#)

Certificate (Raw): [Download](#)

Federation Metadata XML: [Download](#)

Verification certificates (optional) Edit

Required	No
Active	0
Expired	0

11. Configure the External SAML identity Provider in the Soffid Console Authentication page

soffid | Search

Main Menu > Administration > Configuration > Security settings > Authentication 1

Global status

No Maintenance mode (only administrators can log in)

Message to display before logging in:

Session timeout in minutes:

Username and password

Yes Enabled

No Forward authentication requests to trusted target systems

External SAML identity provider

Yes Enabled 2

Soffid server host name:

SAML federation metadata URL: 3

Cache limit (seconds):

Identity provider: 4

SAML attribute containing user name:

No Enable SAML debug log

12. Optional, enable any user to login

Webservice authentication

Soffid allows you to configure the way to verify the identity of a user or system accessing to the Soffid Web Service, to ensure that only authorized entities can interact with the service.

- **User name and password:** allows you to use user and password to access to the Soffid Web Service.
- **JWT token:** allows you to use JWT token to access to the Soffid Web Service.
 - **JWT configuration URL:** URL where the jwks.json are available to download.
 - **JWT Issuer:** identifies the principal that issued the JWT.
 - **JWT Audience:** identifies the recipients that the JWT is intended for.

Bear in mind that the Identity Provider needs to have enabled the OpenID profile.

Also, the Identity Provider cert must be in the Console cacerts.

Webservice authentication

Yes No User name and password

Yes No JWT token

JWT configuration URL:

https://sync-server.netcompose:1443/.well-known/jwks.json

JWT Issuer:

https://sync-server.netcompose:1443

JWT Audience:

angularApp

Enable LinOTP integration

Soffid allows you to use an external OTP, LinOTP in this case. If you decide to use LinOTP, Soffid could be configured to request the user to authenticate using a second factor authentication to perform certain actions. In another case, you can use the Soffid OTP.

- **Enabled:** check it (select value Yes) to use an external SAML Identity Provider.
- **LinOTP server URL:** URL of your LINOTP service.
- **LinOTP admin username:** username of the admin account used by Soffid.
- **LinOTP admin password:** password of the admin account used by Soffid.
- **LinOTP users domain:** the user's domain for LinOTP authentication. The selected user domain will guess the LinOTP username for any Soffid identity. It is extremely important when LinOTP users do not match Soffid usernames. Please visit the [Account naming rules](#) page for more information

If you want to configure the **Soffid OTP** you could visit [Two factor authentication \(2FA\)](#) chapter.

Second Factor Authentication configuration

- **Pages that optionally require OTP authentication for users with an enabled token:** (Optional) If a URL optionally requires OTP authentication, and the user does not have any OTP token, access will be granted. Otherwise, if the user has an OTP token, the OTP value will be required, and no access will be allowed until the user provides the right token value.
 - You can include the list of pages to include the two factors only for the users with the token.

☐ Example

Request only the OTP for these pages:

Pages that optionally require OTP authentication for users with a enabled token:

```
/resource/user/user.zul  
/resource/account/account.zul
```

- ○ You can add a regular expression to determine the list of pages to always include the second factor to the users with the token

☐ Example

Request OTP for all pages except those containing menu.zul or otp.zul:

Pages that optionally require OTP authentication for users with a enabled token:

```
(?!((.*menu.zul.*)|(.*otp.zul.*))).*
```

- **Pages that require OTP authentication to any user:** (Mandatory) You should include the list of pages to always include the second factor to the users with the token. Therefore, if a URL strictly requires OTP authentication, users with no token won't be allowed to use them.

☐ Example

Second Factor Authentication configuration

Pages that optionally require OTP authentication for users with a enabled token:

```
/addon/otp/otp.zul
```

Pages that require OTP authentication to any user:

```
/main/menu.zul?.*option=vault.*  
/resource/account/vault.zul
```

Second factor authentication period:

seconds. After that time, a new OTP value will be required.

- **Second factor authentication period:** number of seconds after that, a new OTP value will be required.

In both configurations, if OTP is required by the user, a popup requesting the token value is raised to write the OTP value.

Actions

Download metada	Allows you to download an XML file with metadata to load it into your SAML Identity Provider federation when you use an External SAML identity provider
Confirm changes	Allows you to save the changes made in the Authentication setup.

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