

# Using KeePass as an MFA sign-in method with Azure AD / Microsoft 365

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## Intro

For users who are unable to make use of any of the the recommended MFA methods listed here [MFA for Microsoft 365 \(sharepoint.com\)](#) there is another option using the the TOTP protocol.

KeePass, the well-known password manager, ships with a built-in support for TOTP protocol, making it good candidate for using in the MFA process.

The following step-by-step guide shows how to add KeePass as an authenticator-app.

**Note: TOTP is not supported for ACP level 3 applications**

## Prerequisite

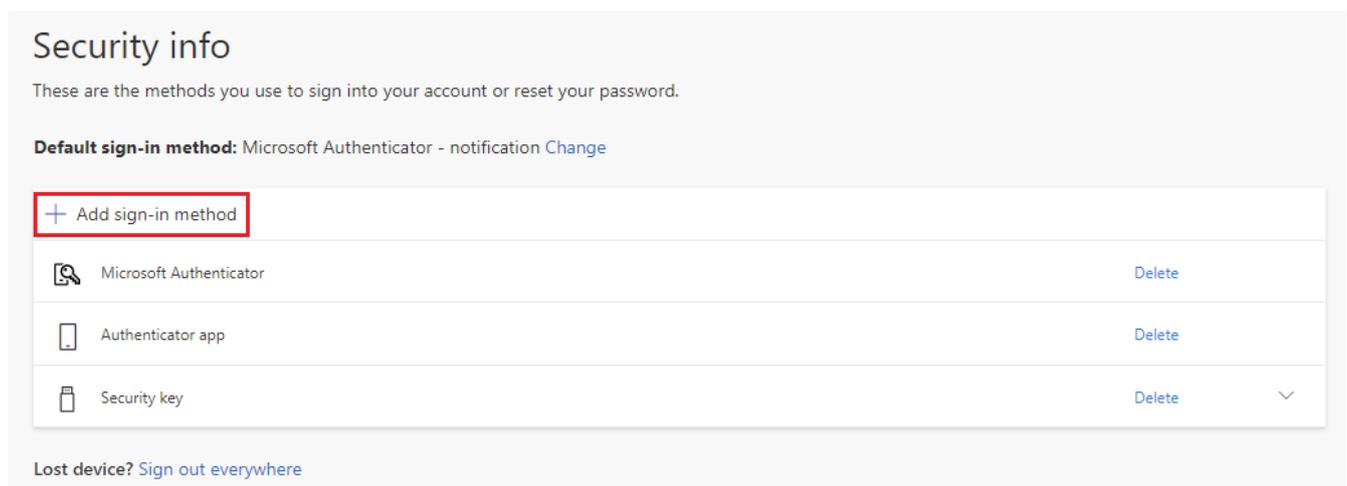
Keepass needs to be installed on your client. If it's not already installed, this can be obtained from the **Software Center, Company Portal**, or downloaded directly from the website: [Downloads - KeePass](#)

With Keepass installed you can proceed to the step-by-step guide.

## Steps for configuring KeePass as and MFA sign-in method

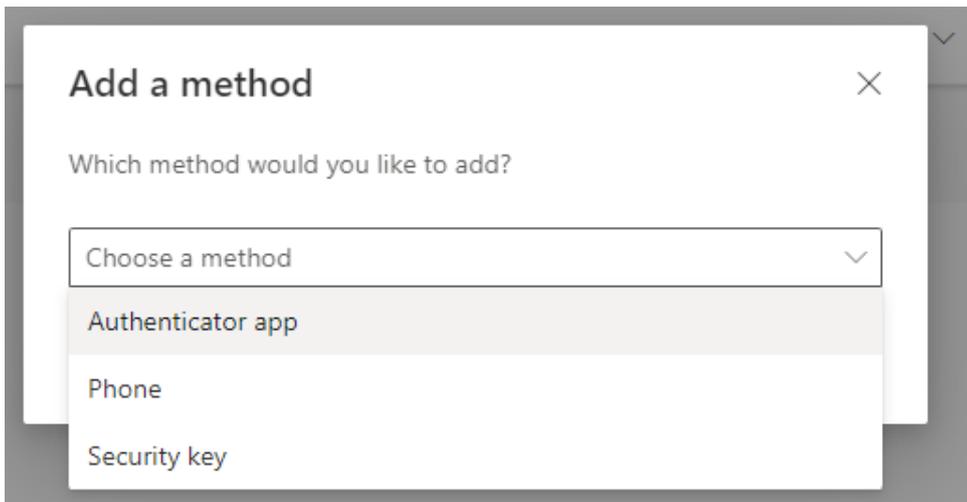
On the account you wish to setup the new MFA authentication method, visit the **Security Info** page: <https://mysignins.microsoft.com/security-info>

Click on **Add sign-in method**



The screenshot shows the 'Security info' page in a Microsoft account interface. The title is 'Security info' and the subtitle is 'These are the methods you use to sign into your account or reset your password.' Below this, it says 'Default sign-in method: Microsoft Authenticator - notification' with a 'Change' link. A table lists the current sign-in methods: 'Microsoft Authenticator', 'Authenticator app', and 'Security key'. Each method has a 'Delete' link. A red box highlights the '+ Add sign-in method' button at the top left of the table. At the bottom of the page, there is a link: 'Lost device? Sign out everywhere'.

On the **Add a method** screen select **Authenticator app** then click **Add**



By default, the wizard suggests using the Microsoft Authenticator App. Here you need to click the option **I want to use a different authenticator app**

## Microsoft Authenticator



### Start by getting the app

On your phone, install the Microsoft Authenticator app. [Download now](#)

After you install the Microsoft Authenticator app on your device, choose "Next".

[I want to use a different authenticator app](#)

Cancel

Next

On the Authenticator App screen simply click **Next**

## Authenticator app



### Set up your account

In your app, add a new account.

Back

Next

On the **Scan the QR** code screen, click on "Can't scan image?". Once clicked, the will expand to confirm your account name and Secret key.

This is the information needed by TOTP protocol to work. Copy it, pressing the small icon on the right and click next.

# Authenticator app



## Scan the QR code

Use the authenticator app to scan the QR code. This will connect your authenticator app with your account.

After you scan the QR code, choose "Next".



Can't scan image?

Enter the following into your app:

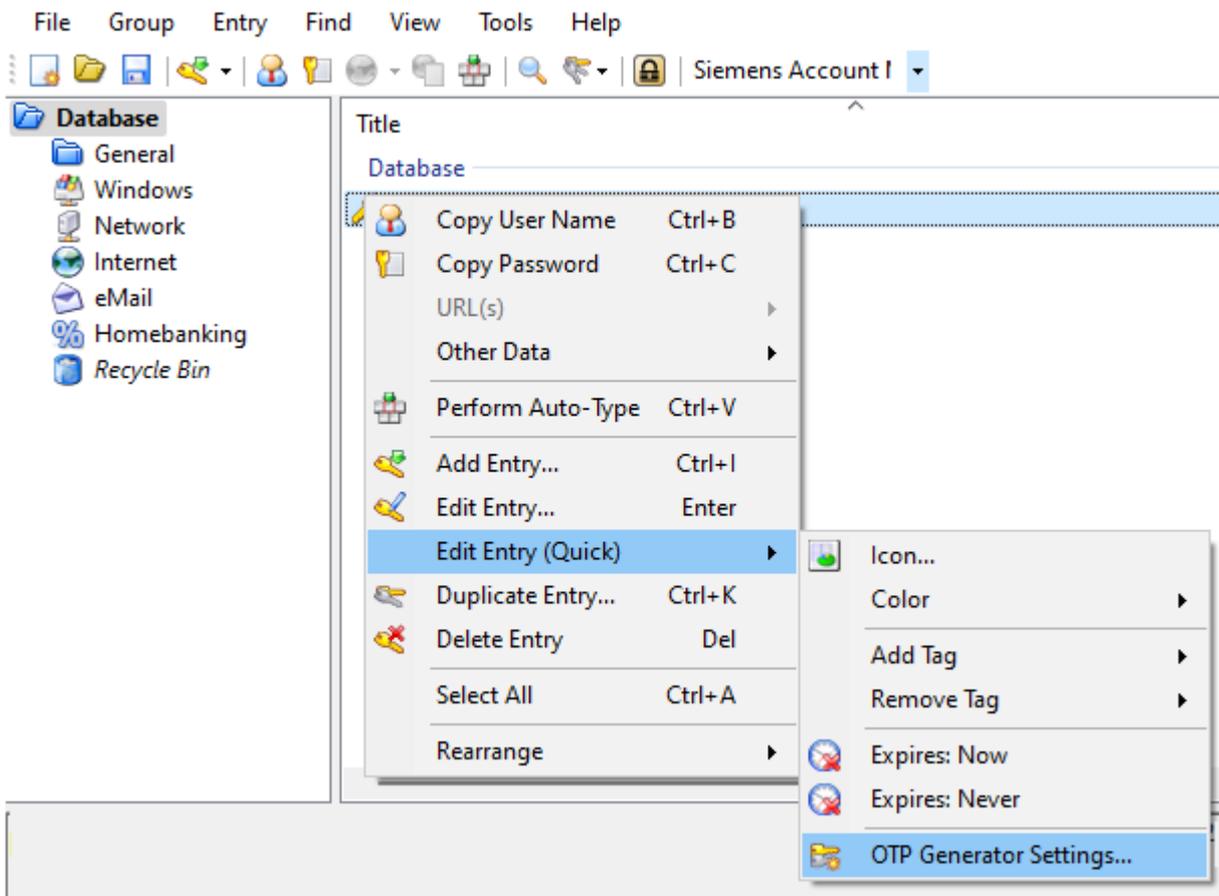
**Account name:** Siemens AG: Your.Account@Siemens.com

**Secret key:** qazaxzbbgahga23

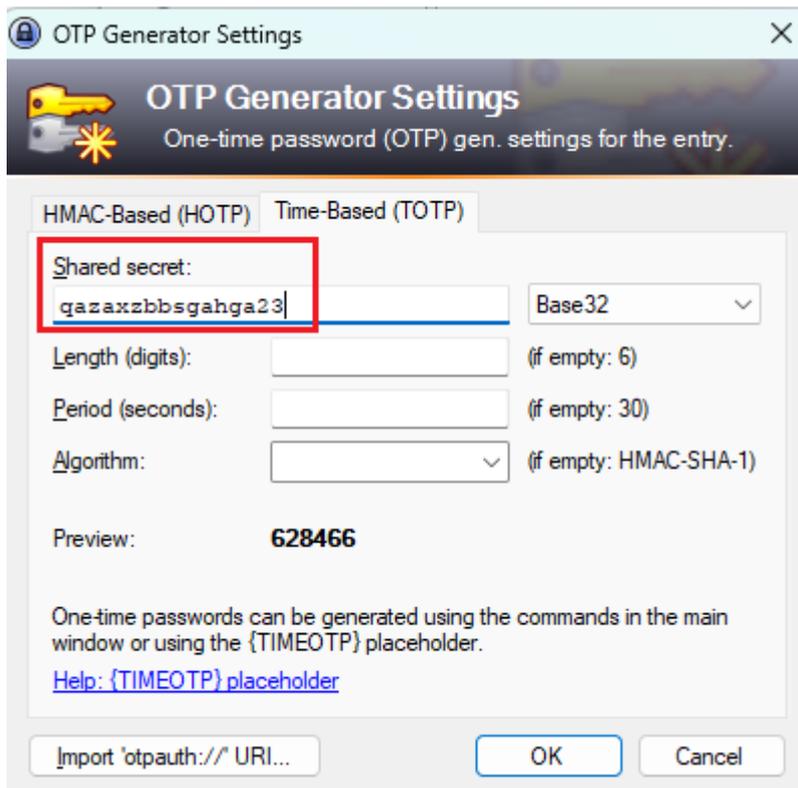
Back

Next

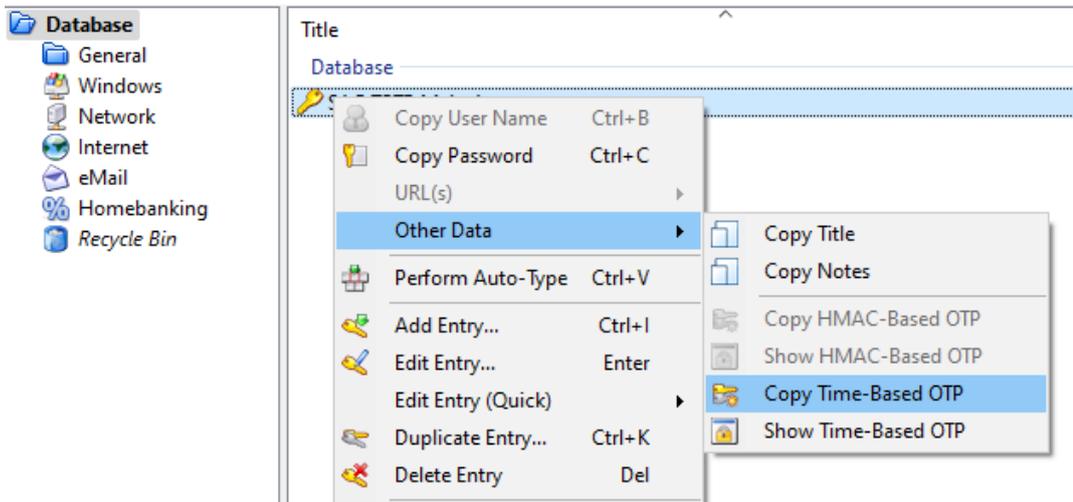
In KeepPass, right click on the entry where you want to store the code, select **Edit entry (quick)** and then choose **OTP Generator Setting...**



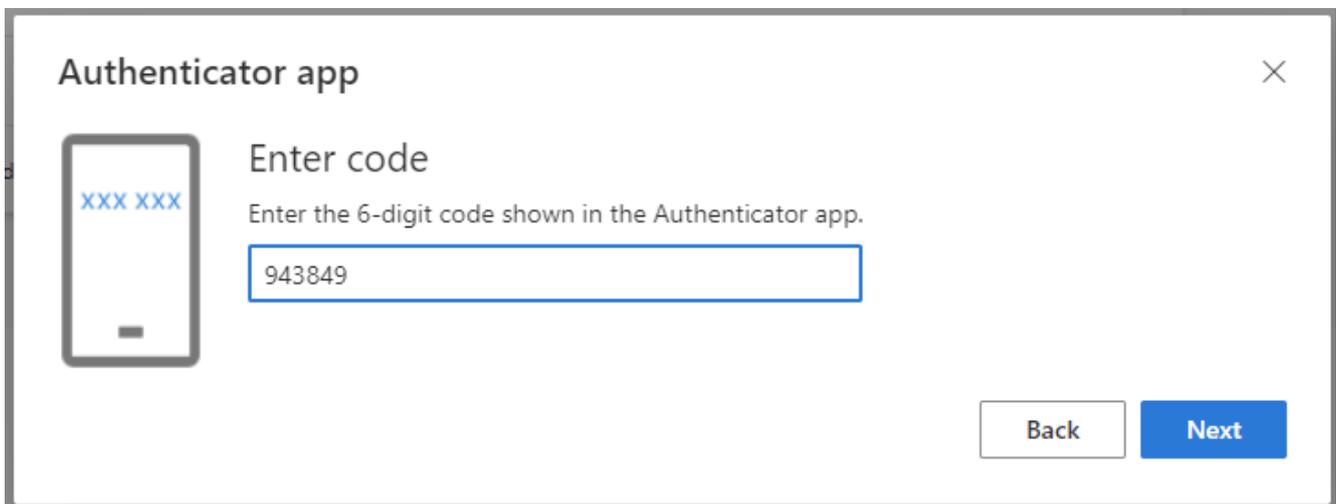
In the OTP Generator Settings screen, paste in the secret key previously copied from the Authenticator App configuration screen and click OK.



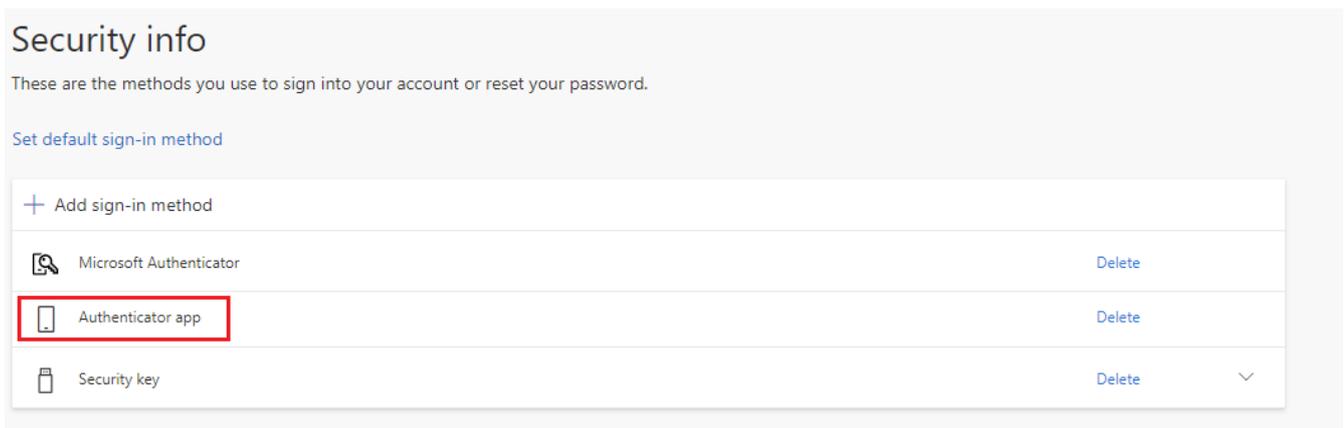
In KeePass, Right click on the KeePass Entry, expand **Other Data** then click **Copy Time-Based OTP**



Paste the Time-Based OTP code into the Authenticator App configuration screen and click **Next**.



The new KeePass TOTP method will now be shown in the sign-in methods list as **Authenticator App** (Note: It's not currently possible to rename or add a description here)



## Signing in using using the KeePass TOTP MFA method

Enter username and password then click sign-in

# SIEMENS

My.Account@siemens.com

## Enter password

.....

[Forgot my password](#)

[Use a certificate or smart card](#)

[Sign in with another account](#)

Sign in

Depending on the MFA methods that are configured in the account, the next option can vary.

If you the **Verify your identity** screen is displayed, click on **Use a verification code**

# SIEMENS

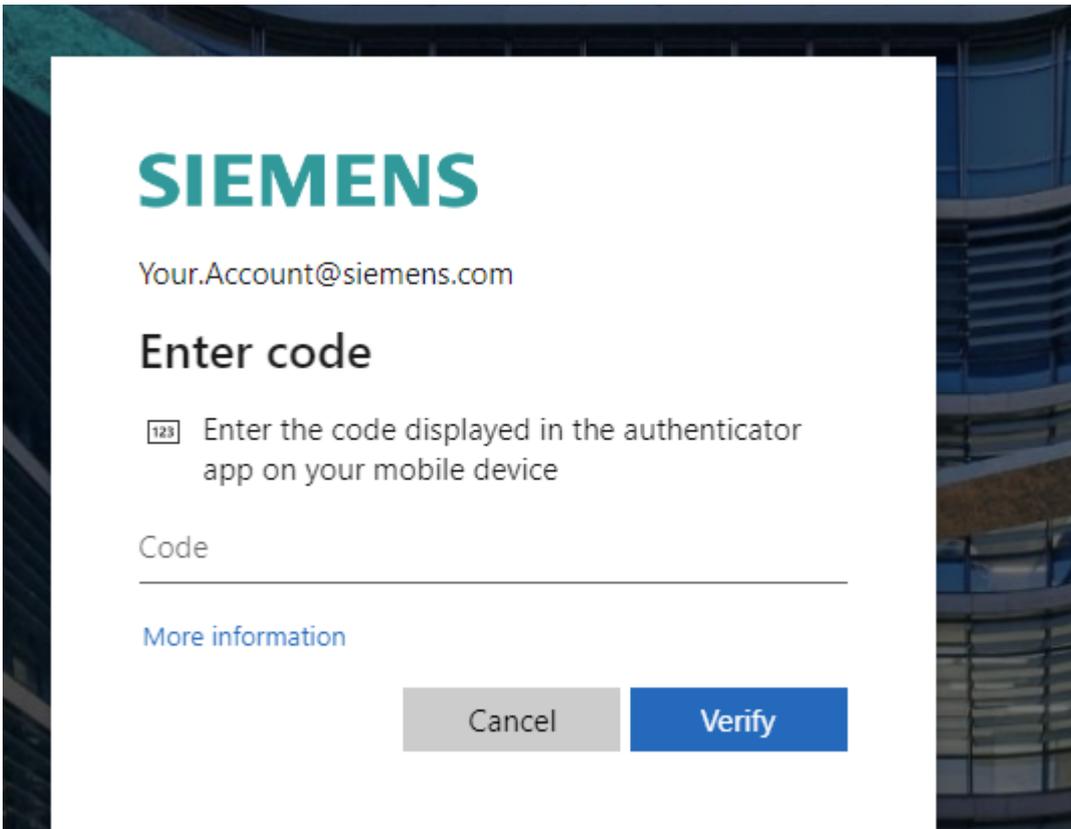
Your.Account@siemens.com

## Verify your identity

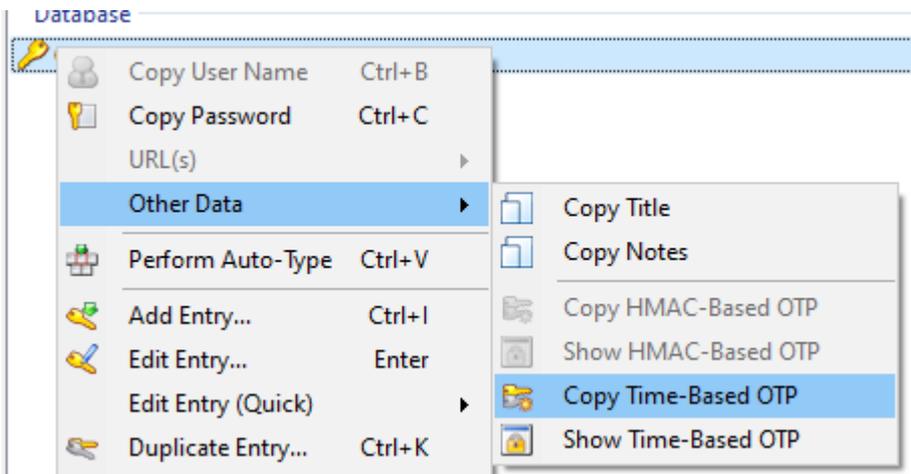
Use a verification code

[More information](#)

If there is only one MFA Authentication method configured e.g KeePass TOTP, the next screen will be the **Enter Code** screen below.



In KeePass right click the entry (which stores the TOTP information) and choose **Other data** then **Copy Time-Based OTP**



Paste the TOTP code into the Microsoft 365 Enter code Window and click **Verify** to complete the sign-in



← Your.Account@siemens.com

## Enter code

Enter the code displayed in the authenticator app on your mobile device

731441

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[More information](#)

Verify