

Standard Operating Procedure – Configure Azure Entra for FIDO2 Authentication and Register User FIDO2 Passkey

1.0 Purpose:

The purpose of this SOP is to document the configuration of the Thales Azure Entra identity provider to accept and register FIDO2 security authentication tokens.

1.1 Server/Machine affected:

- Azure Entra portal

1.2 Materials Required:

- Credential with at least Authentication Policy Administrative access role to Azure Entra
- Thales E-token Fusion FIPS security token (tested keys with both FIDO 2.0 and 2.1 applet)

1.3 Prerequisites:

- Workstation with access to azure portal.
- Note: Microsoft Edge browser seems to be more stable than Chrome when working with FIDO2 registration on the Azure portal.

2.0 SOP Tasks:

Step 1. Sign in to the Azure Portal and navigate to the Entra Admin center. Please note that this is different than the traditional Azure AD Identity interface.

- 1) Open a browser and navigate to Portal.Azure.US. (Tested with gov/national Azure cloud)
- 2) Enter username and password credentials.
- 3) Navigate to the Microsoft Entra ID admin console.

Step 2. Enable passkey authentication

- 1) Navigate to the Entra portal (Entra.Microsoft.US).
- 2) In the left menu bar, expand protection and select "Authentication Methods".
- 3) Under Authentication methods select manage "Policies".
- 4) Left click on FIDO2 Security key.
- 5) Click the "Enable" option and select save.

Step 3. Add a step-up authenticator

- 1) Navigate to myaccount.azure.us.
- 2) Login as the user that needs to register a new security key. The Entra identity password will be required.
- 3) In the left menu, click on security info.
- 4) At the security info page, left click "Add sign-in method".
- 5) Select phone from the drop down list.
- 6) Select add.
- 7) Enter the phone number of the mobile phone that will be sent the TOTP code.
- 8) Select next.
- 9) Enter the received code and select next.
- 10) At the verification complete screen, select done.

3.0 Step 3. Register a security key for a user

- 1) Navigate to <https://myaccount.azure.us>.
- 2) Login as the user that needs to register a new security key.
- 3) In the left menu, click on security info.
- 4) At the security info page, left click "Add sign-in method".
- 5) At the "Add a method" window, expand the drop down and select security key.
- 6) Left click add.
- 7) The registering user will be prompted to sign in using two factor authentication. Select next.
- 8) Select next to step up authenticate using TOTP.
- 9) At the "Verify your identity" prompt select the defined phone number for TOTP.
- 10) At the "Enter code" prompt, enter the received code.
- 11) Left click verify.
- 12) At the "Security key" prompt, select USB Device.
- 13) At the "Security key" prompt, select Next.
- 14) At the "Create a passkey on a phone or tablet" prompt, select "Save another way".
- 15) Select external security key.
- 16) At the "Security Key Setup" prompt, left click OK.
- 17) Select OK to continue setup.
- 18) Enter the security key PIN, twice.
- 19) Left click OK.
- 20) Touch the security key to prove presence.
- 21) Enter a name for the Security Key.
- 22) Left click Next.
- 23) At the "Security Key" prompt, left click done.

Step 4. Access Azure resource using FIDO2 key. (Azure portal for this example)

- 1) Navigate to portal.azure.us.
- 2) Enter the full user identity name. (e.g. FIDO2Test@ThalesTCT.onmicrosoft.us.)
- 3) At the "enter password" prompt, select "Use your face, fingerprint, PIN or security key instead"
- 4) At the "Use a saved passkey for login.microsoftonline.us", select "Windows Hello or external security key".
- 5) Enter the security key PIN and left click OK.
- 6) Touch the security key contact point to complete FIDO login.