

NetIQ Advanced Authentication Framework

FIDO U2F Authentication Provider Installation Guide

Version 5.1.0

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Introduction

About This Document

Purpose of the Document

This FIDO U2F Authentication Provider Installation Guide is intended for all user categories and describes how to use the client part of NetIQ Advanced Authentication Framework solution. In particular, it gives instructions as for how to install FIDO U2F authentication provider.

For more general information on NetIQ Advanced Authentication Framework™ and the authentication software you are about to use, see NetIQ Advanced Authentication Framework – Client User's Guide.

Information on managing other types of authenticators is given in separate guides.

Document Conventions

This document uses the following conventions:

Warning. This sign indicates requirements or restrictions that should be observed to prevent undesirable effects.

Important notes. This sign indicates important information you need to know to use the product successfully.

- **ONOTES.** This sign indicates supplementary information you may need in some cases.
- **? Tips.** This sign indicates recommendations.
 - Terms are italicized, e.g.: *Authenticator*.
 - Names of GUI elements such as dialogs, menu items, and buttons are put in bold type, e.g.: the **Logon** window.

System Requirements

Before installing the product, check that the following system requirements are fulfilled:

- Microsoft Windows 7 (x64/x86) SP1
- Microsoft Windows Server 2008 R2 SP1/Microsoft Windows Server 2003 (x64/x86) SP2/Microsoft Windows Server 2003 R2 (x64/x86) SP2/Microsoft Windows Server 2012
- FIDO U2F authentication provider should be installed on the computer with already installed NetIQ Advanced Authentication Framework
- This authentication provider should be installed on **every** Authenticore Server.

Installing and Removing FIDO U2F Authentication Provider

NetIQ Advanced Authentication Framework™ package includes **FIDO authentication provider**, which allows you to use the FIDO U2F security key for authentication.

Installing FIDO U2F Authentication Provider

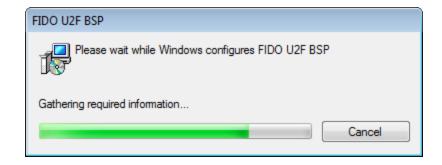
The start of installation may be frozen for a time up to 1 minute in the case of offline mode. This delay occurs due to check of digital signature of component.

To install FIDO U2F Authentication Provider:

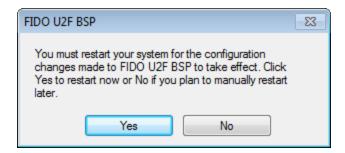
- 1. Extend schema on server with an applicable server role. If the configured server role is:
 - AD DS, schema extension should be performed on DC with Schema Admins privileges.
 - AD LDS, schema extension should be performed on the unique AD LDS with Local Admins privileges.

Follow the steps:

- a. Go to the **FidoU2FBSP** distributives folder.
- b. Open the **Schema** folder.
- c. If the configured server role is AD DS, open the **AD** folder. If the configured server role is AD LDS, open the **ADAM** folder.
- d. Run the bioU2fData.cmd file.
- e. Follow the schema extension.
- 2. Run the .msi file. **FIDO U2F Authentication Provider** will be automatically installed.



3. Restart your system for the configuration changes made to FIDO U2F authentication provider to take effect. Click **Yes** to restart the system immediately or **No** if you plan to restart it later manually.



- 4. Open the <u>following certificate</u> and copy it to the directory on Authenticore Server(s): C:\ProgramData\BSP\FIDO U2F BSP\whitelist. Save the file with the .crt extension.
- The certificate should be obligatory saved on **every** Authenticore Server.

RDS Farm Support

Before installing FIDO U2F authentication provider on the Remote Desktop Session Host (RD Session Host) server, follow the steps:

- 1. Install NetIQ Client and FIDO U2F AP on every RD Session Host server.
- 2. Install NetIQ Client and FIDO U2F AP on the thin client in the domain.

To avoid additional authentication on the thin client, check the following article.

Removing FIDO U2F Authentication Provider

In this chapter:

- Microsoft Windows 7/Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2003/2003 R2
- Microsoft Windows Server 2012

Microsoft Windows 7/Microsoft Windows Server 2008 R2

- 1. In the **Start** menu, select **Control panel** and then double-click **Programs and Features**.
- 2. Select FIDO U2F Authentication Provider and click Uninstall.
- 3. Confirm the removal.
- 4. Wait a few seconds until the removal is completed.

Microsoft Windows Server 2003/2003 R2

- 1. In the Start menu, select Settings > Control Panel > Add or Remove Programs.
- 2. Select FIDO U2F Authentication Provider and click Remove.
- 3. Confirm the removal.

Microsoft Windows 8.1/Microsoft Windows Server 2012

- 1. In the Search menu, select Apps > Control Panel > Programs > Programs and Features.
- 2. Select FIDO U2F Authentication Provider and click Uninstall.
- 3. Confirm the removal.
- 4. Wait a few seconds until the removal is completed.

Installing and Removing FIDO U2F Authentication Provider via Group Policy

It is recommended that Microsoft Windows Server 2003 users should install **Group Policy Management Console**.

To install/remove NetIQ Advanced Authentication Framework Modules, use:

- Group Policy Management Console (GPMC), which is installed by default on a Domain Controller. To open GPMC, click Start and select Administrative Tools > Group Policy Management.
- **Group Policy Management Editor (GPME)**, which can be opened from GPMC. To open GPME, under domain right-click the group policy object (GPO) you are using to install the software and select **Edit**.

It is highly recommended that you do not use Default Group Policy, because it's applicable to entire domain. It is not recommended to install/upgrade client components for all workstations at the same time.

To create new group policy and configure it:

- 1. Create new global security group and new group policy object.
- 2. Connect them:
 - a. Open created group policy object properties;
 - b. Go to the **Security** tab;
 - c. Remove Apply Group Policy option for Authenticated Users group;
 - d. Add created group and mark **Apply Group Policy** option for it.

Installing FIDO U2F Authentication Provider via Group Policy

To install FIDO U2F authentication provider using the group policy:

- 1. In GPME, in the selected GPO under Computer configuration > Policies > Software Settings, right-click Software Installation and select New > Package.
- 2. Specify the network path to the installer package.
- The directory you are willing to install should be located on network drive.
 - 3. In the **Deploy Software** dialog, select the **Assigned** option and click **OK**.
 - 4. The installer package name, version, state and path are displayed in **Group Policy Management Editor**.
 - 5. Open package properties:
 - a. On the **Deployment** tab: clear the **Uninstall this application when it falls out of the scope of management** check box. It is done to prevent undesirable uninstallation in case of problems as well as for the upgrade to go properly.
 - b. On the **Deployment** tab: click the **Advanced** button and select the **Ignore lan- guage when deploying this package** check box. If you do not select this check box, the package will be installed only on OS with package's language.
 - c. Clear the **Make this 32-bit X86 application available to Win64 machines** check box (if this option is available).
 - 6. Add appropriate 64-bit installer to this group policy object and use settings 5a-5b.

The assigned package is installed after you have updated the domain policy and restarted your computer. To update the domain policy immediately, use the gpupdate /force command.

Removing FIDO U2F Authentication Provider via Group Policy

To remove FIDO U2F authentication provider using the group policy:

- 1. In GPME, under Computer Configuration > Software Settings > Software installation, right-click the deployed package and select All tasks > Remove.
- 2. In the Remove Software dialog, click Immediately uninstall the software from users and computers and then click **OK**.

The package is removed after you have updated the domain policy and restarted your computer. To update the domain policy immediately, use the gpupdate /force command.

If you have removed option Uninstall this application when it falls out of the scope of management as it was recommended, software will not be uninstalled after selecting Immediately uninstall the software from users and computers. In this case, you will need to uninstall it via Programs and Features/Add or remove programs. Also see Removing FIDO U2F Authentication Provider chapter.

Upgrading FIDO U2F Authentication Provider Components via Group Policy

Option 1: You can add .msi package with new component version to an existing group policy object. However, this option does not prove to be good, because in case of any problems in new version of component, these problems spread on all computers in installation group.

Option 2: The more reliable upgrading procedure implies creating new group policy object for new installers:

- 1. Create new installation group and new Group Policy Object (GPO), add a new .msi package in it.
- 2. After having configured software installation, go to **Upgrades** tab of package properties.
- 3. Press **Add** button.
- 4. In Add Upgrade Package dialog please select A specific GPO option.
- 5. Select a GPO which was used for installation of previous NetIQ Advanced Authentication Framework version.
- 6. Select .msi package name.
- 7. Select option Uninstall the existing package, then install the upgrade package.

Make sure that your new GPO is above the old one in the GPO list.

Troubleshooting

This chapter provides solutions for known issues. If you encounter any problems that are not mentioned here, please contact the support service.

Cannot Install FIDO U2F Authentication Provider

Description:

Error appears when installing FIDO U2F authentication provider on your computer.

Cause:

- a. You have no space left on the disk.
- b. You are installing FIDO U2F authentication provider on the OS with the wrong bitness.
- c. You are installing card authentication provider before installing NetIQ Advanced Authentication Framework.

Solution:

- a. Free the amount of disk space needed for installation.
- b. Check your OS's bitness (x64/x86) and run the corresponding installer (x64/x86).
- c. Install NetIQ Advanced Authentication Framework first.

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