
Installation Guide

Advanced Authentication Device Service

Version 5.3

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Our Viewpoint

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About this Book

The *Advanced Authentication Device Service Guide* has been designed for all users and describes system requirements that must be fulfilled before the installation of Advanced Authentication Device Service.

Intended Audience

This book provides information for individuals responsible for understanding administration concepts and implementing a secure, distributed administration model.

About Device Service

Device Service provides you with an ability to use compliant fingerprint devices, contact and contactless cards, PKI smart cards, crypto sticks, and FIDO U2F tokens during enrollment in Advanced Authentication Self-Service Portal and for further authentication.

1 System Requirements

The following table contains information about supported platforms for Device Service:

	Microsoft Windows	Apple MacOS X	Linux
Card plugin	x	x	x
FIDO U2F plugin	x	x	x
Fingerprint plugin	x		
PKI plugin	x	x	x

NOTE: Local Admins (Windows)/ root (Mac OS X, Linux) privileges are required for installing and removing Device Service.

Ensure that the system meets the following requirements:

- ♦ Microsoft Windows 7(x64/x86) SP1/Microsoft Windows 8.1(x64/x86)/Microsoft Windows 10(x64/x86)/ Microsoft Windows Server 2008 R2/ Microsoft Windows Server 2012 R2
- ♦ Apple MacOS X 10.10(Yosemite)/ 10.11(EI Capitan)
- ♦ Linux: Debian 8, Ubuntu 15, Fedora 23, openSUSE 42
- ♦ One of the following browsers:
 - ♦ Microsoft Internet Explorer 11
 - ♦ Google Chrome 45 and newer
 - ♦ Mozilla Firefox 40 and newer
 - ♦ Apple Safari 8.0-9.0

For more information about additional system requirements, see the following sections:

- ♦ [Supported Card Readers and Cards](#)
- ♦ [Supported Devices for PKI](#)
- ♦ [Supported Fingerprint Readers](#)

1.1 Supported Card Readers and Cards

Advanced Authentication stores the serial number of a card during enrollment and validates the serial number later during the user's authentication.

Advanced Authentication supports the following cards and card readers:

Card Reader	Supported Card
Contactless card readers	<ul style="list-style-type: none"> ♦ HID OMNIKEY CardMan 5x25. ♦ HID OMNIKEY 5326. ♦ HID OMNIKEY 5x2x. ♦ Broadcom Corp Contactless SmartCard. ♦ ACS ACR122. ♦ Contactless smart cards. ♦ HID iClass serie. ♦ HID Prox serie. ♦ MIFARE Classic 1K/4K, Ultra Light, Ultra Light C, Plus. ♦ MIFARE DESFIRE 0.6, MIFARE DESFIRE EV1, MIFARE SE, DESFire. ♦ LEGIC LM3000 (supported only for Microsoft Windows and requires installation with specific parameters and disabling of other card plug-ins). ♦ LEGIC LE-762-1N (supported only for Microsoft Windows and requires installation with specific parameters and disabling of other card plug-ins). ♦ RFIDEas pcProx serie (supported only for Microsoft Windows).
Non supported readers	LEGIC AIR ID serie.

1.2 Supported Devices for PKI

Advanced Authentication supports the certificate-based PKCS#11 contact smart cards and USB tokens (crypto sticks).

Device Service supports the following devices:

- ♦ Aladdin eToken PRO 32k/72k with SafeNet Authentication Client 9
- ♦ ruToken

To use PKI, specify a PKCS#11 module for your PKI device. See [PKI Settings](#) for more information.

The following are the requirements for used certificates:

1. Certificate must contain the OCSP or CRL link to check revocation status.
2. Certificate must contain a key pair: public and private key in the x509 format. The certificates that do not comply with the requirements are ignored (hidden during enrollment).

NOTE: The cards Cosmo polIC 64K V5.2 and Cyberflex Access 64K V1 SM 2.1 support the certificate-based enrollment only (generate a key pair mode is not supported).

1.3 Supported Fingerprint Readers

Device Service supports fingerprint readers that use [Windows Biometric Framework \(WBF\)](#), Lumidigm readers, and Digital Persona readers.

Ensure that the system meets the following requirements for the WBF compliant readers:

- ♦ A reader must be available in Device Manager in the **Biometric devices** section.
- ♦ The **Windows Biometric Service** (in services.msc) must be set to `Automatic` and must be in a running state.
- ♦ The policies **Allow to use of biometrics**, **Allow users to log on using biometrics**, **Allow domain users to log on using biometrics** (Computer Configuration - Administrative Templates - Windows Components - Biometrics) must be enabled.

Device Service supports the following WBF compliant fingerprint readers:

- ♦ NEXT Biometrics NB-3010-UL ([Fingerprint Settings](#) only).
- ♦ Precise Biometrics 100 X with AuthenTec AES2501B.
- ♦ Zvetco Verifi P2500 with AuthenTec AES2550.
- ♦ Zvetco Verifi P5100.
- ♦ Zvetco Verifi P5200 with TouchChip Fingerprint Coprocessor.
- ♦ Zvetco Verifi P6000.
- ♦ Validity Sensors (HP laptops).
- ♦ SecuGen Hamster Plus (HSDU03P).

Device Service does not support the following devices:

- ♦ SecuGen Hamster IV (HF DU04).
- ♦ SecuGen Hamster (HF DU02R).

Usage of fingerprint readers requires manual configuration. For more information, see [Fingerprint Settings](#).

NOTE: Swipe readers may face issues with fingerprint matching because of low quality sensors.

2 Installing and Uninstalling Device Service

Close all web browsers before installing Device Service. The installation procedure varies for different operating systems.

Device Service on Microsoft Windows

- ♦ [Installing Device Service on Windows](#)
- ♦ [Uninstalling Device Service on Windows](#)

Device Service on Apple Mac OS X

- ♦ [Installing Device Service on Mac](#)
- ♦ [Uninstalling Device Service on Mac](#)

Device Service on Linux

- ♦ [Installing Device Service on Linux](#)
- ♦ [Upgrading Device Service on Linux](#)
- ♦ [Uninstalling Device Service on Linux](#)

WARNING: During the upgrade of Device Service on Apple Mac OS X and Linux, the configuration file is overwritten with a default one. Ensure that you have a copy of the file and put it back to the folder after the Device Service upgrade.

2.1 Installing Device Service on Windows

1. Run `NAAF-DeviceServiceSetup-Win32-Release-<version>.msi`.

IMPORTANT: For LEGIC readers, you need to install Device Service by running the command line:

```
msiexec /i NAAF-DeviceServiceSetup-Win32-Release-<version>.msi TOKEN="XXX"  
KEY="YYY"
```

XXX - Token value (HEX <= 12 byte)

YYY - 3Des Key (HEX 16 byte)

If you leave the `TOKEN/KEY` parameters blank or enter invalid commands, Device Service does not detect the LEGIC reader.

2. Click **Next**.
3. Read and accept the licence agreement.

4. Click **Next**.
 - ♦ To change the destination folder, click **Change** and select an applicable destination.
 - ♦ To continue, click **Next**.
5. Click **Install** and wait until the component is installed.
6. Click **Finish**.

2.2 Uninstalling Device Service on Windows

You can uninstall Device Service through the Setup Wizard or through Control Panel.

- ♦ [Uninstalling Device Service through Setup Wizard](#)
- ♦ [Uninstalling Device Service through Control Panel](#)

2.2.1 Uninstalling Device Service through Setup Wizard

1. Run `NAAF-DeviceServiceSetup-Win32-Release-<version>.msi`.
2. Click **Next**.
3. Select **Remove** and click **Next**.
4. Click **Remove**.

2.2.2 Uninstalling Device Service through Control Panel

To uninstall Device Service through Control Panel, select one of the following options that corresponds to your operating system:

- ♦ [Microsoft Windows 7](#)
- ♦ [Microsoft Windows 8.1](#)
- ♦ [Microsoft Windows 10](#)

Microsoft Windows 7

1. In the **Start** menu, select **Control panel** and then double-click **Programs and Features**.
2. Select **NetIQ Device Service** and click **Uninstall**.
3. Confirm the uninstallation.

Microsoft Windows 8.1

1. In the **Search** menu, select **Apps > Control Panel > Programs > Programs and Features**.
2. Select **NetIQ Device Service** and click **Uninstall**.
3. Confirm the uninstallation.

Microsoft Windows 10

1. Right-click **Start** and select **Control Panel > Programs > Programs and Features**.

2. Select **NetIQ Device Service** and click **Uninstall**.
3. Confirm the uninstallation.

2.3 Installing Device Service on Linux

IMPORTANT: To use Device Service for FIDO U2F tokens, you need to allow the FIDO U2F usage on Linux. For more information, see [yubico FAQ](#).

To install Device Service on Linux operating system, run the following commands depending on your platform.

Ubuntu, Debian (deb package)

```
sudo apt-get install libnss3-tools
sudo dpkg -i naaf-deviceservice-<version>.x86_64.deb
```

openSUSE, Fedora

openSUSE

```
sudo zypper install mozilla-nss-tools
sudo rpm -i naaf-deviceservice-<version>.x86_64.rpm
```

Fedora

```
sudo yum install nss-tools
sudo rpm -Uvh naaf-deviceservice-<version>.x86_64.rpm
```

2.4 Upgrading Device Service on Linux

To upgrade Device Service on Linux operating system, run the following commands depending on your platform.

NOTE: In Advanced Authentication 5.3 Hotfix 1 the name of the Device Service has been renamed from **deviceservice** to **naaf-deviceservice**. Hence, in Linux, to upgrade from Device Service 5.3 to 5.3 Hotfix 1 or later, you must remove the old package and install a new package.

Ubuntu, Debian (deb package)

1. Remove device service package.

```
sudo apt-get remove deviceservice-<version>.x86_64
```

2. Install new package.

```
sudo dpkg -i naaf-deviceservice-<version>.x86_64.deb
```

openSUSE, Fedora (rpm package)

openSUSE

1. Remove device service package.

```
sudo rpm -e deviceservice-<version>.x86_64
```

2. Install new package

```
sudo rpm -i naaf-deviceservice-<version>.x86_64.rpm
```

Fedora

1. Remove device service package.

```
sudo rpm -e deviceservice-<version>.x86_64
```

2. Install new package.

```
sudo rpm -Uvh naaf-deviceservice-<version>.x86_64.rpm
```

2.5 Uninstalling Device Service on Linux

Run the following commands depending on your platform:

Ubuntu, Debian (deb package)

```
rpm -e naaf-deviceservice-<version>.x86_64
```

openSUSE, Fedora

```
sudo dpkg --purge naaf-deviceservice-<version>.x86_64
```

2.6 Installing Device Service on Mac

1. Run NAAF-DeviceServiceSetup-Release-<version>.mpkg.
2. Click the Apple icon in the top-left corner and select **System Preferences**.
3. Click the **Security & Privacy** icon.
4. Click **Open Anyway** on the **General** tab.
5. Click **Continue**.
6. Read and accept the licence agreement.
7. Select the disk where you want to install Device Service and click **Continue**.
8. Click **Install**.
9. Specify the root account credentials and click **Install Software**.
10. Click **Close**.

2.7 Uninstalling Device Service on Mac

Delete the folder `DeviceService` in `/Library/LaunchDaemons/NetIQ/` to uninstall Device Service on Mac.

3 Configuring Device Service

Device Service contains the configuration file that is located in the following folder, depending on your platform:

- ♦ **Microsoft Windows:** C:\ProgramData\NetIQ\Device Service\config.properties.
- ♦ **Linux:** /opt/NetIQ/Device Service/config.properties.
- ♦ **Apple Mac OS X:** /Library/LaunchDaemons/NetIQ/Device Service/config.properties.

WARNING: During the upgrade of Device Service on Apple Mac OS X and Linux, the configuration file is overwritten with a default one. Ensure that you have a copy of the file and put it back to the folder after the Device Service upgrade.

See the following settings for the Device Service configuration.

- ♦ [Card Settings](#)
- ♦ [Fingerprint Settings](#)
- ♦ [PKI Settings](#)

To apply the changes, reboot the machine.

3.1 Card Settings

Advanced Authentication supports the Microsoft policy [Interactive logon: Smart card removal behavior](#), which allows to select an action on a card event. You can configure it to perform a force log off or lock a user session when a user presents card to the reader.

To use LEGIC readers, you must disable the other card plug-ins to avoid conflicts. To do this, perform the following steps:

1. Open the configuration file depending on the platform:
 - ♦ **Microsoft Windows:** C:\ProgramData\NetIQ\Device Service\config.properties.
 - ♦ **Linux:** LEGIC readers are not supported.
 - ♦ **Apple Mac OS X:** LEGIC readers are not supported.
2. Change the existing parameters based on the following scheme:

```
omnikeyEnabled=False
rfideasEnabled=False
smarfidEnabled=True
```
3. Save the changes.
4. Restart the workstation.

3.2 Fingerprint Settings

Device Service supports the following modes for fingerprint readers:

- ♦ **mode=1** to use the WBF API mode: In this mode, Advanced Authentication works with a processed fingerprint reader in [Windows Biometric Framework API](#).
- ♦ **mode=2** to use the WBF Direct mode: In this mode, Advanced Authentication works directly with a device driver. This is the default mode.

NOTE: Some WBF compliant readers may work only in the WBF Direct mode, for example, the [NEXT Biometrics](#) readers.

- ♦ **mode=3** to use the Lumidigm mode. You must install the Lumidigm Drivers. You can download the drivers from the [HID Global](#) website. Some devices require that the Lumidigm Device Service is installed.
- ♦ **mode=4** to use the DigitalPersona mode. You must install the DigitalPersona U.are.U RTE. You can download it from the [DigitalPersona](#) website.

To change the finger print settings, perform the following steps:

1. Open the configuration file depending on your platform:
 - ♦ **Microsoft Windows:** `C:\ProgramData\NetIQ\Device Service\config.properties`.
 - ♦ **Linux:** Fingerprint readers are not supported.
 - ♦ **Apple Mac OS X:** Fingerprint readers are not supported.
2. Add a string that specifies a mode. For example, **mode=3** to use the Lumidigm mode.
3. Add optional parameters (if required):
 - ♦ `captureTimeout=15` - timeout of capture inactivity in seconds.

NOTE: The parameters are case-sensitive.

4. Save the changes.
5. Restart your machine.

3.3 PKI Settings

To use PKI, you must specify a PKCS#11 module for your PKI device. To do this, perform the following steps:

1. Open a configuration file depending on your platform:
 - ♦ **Microsoft Windows:** `C:\ProgramData\NetIQ\Device Service\config.properties`.
 - ♦ **Linux:** `/opt/NetIQ/Device Service/config.properties`.
 - ♦ **Apple Mac OS X:** `/Library/LaunchDaemons/NetIQ/Device Service/config.properties`.
2. Remove the hash sign(#) before `vendorModule` to remove any comments from the parameter.

3. Specify a path to a PKCS#11 module.

- ♦ **Microsoft Windows:**

- ♦ **for eToken PRO:** vendorModule=eToken.dll.
- ♦ **for ruToken:** vendorModule=rtPKCS11.dll.

- ♦ **Linux:**

- ♦ **for eToken PRO:** vendorModule=/usr/lib/libeTPkcs11.so.

- ♦ **Mac OS X:**

- ♦ **for eToken PRO:** vendorModule=libeTPkcs11.dylib

You can find a list of the known PKI modules from the [link](#).

4. Specify the optional parameters (if required):

a. **Hash method**

hashMethod=SHA256

The default value is SHA256 and you can specify this value, if a parameter is not presented. The following methods are also supported: SHA224, SHA384, SHA512, RIPEMD160. To set the methods, ensure that the PKCS#11 module supports the required hash method.

b. **Padding**

padding=PKCS#1

The default value is PKCS#1 and you can specify this value, if a parameter is not presented. The following options are also supported: **PSS**, **OAEP**.

c. **Key size**

modulusBits=2048

The default value is 2048 bit. For example, eToken PRO 32k does not support it and you need to set 1024 to use it.

d. **Blocking mode**

blockingMode=True

The default value is True. OpenSC does not support the 'waiting for card' mechanism completely and it requires to change the option to False. Most of the vendors should work fine with the default mode.

5. Save the changes.

6. Restart the workstation.

4 Troubleshooting

This chapter provides information about troubleshooting Device Service.

- ♦ [Card Related Issues](#)
- ♦ [FIDO U2F Related Issues](#)
- ♦ [Fingerprint Related Issues](#)
- ♦ [PKI Related Issues](#)

To investigate the possible issues, you may be asked to provide the debug logs. The following information helps you to enable logging on different platforms.

Microsoft Windows

To enable debug logging for all Client components, follow the steps:

1. Run `DiagTool.exe` (the tool must have Microsoft .NET Framework 3.5 installed).
2. Click **Clear All** (if applicable) in the **Debug logs** tab.
3. Click **Enable**.
4. Restart the machine.
5. Reproduce your problem.
6. Run `DiagTool.exe`.
7. Click **Save** logs in the **Debug logs** tab.
8. Specify a file name and path. Click **Save** to save the logs.
9. Click **Disable** to disable the logging.
10. Click **Clear All**.

If you do not have the Diagnostic Tool, you can perform the steps manually:

1. Create a text file `C:\ProgramData\NetIQ\Logging\config.properties`.
2. Add a string to the file: `logEnabled=True` that ends by a line break.
3. Create a directory: `C:\ProgramData\NetIQ\Logging\Logs\`.
4. Restart the workstation.
5. Reproduce your problem.
6. Pack the logs located in `C:\ProgramData\NetIQ\Logging\Logs\` into a zip package.
7. Change `logEnabled=True` to `logEnabled=False` in `C:\ProgramData\NetIQ\Logging\config.properties`.

Apple Mac OS X

To enable logging for the component, perform the following steps:

- ♦ Create a text file `/Library/LaunchDaemons/NetIQ/Logging/config.properties`.
- ♦ Add a string to the file: `logEnabled=True` that ends by line break.
- ♦ Save changes.

- ♦ Create a Logs folder in `/Library/LaunchDaemons/NetIQ/Logging/`.
- ♦ Stop the service by running the command in the terminal: `sudo launchctl unload /Library/LaunchDaemons/com.netiq.deviceservice.plist`
- ♦ Start the service: `sudo launchctl load /Library/LaunchDaemons/com.netiq.deviceservice.plist`

Logs are generated in the `/Library/LaunchDaemons/NetIQ/Logging/Logs` directory.

Linux

To enable logging for the component, perform the following steps:

- ♦ Create a text file `/opt/NetIQ/Logging/config.properties`.
- ♦ Add a string to the file: `logEnabled=True` that ends by line break.
- ♦ Save changes.
- ♦ Create a Logs folder in `/opt/NetIQ/Logging/`.
- ♦ Stop the service by running the command in the terminal: `sudo service deviceservice stop`.
- ♦ Start the service: `sudo service deviceservice start`.

Logs are generated in the `/opt/NetIQ/Logging/Logs` directory.

4.1 Card Related Issues

To troubleshoot the Card related issues you can check the link: <https://127.0.0.1:8440/api/v1/card/getmessage?nowait>.

The response format is as follows:

```
{
result: [<status>],
cardid: <card id>,
readerid: <reader id>
}
```

The following status is implemented:

- ♦ `NO_READER`: Indicates that the card service did not detect a card reader connected.
- ♦ `READER_ON`: Indicates that the card service detected a card reader connected.
- ♦ `NO_CARD`: Indicates that there is no card on the reader.
- ♦ `CARD_ON`: Indicates that a card is presented to the reader.

NOTE: Card ID can be used only with `CARD_ON` and `NO_CARD` status.

4.2 FIDO U2F Related Issues

To troubleshoot the FIDO U2F related issues, see: <https://127.0.0.1:8441/api/v1/fidou2f/abort>. The service should return: `{ "result": "ok" }` when a FIDO U2F token is connected.

4.3 Fingerprint Related Issues

To troubleshoot the fingerprint related issues, see: <https://127.0.0.1:8442/api/v1/fingerprint/capture>. Open the URL while you are presenting your finger on the reader.

The following fields are included in the output:

- ♦ `captureStatus`: Can be 'Ok', 'Timeout', 'Error', 'NoReader'.
- ♦ `Width`, `Height`: Fingerprint image size (in pixels).
- ♦ `Dpi`: Dots per inch (used on matching side).
- ♦ `BitsPerPixel`: Bits per pixel (usually 8 bits).
- ♦ `BytesPerLine`: Bytes per one line in image (include align).
- ♦ `Image`: Fingerprint image encoded using base-64 in gray scale.

An example of a sample output:

```
{"BitsPerPixel":8,"BytesPerLine":256,"Dpi":508,"Height":360,"Image":"<fingerprintdata>","Width":256,"captureStatus":"Ok"}.
```

4.4 PKI Related Issues

To troubleshoot the PKI related issues you can check the URL: <https://127.0.0.1:8440/api/v1/pki/getmessage?nowait>.

The service returns:

- ♦ `NO_READER` if no reader is connected.
- ♦ `NO_CARD` if a card is not presented.
- ♦ `CARD_ON` if a card is presented.

