



NetIQ Advanced Authentication Framework - WBF Capture Service

Installation Guide

Version 5.2.0

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Introduction

About This Document

Purpose of the Document

This WBF Capture Service Installation Guide is intended for all user categories and describes system requirements that should be fulfilled before the installation of NetIQ Advanced Authentication Framework WBF Capture Service.

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.



Notes. 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.

About WBF Capture Service

WBF Capture Service provides an ability to use any fingerprint devices which use [Windows Biometric Framework](#) for enrollment in NetIQ Self Service Portal and for the further authentication.

System Requirements

 Installing and removing WBF Capture Service requires **Local Admins** privileges.

The following system requirements should be fulfilled:

- Microsoft Windows 7 (x64/x86) SP1/Microsoft Windows 8.1 (x64/x86)/Microsoft Windows 10 (x64/x86)
- One of the following browsers:
 - Microsoft Internet Explorer 10-11
 - Microsoft Edge 20
 - Google Chrome 45 and newer
 - Mozilla Firefox 40 and newer

Supported Fingerprint Readers

WBF Capture Service supports only fingerprint readers which use the [Windows Biometric Framework](#).

The following fingerprint readers are supported by WBF Capture Service:

1. NEXT Biometrics NB-3010-UL ([Direct mode](#) only).
2. Precise Biometrics 100 X with AuthenTec AES2501B.
3. Zvetco Verifi P2500 with AuthenTec AES2550.
4. Zvetco Verifi P5100.
5. Zvetco Verifi P5200 with TouchChip Fingerprint Coprocessor.
6. Zvetco Verifi P6000.
7. Validity Sensors (HP laptops).
8. SecuGen Hamster Plus (HSDU03P).

The following WBF compatible readers doesn't work with WBF Capture Service:

1. SecuGen Hamster IV (HFDU04).



Swipe readers may have issues with fingerprint matching because of low quality sensors.

Installing and Removing WBF Capture Service

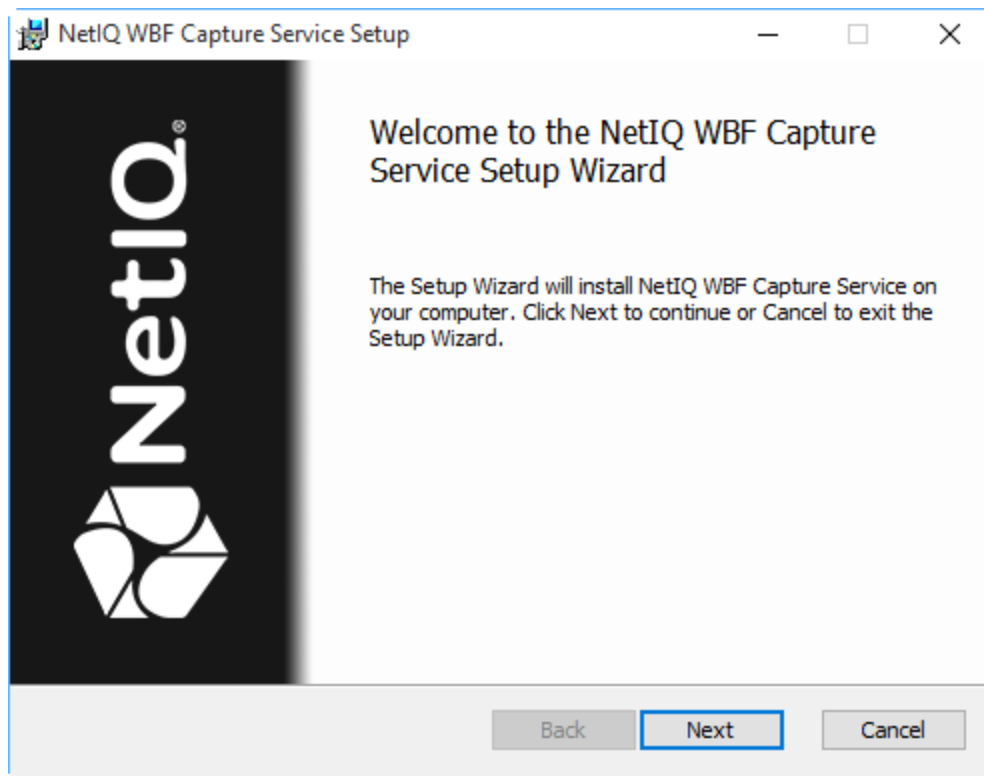
In this chapter:

- [Installing WBF Capture Service](#)
- [Removing WBF Capture Service](#)

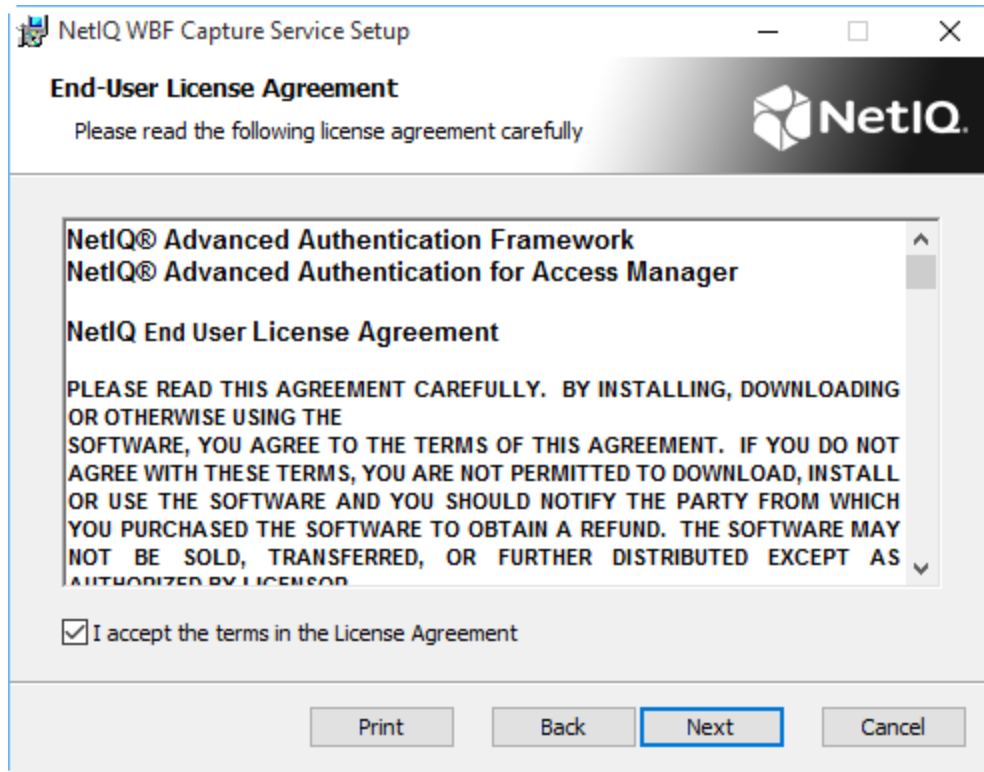
Installing WBF Capture Service

To install WBF Capture Service via Setup Wizard:

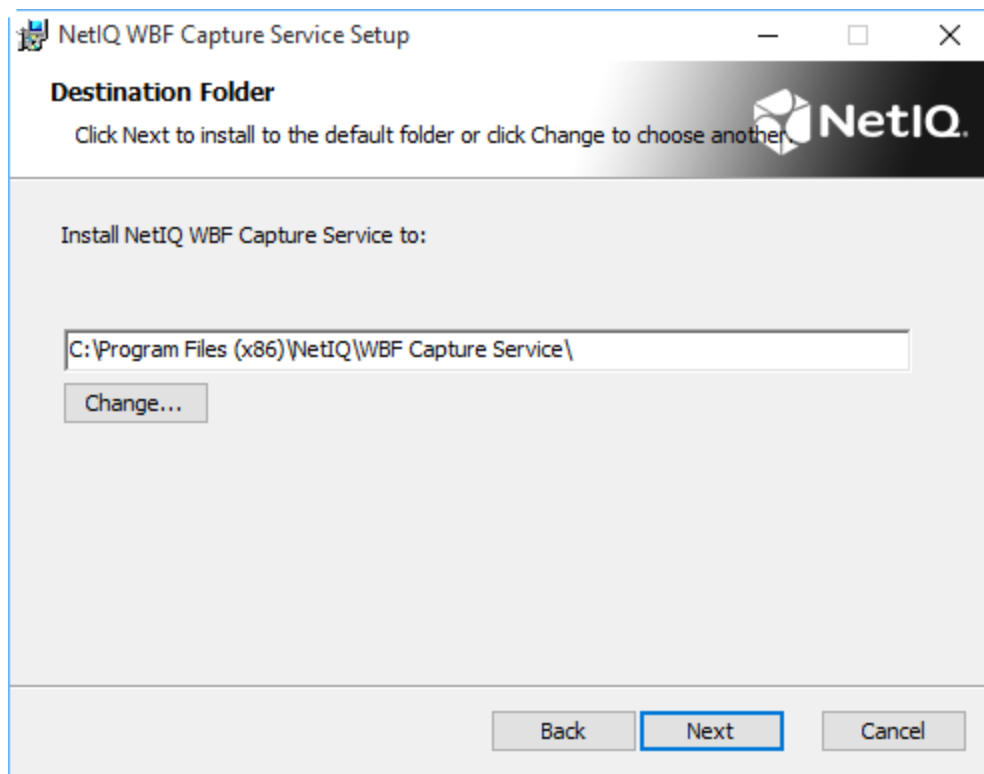
1. Run **NAAF-WbfCaptureInstaller-Win32-Release-<version>.msi**.
2. Click **Next** to continue.



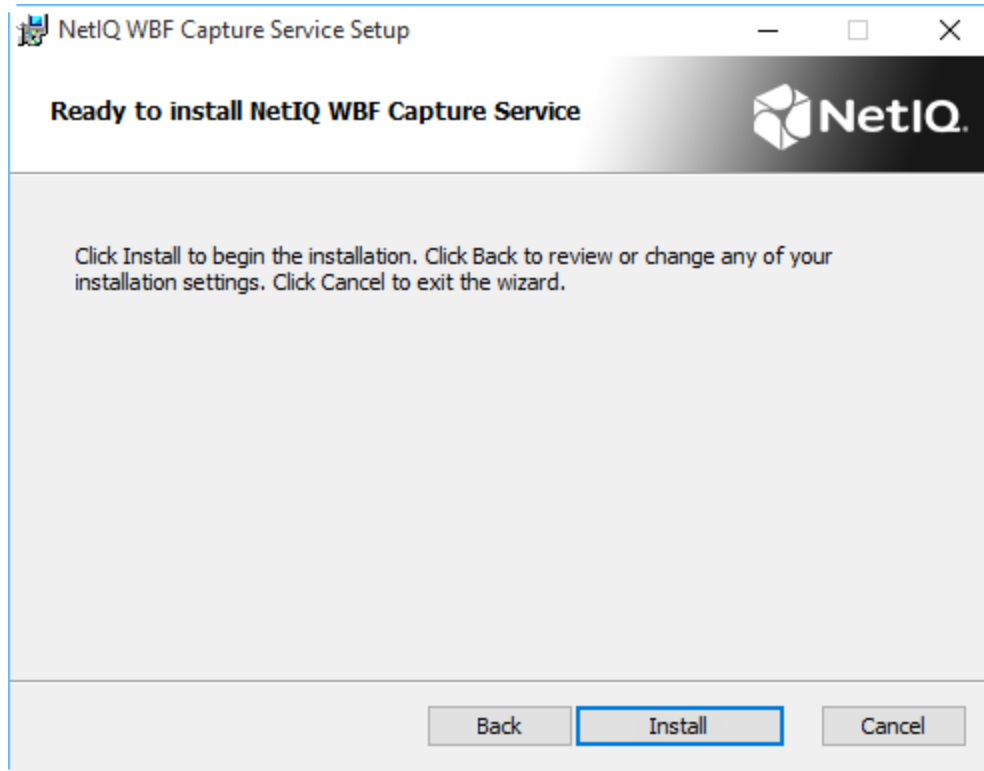
3. Read the **License Agreement**. Select the **I accept the terms in the license agreement** checkbox and click **Next**.

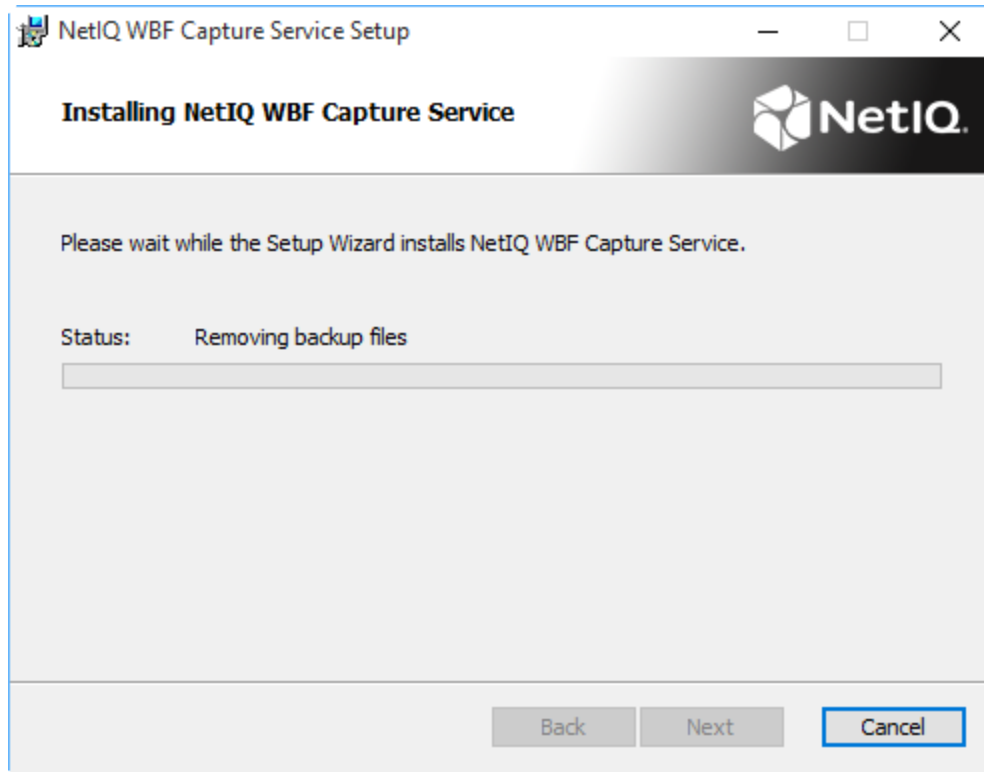


4. Click **Next** to install to the default folder or click **Browse** to choose another.

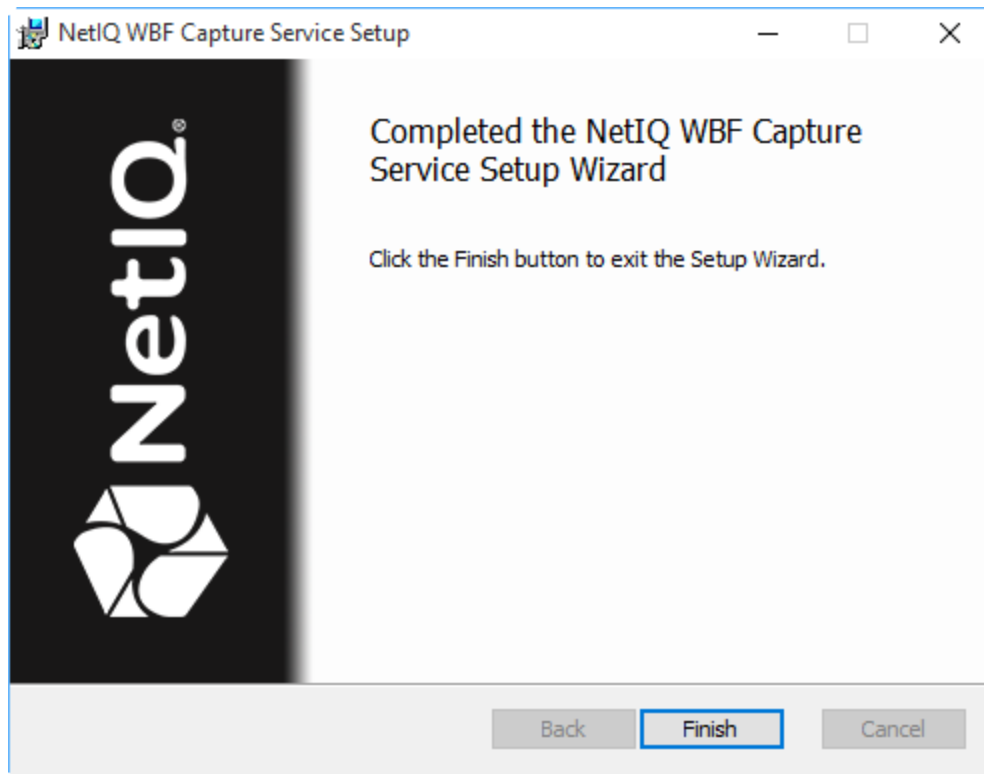


- To change the destination folder, click the **Change** button and select an applicable destination.
 - To continue, click **Next**.
5. Click **Install** and wait until the component is installed.





6. Click **Finish** to close the Wizard.



Removing WBF Capture Service

WBF Capture Service can be removed via Setup Wizard or Control Panel.

To remove WBF Capture Service via Setup Wizard, follow the steps:

1. Run **NAAF-WbfCaptureInstaller-Win32-Release-<version>.msi**.
2. Click **Next** to continue.
3. Select **Remove** as an applicable operation and click **Next** to remove WBF Capture Service from your computer.
4. Click **Remove** to confirm removal.

To remove WBF Capture Service via Control Panel, select one of the links 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 WBF Capture Service** and click **Uninstall**.
3. Confirm the removal.
4. Wait a few seconds until the removal is completed.

Microsoft Windows 8.1

1. In the **Search** menu, select **Apps > Control Panel > Programs > Programs and Features**.
2. Select **NetIQ WBF Capture Service** and click **Uninstall**.
3. Confirm the removal.
4. Wait a few seconds until the removal is completed.

Microsoft Windows 10

1. Right-click the **Start** button and select **Control Panel > Programs > Programs and Features**.
2. Select **NetIQ WBF Capture Service** and click **Uninstall**.
3. Confirm the removal.
4. Wait a few seconds until the removal is completed.

WBF Capture Service Settings

WBF Capture Service can work in two modes:

- **Direct mode**, which is used for direct work with a used device's driver. The Direct mode is used by default.
- **WBF mode**, in which NetIQ works with a used fingerprint reader in [Windows Biometric Framework API](#).

Some fingerprint readers may work only in the Direct mode (e.g. the [NEXT Biometrics](#) readers).

To setup the WBF mode, follow the next steps:

1. Browse the `%ProgramData%\NetIQ\WBF Capture Service`.
2. Open `config.properties` file in Notepad.
3. Add a string `directMode=false` to the file.
4. Save the changes.
5. Restart the *NetIQ WBF capture service*.

The following parameters are advanced and not recommended to be changed:

- `captureTimeout=15` - timeout of capture inactivity in seconds.
- `testMode=False` - if it's set to True, the fingerprint image will be written to a file.
- `testFile` - a full path to a file in which a fingerprint image will be written.

Troubleshooting

To troubleshoot the issues regarding the WBF Capture Service you can check the following URL: <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 into 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.

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

To investigate the possible issues you may be asked to collect the debug logs.

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

- Create a text file `C:\ProgramData\NetIQ\Logging\config.properties`
- Add a string to the file: `logEnabled=True` which ends by line break
- Create directory: `C:\ProgramData\NetIQ\Logging\Logs\`
- Restart the workstation

Reproduce the problem. Logs will be located in `C:\ProgramData\NetIQ\Logging\Logs\`.

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