

Generic USB Flash Memory Device Plug-in for TruGate

User's Guide

Rev. 1.0.5



D.O.I-Net Co., Ltd.

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Revision History

Rev.	Date	Details
1.0.0	2010/11/11	Issued.
1.0.1	2012/04/17	Added Do not use PIN authentication to device configuration. Removed Windows 2000 from Supported OSs due to version up.
1.0.2	2013/05/01	Added Windows 8, Windows Server 2012 to Supported OSs.
1.0.3	2014/12/04	Modified descriptions of Supported OSs.
1.0.4	2015/07/21	Added Windows 10 to Supported OSs.
1.0.5	2023/11/06	Changed Supported OSs.

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1. Introduction

This User's Guide explains the operation of TruGate Plug-in for Flash (Flash Memory Device Plug-in) produced by D.O.I-Net Co., Ltd. (D.O.I-Net).

2. Operating Conditions

a. Supported OSs

Windows 10 32bit/64bit

Windows 11

Windows Server 2016

Windows Server 2019

b. Applicable Authentication Framework

TruGate ver.5.0.10 or above

c. Supported Flash Memory

Generic USB Flash Memories (device must have a serial number)

d. Template Storage

Database

e. Device Drivers

Use OS standard driver

3. Product Summary

a. Functions

Device plug-in is the program module that will be added to TruGate produced by D.O.I-Net for using various authentication devices. Flash Memory Device Plug-in is simplified device plug-in to make a generic USB flash memory into an authentication device.

b. Package

2 types of installer packages are prepared; one for PCs with a single license edition, and another for PCs with a volume license edition.

i. Single License Edition

This is a package mainly for personal users. It comes with the exe installer package.

ii. Volume License Edition

This is a package mainly for corporate users. It comes with the msi installer package. You cannot uninstall it from "Apps and a Features" of the OS installed on the PC. Uninstall it from "Active Directory server" or "re-launched msi installer". Either 32bit version or 64bit version is available.

4. Warnings

1. Never install a single license edition and a volume license edition together on the same PC.

5. Installation and Uninstallation Procedure

Note: Please install the generic USB flash memory device driver as needed before installing the device plug-in (usually it is not necessary). In installing and uninstalling, please log on with the administrator privilege of the local computer.

a. Generic USB Flash Memory Device Driver

Follow the instructions of your USB flash memory that you want to use it as certification device (Usually it is not necessary to install the driver due to using OS standard driver).

b. Flash Memory Device Plug-in

i. Installation

A dialog box shown below appears when you execute TruGate Plugin for Flash.exe. Click the "Next" button.

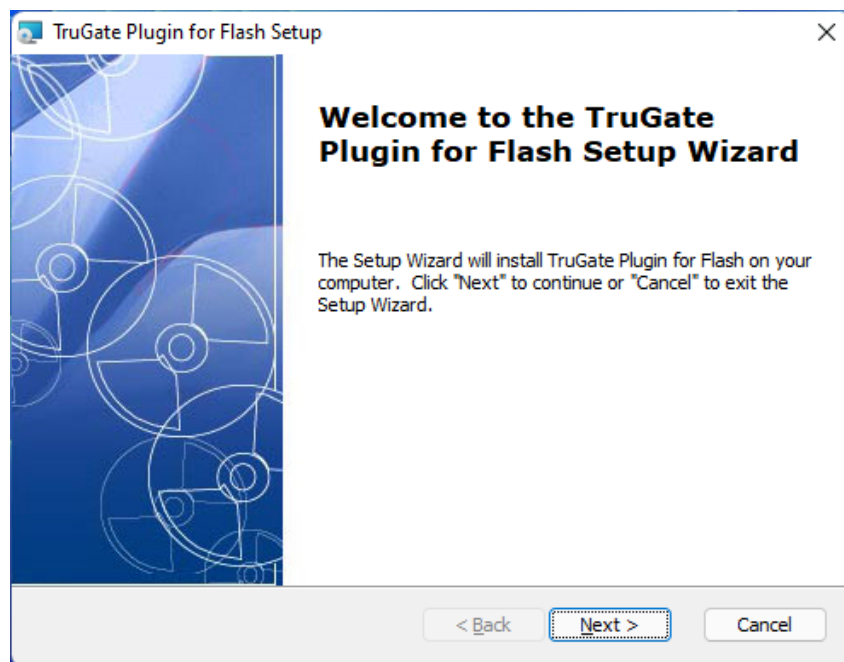


Figure 1 Setup Wizard Welcome Dialog Box

Read "SOFTWARE LICENSE AGREEMENT" shown in the dialog box carefully, and click the "I accept the terms in the license agreement" radio button if you agree, then click the "Next" button.

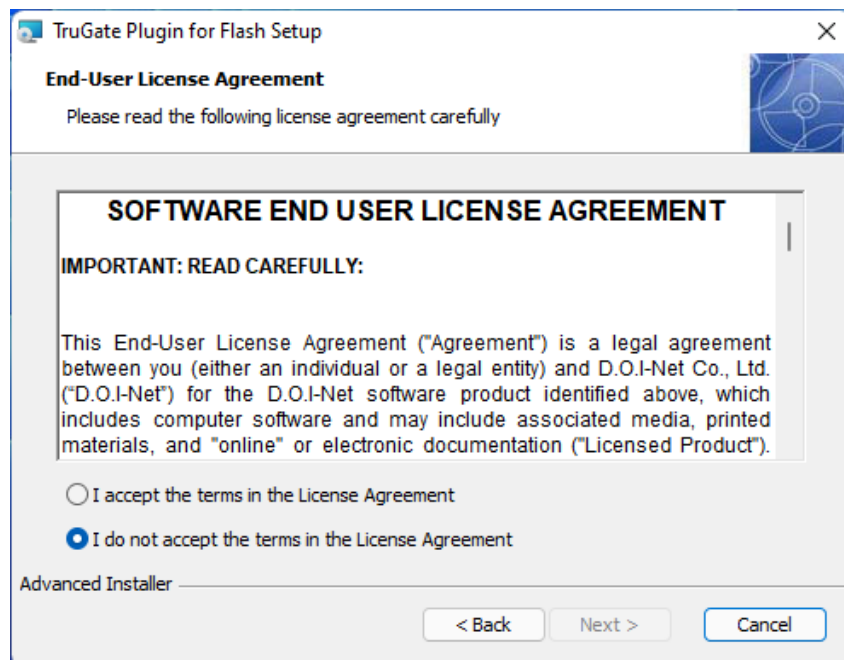


Figure 2 SOFTWARE LICENSE AGREEMENT

When Select Installation Folder dialog box is displayed, modify the destination if you need. Generally, however, this product should be used without modification, then

click the "Next" button.

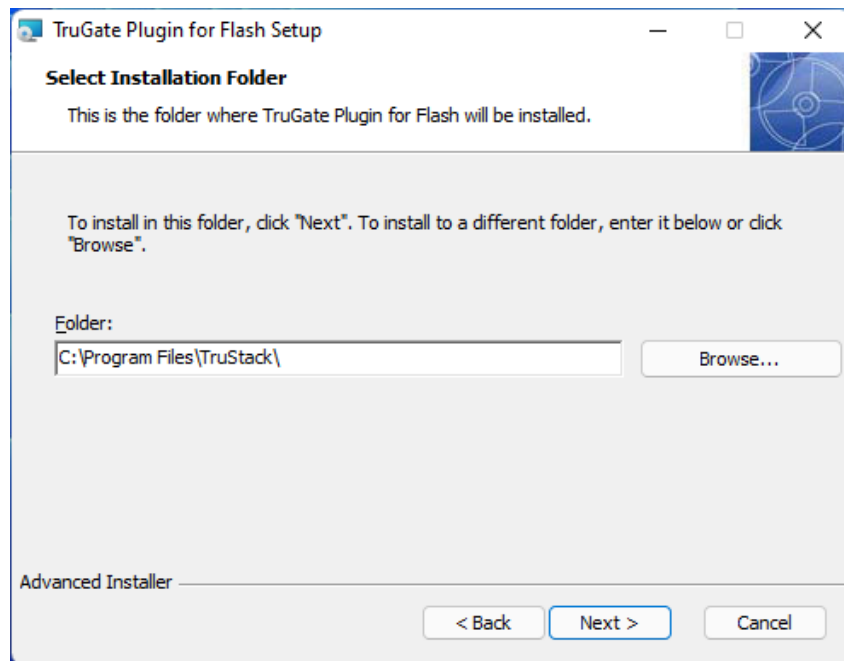


Figure 3 Select Installation Folder Dialog Box

Click the "Install" button unless you need to change. If you need to make some changes, click the "Back" button and return to the dialog box where you want to make changes.

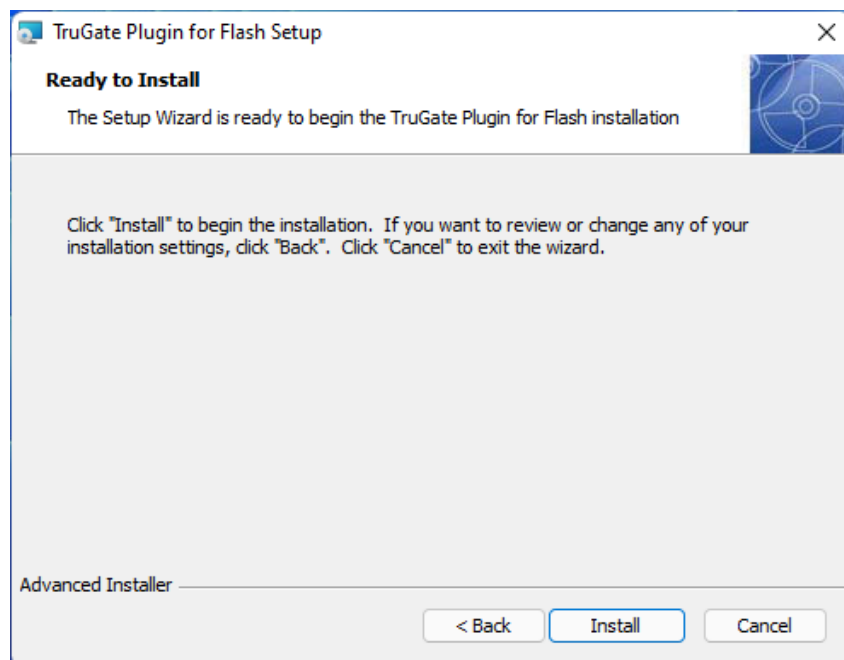


Figure 4 Ready to Install Dialog Box

During installation, the following indicator dialog box will be displayed.

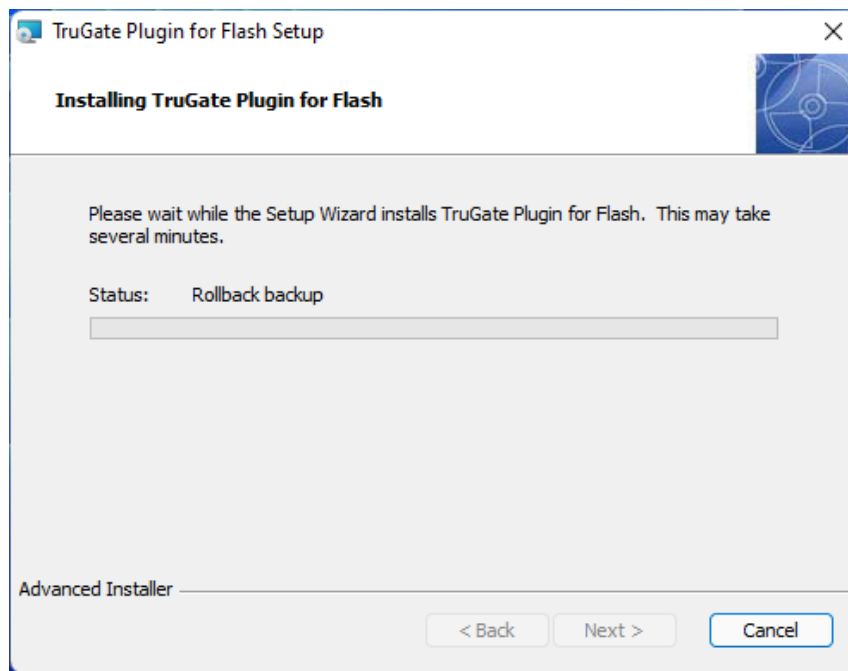


Figure 5 Installation Indicator Dialog Box

When installation is finished, the following installation completion dialog will be displayed. Click the "Finish" button.



Figure 6 Installation Complete Dialog Box

ii. Uninstallation

Select "TruGate Plugin for Flash" from "Apps and Features" of the OS.
The following is an operation example with Windows 11.

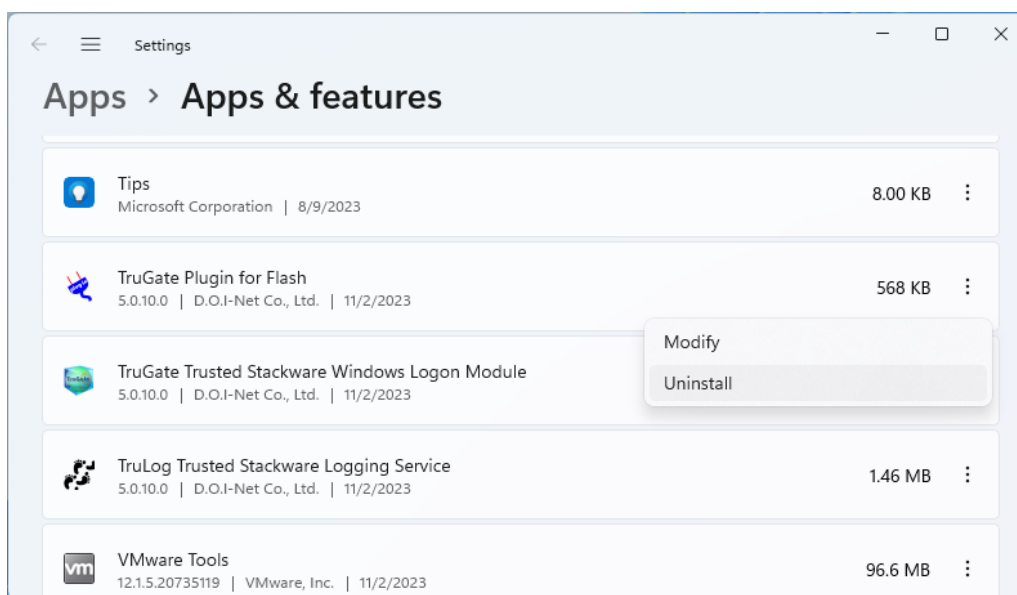


Figure 7 Apps and Features Dialog Box

Then click “Uninstall”, and uninstall the Flash Memory Device Plug-in following the message.

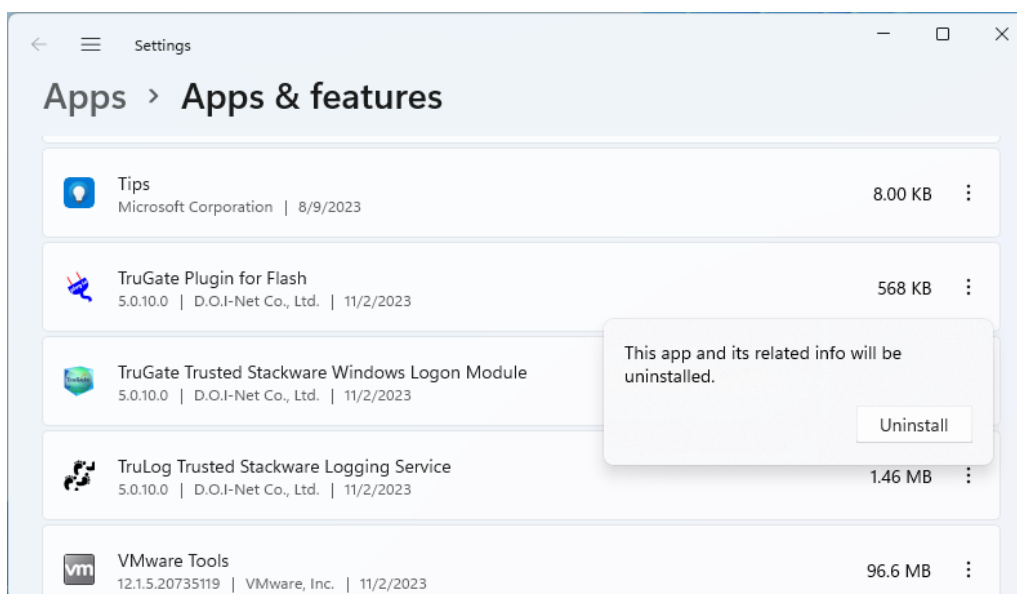


Figure 8 Confirmation of Program Uninstallation Dialog Box

During uninstallation, the following indicator dialog box will be displayed.

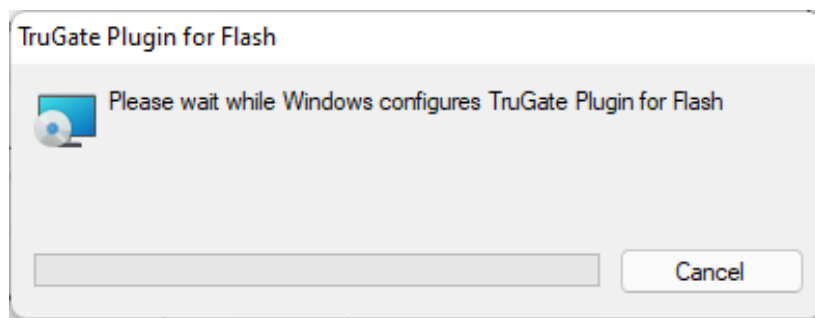


Figure 9 Uninstall Indicator Dialog Box

When uninstallation is completed, the indicator dialog box will disappear.

6. Operation Method

a. Device Configuration

To configure Flash Memory Device Plug-in, attach an USB flash memory to the PC that you want to use as certification device, then, perform the device configuration after launching any of TruGate applications.

The figure below shows the launched dialog box of TruGate Configuration utility as an example.

Click the "Device Detect Config..." button in the TruGate Configuration utility dialog box, and configure the device.

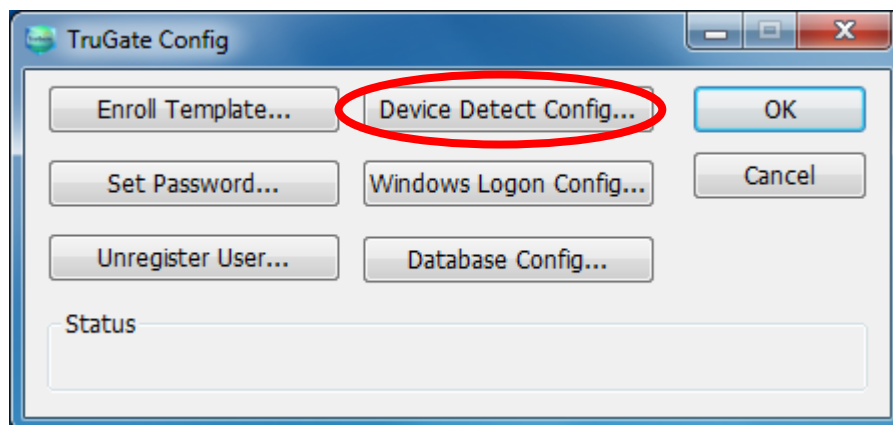


Figure 10 TruGate Configuration Utility Dialog Box - Device Detect Config.

By clicking the "Device Detect Config..." button, Device Detect Configuration dialog box as follows will be displayed, then, select "Flash" from the "Select Device" list view, and click the "Select Device Config..." button.

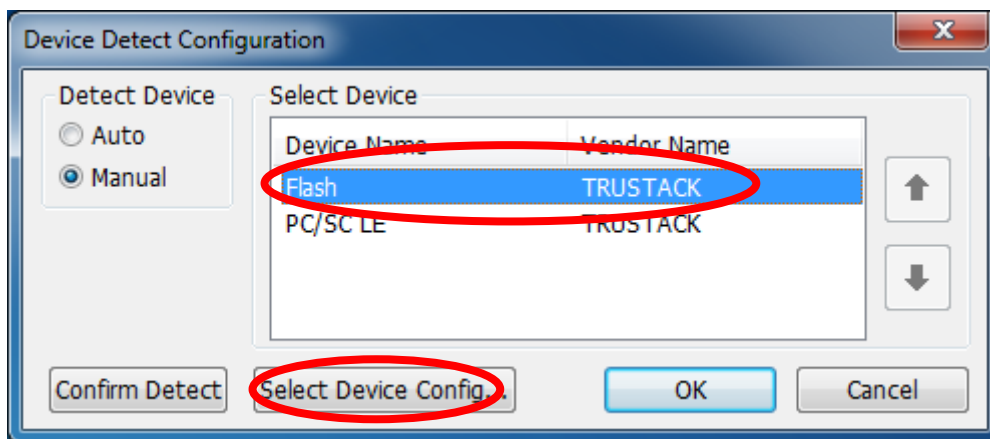


Figure 11 Device Detect Configuration Dialog Box

When the “Select Device Config...” button is clicked, Device Configuration dialog box shown below will be displayed.

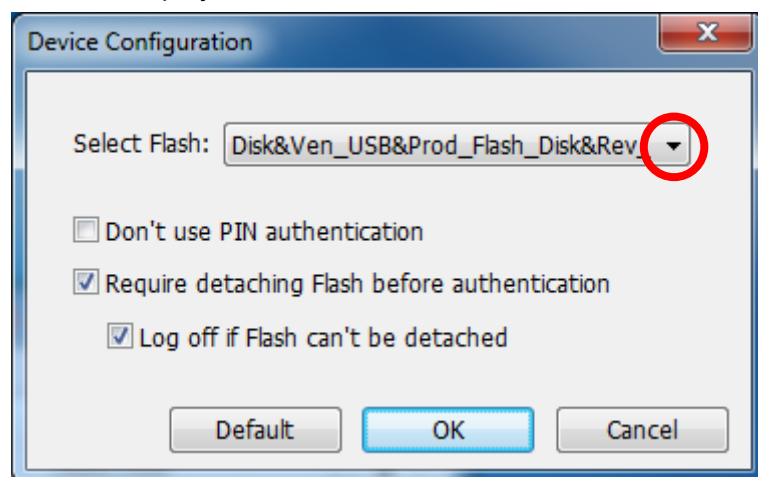


Figure 12 Device Configuration Dialog Box

When Device Configuration dialog box appears, select the USB flash memory from the "Select Flash" drop-down list that you want to use as a certification device.

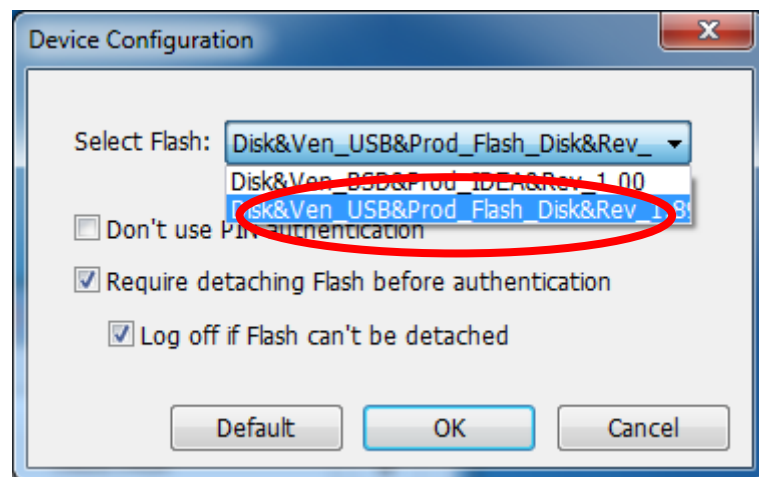


Figure 13 Select Flash Memory

Usually leave the "Do not use PIN authentication" check box as unchecked. It is recommended that you check the check box only if you use the special USB flash memory that has the function such as password protection or fingerprint protection.

If the "Require detaching Flash before authentication" check box is checked, Flash Memory Device Plug-in tries to detach the USB flash memory before the authentication at Windows Logon or Unlock Workstation. Due to detaching the USB flash memory, it is requested to re-attach the USB flash memory and re-authenticate the user.

Note: Feature of "Require detaching Flash before authentication" on Windows Vista and above, it is necessary that TruLog Service Ver.5.0.0 or later should be installed and running to achieve its functionality.

The "Log off if Flash can't be detached" check box will be available when the "Require detaching Flash before authentication" check box is checked. If this check box is checked, when Flash Memory Device Plug-in tries to detach the USB flash memory according to "Require detaching Flash before authentication", and the USB flash memory can't be detached, it will execute Log off instead.

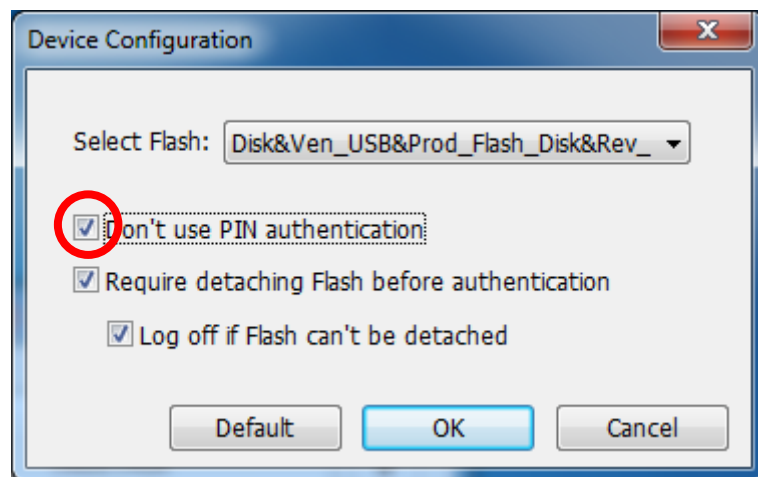


Figure 14 Without PIN Authentication

Click the "OK" button to finish. The configuration data will be kept in Windows registry. Once after the configuration data is kept in Windows registry, when the device plug-in is started afterward, the configuration data in Windows registry will be applied.

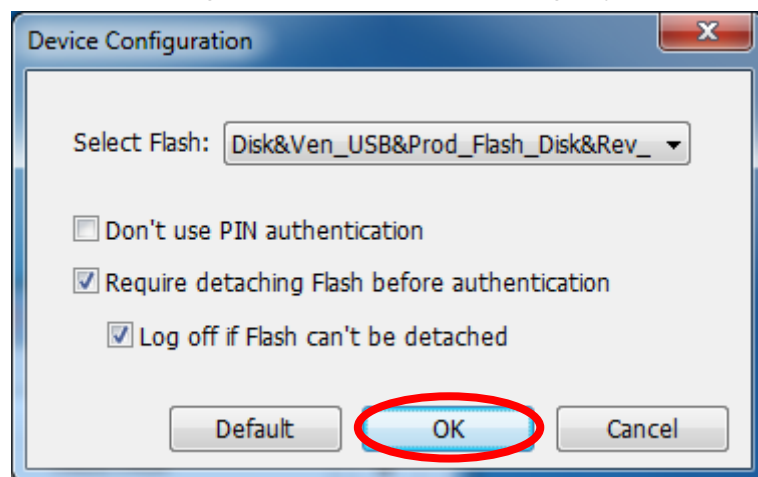


Figure 15 Complete Device Configuration

After the device configuration is completed, click the "Confirm Detect" button on a Device Detect Configuration dialog box.

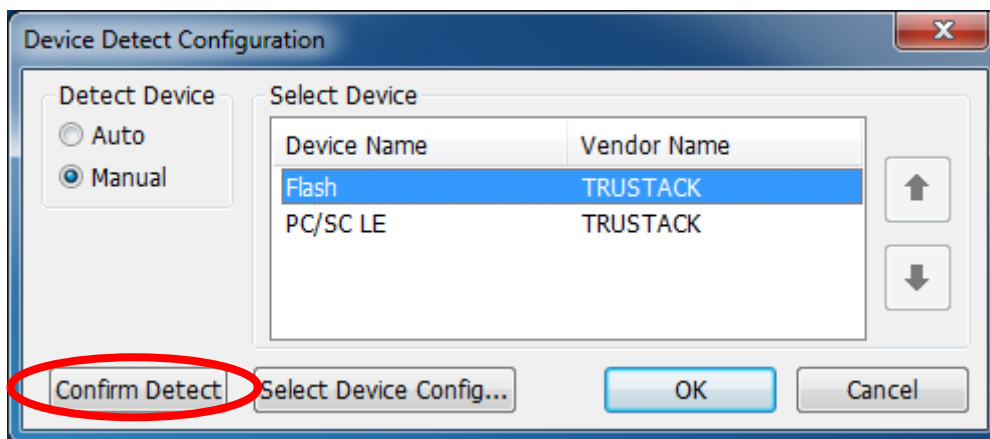


Figure 16 Device Detect Confirmation

If the device configuration is accomplished normally, the detect confirmation message as follows will be displayed.

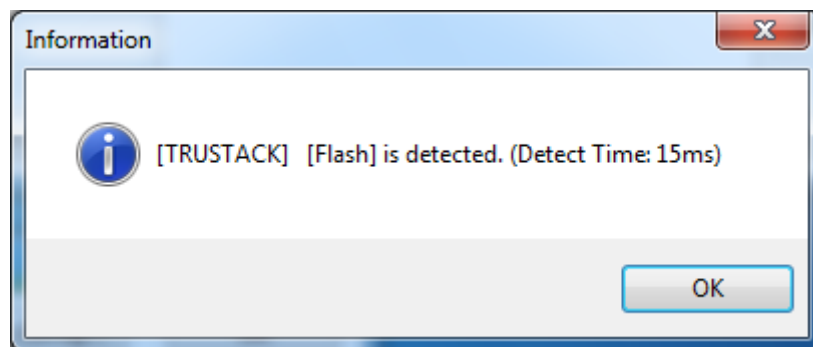


Figure 17 Device Detect Confirmation Message

If the device detection is carried out normally, click the "OK" button to finish the device configuration.

b. Template Enrollment

To enroll the template of Flash Memory Device Plug-in, launch the "TruGate Configuration" utility.

After "TruGate Configuration" utility launch dialog box is displayed, click the "Enroll Template" button.

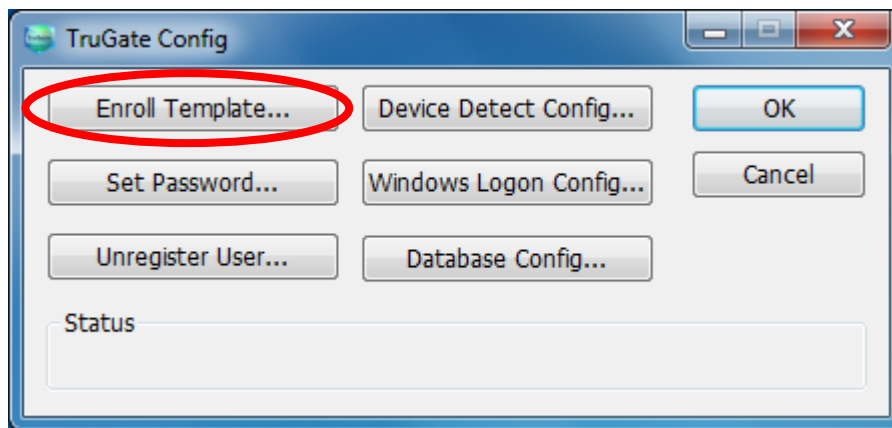


Figure 18 TruGate Configuration Utility Dialog Box - Enroll Template

When the Template Enrollment Utility dialog box as follows appears, attach the USB flash memory which you want to relate to the user, then click the "Select Device ..." button at first.

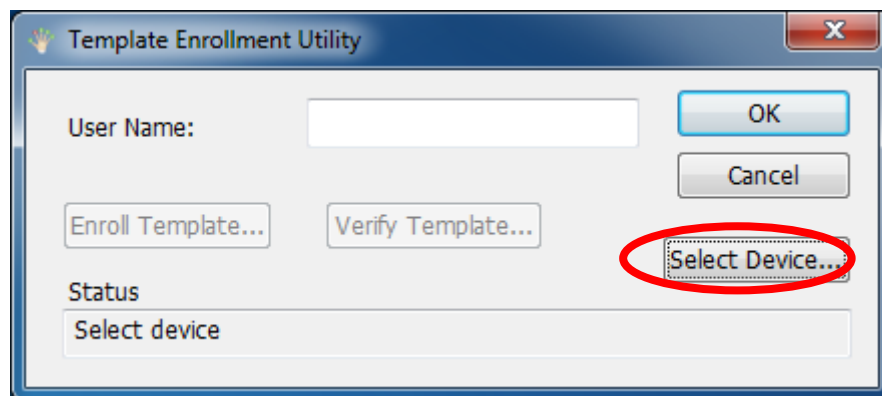


Figure 19 Template Enrollment Utility Dialog Box

After the Select Authentication Device dialog box is shown subsequently, select "Flash" from the "Device Name" drop-down list, and then click the "OK" button.

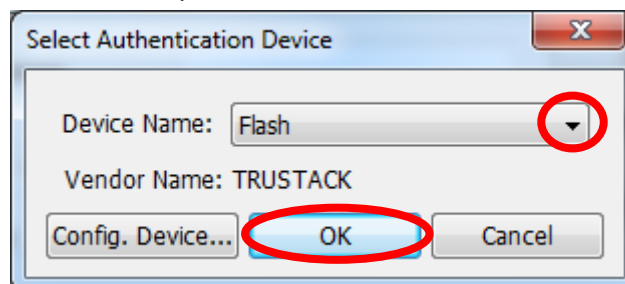


Figure 20 Select Authentication Device Dialog Box

If the Select Device is finished, according to the displayed message, enter the user name in the "User Name" edit box who you want to register a template.

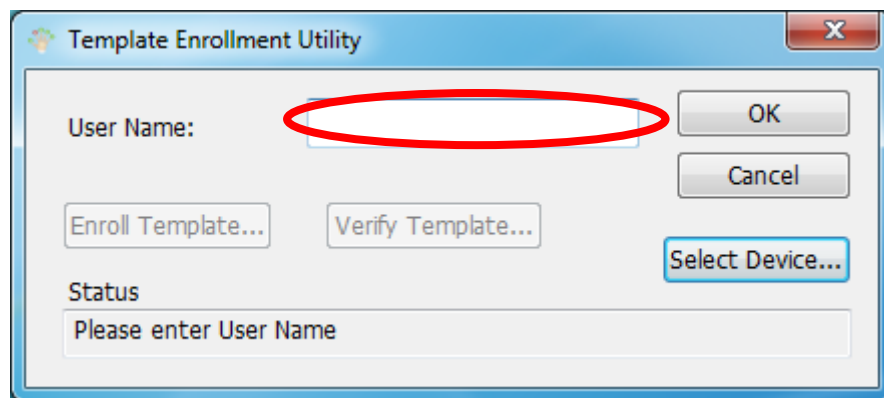


Figure 21 Template Enrollment Utility - type User Name

Then, click the "Enroll Template..." button.

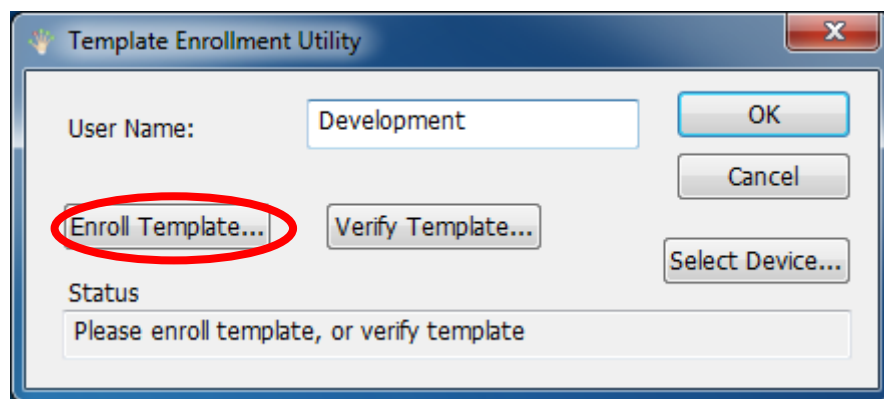


Figure 22 Template Enrollment Utility - enroll template

When the Registration dialog box appears, click the "Register" button.

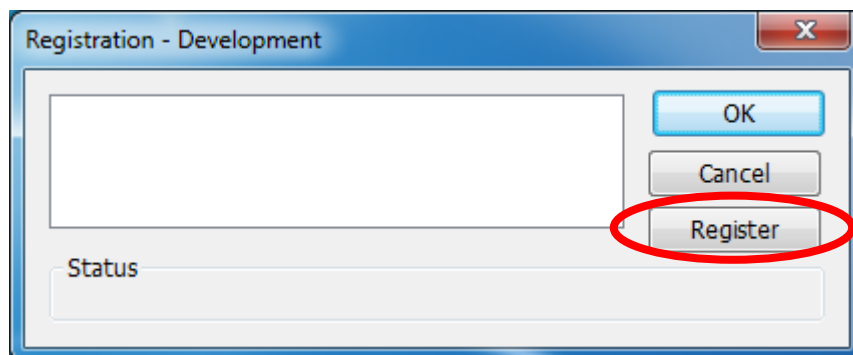


Figure 23 Registration Dialog Box - Registration

If "PIN Registration" dialog box is displayed, enter any code character string in the "PIN" edit box. The maximum length of the character string is eight characters. After entering of the code character string is completed, click the "OK" button.

If "Do not use PIN authentication" check box in Device Configuration was checked, the following "PIN Registration" and "PIN Confirmation" dialog boxes will not appear.

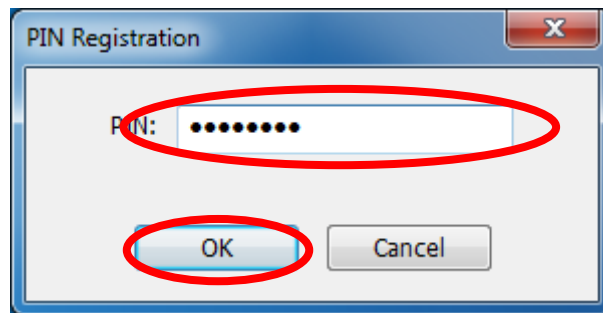


Figure 24 PIN Registration

If "PIN Confirmation" dialog box is displayed sequentially, enter the same code character string in the "PIN" edit box, then click the "OK" button.

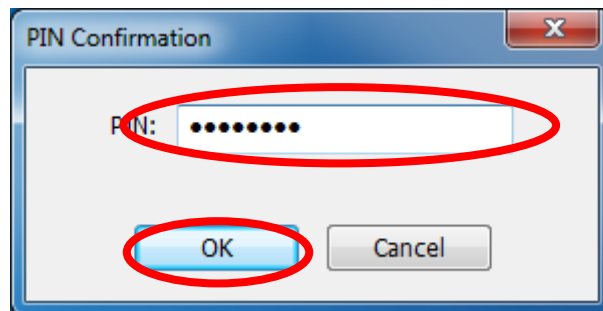


Figure 25 PIN Confirmation

When a template is registered normally, "ID" will be added to the Registration dialog box shown below, and a message "New registration data" will be displayed.

If you have any other USB flash memories you want to additionally register, replace the USB flash memory here, and click the "Register" button again.

Click the "OK" button if it's registered normally.

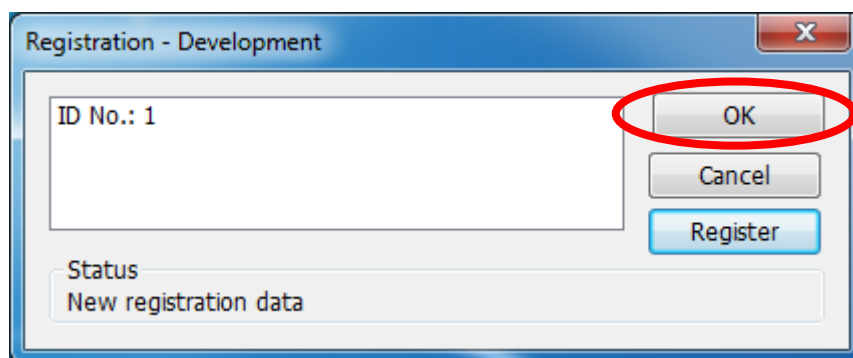


Figure 26 Registration Dialog Box - registration succeeded

In the case of failed at the registration of the template, e.g., when double registration was carried out, a message like "Data is already registered" shown below will be displayed on Registration dialog box.

If you want to delete the registered template, you can delete it by double-clicking on an "ID" number.

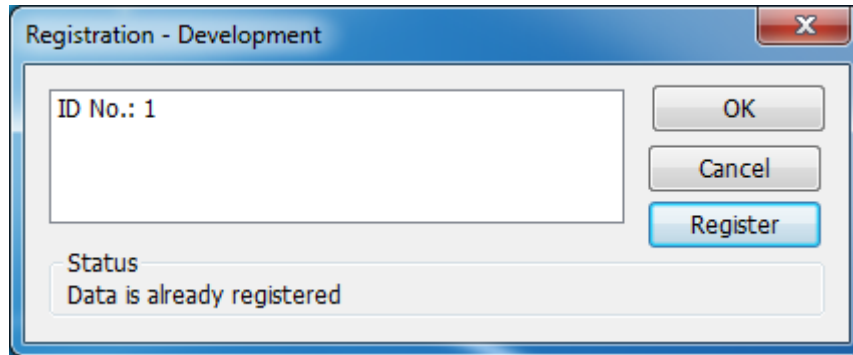


Figure 27 Registration Dialog Box - registration failed

Like the figure below, the message "Succeeded to enroll template" will be displayed in the status information column when you succeed in template registration.

If you want to register the template of the different user sequentially, replace the USB flash memory and go from above-mentioned procedure of entering the user name repeatedly.

If registration is completed successfully, click the "OK" button to finish, or click the "Verify Template" button to confirm a template.

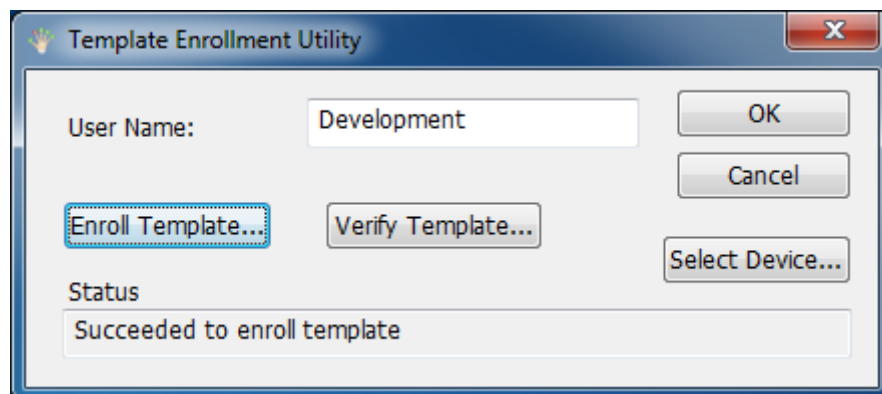


Figure 28 Template Enrollment Utility - registration normal

c. Template Verification

To verify the template of Flash Memory Device Plug-in, launch "TruGate Config" utility.

After "TruGate Config" utility launch dialog box is displayed, click the "Enroll Template"

button.

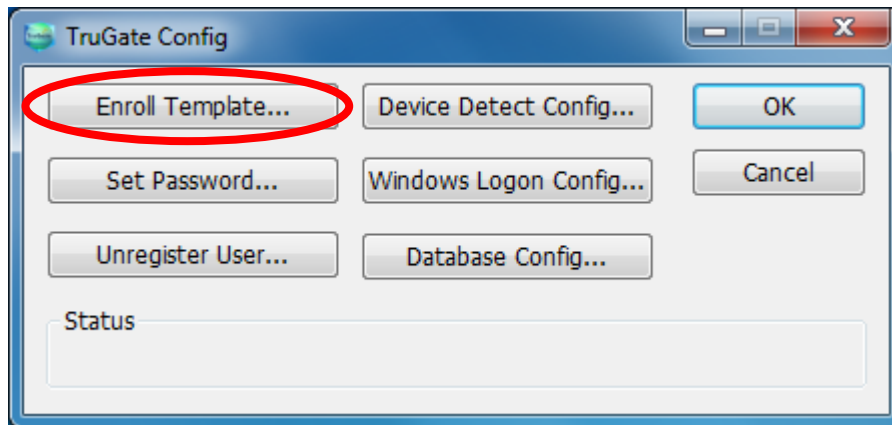


Figure 29 TruGate Configuration Utility Dialog Box - Verify Template

When the Template Enrollment Utility dialog box as follows appears, attach the USB flash memory to the PC which was related to the user by "Enroll Template" described before, and then click the "Select Device..." button at first.

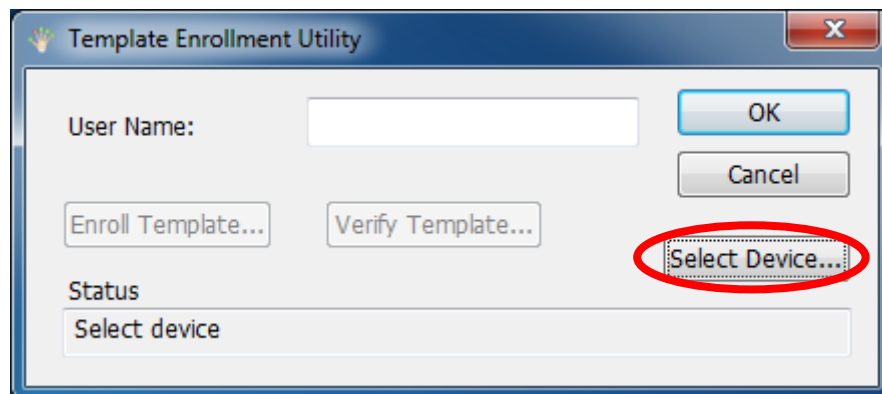


Figure 30 Template Enrollment Utility Dialog Box

After the Select Authentication Device dialog box is displayed sequentially, select "Flash" from the "Device Name" drop-down list, and then click the "OK" button.

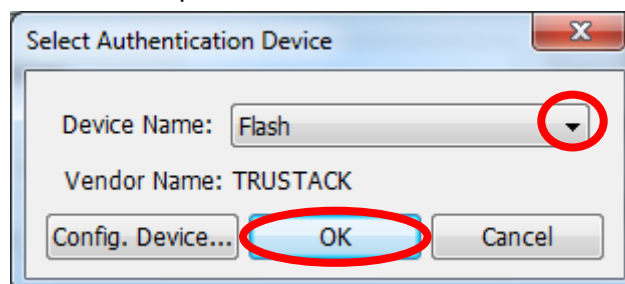


Figure 31 Select Authentication Device - device selected

After the Select Device is completed, according to the displayed message, enter the user

name in the "User Name" edit box who you want to verify the template.

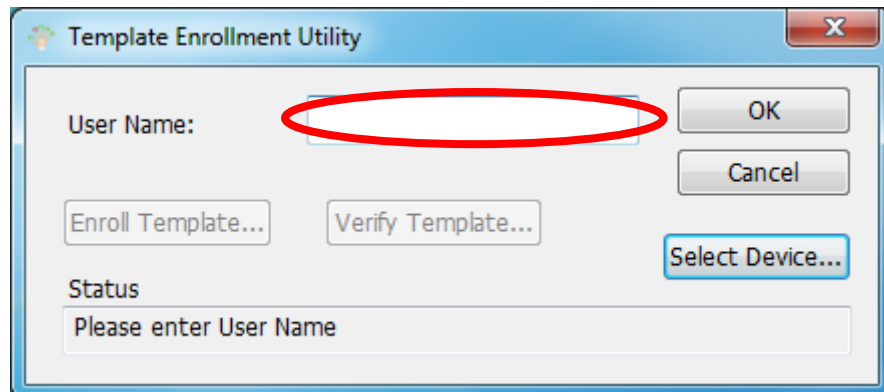


Figure 32 Template Enrollment Utility - input user name

Then click the "Verify Template..." button.

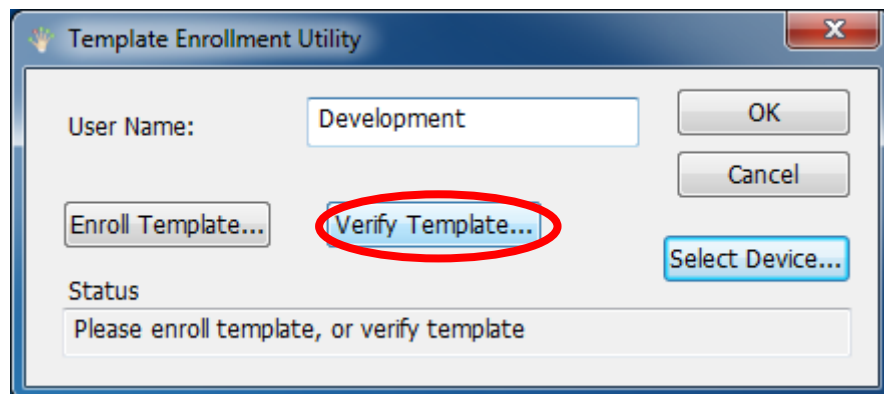


Figure 33 Template Enrollment Utility - verify template

If "PIN Authentication" dialog box is displayed, enter the code character string in the "PIN" edit box that has been set, then click the "OK" button. If "Do not use PIN authentication" check box in Device Configuration was checked, the following "PIN Authentication" dialog box will not appear.

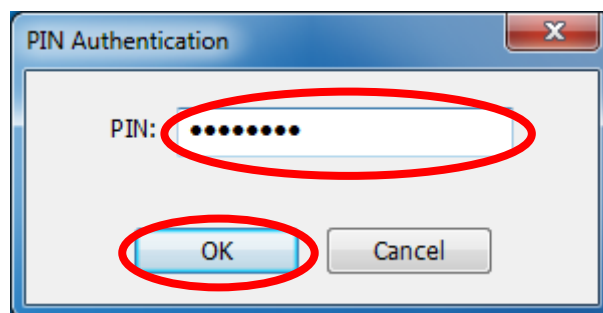


Figure 34 PIN Authentication

Like the figure below, the message "Succeeded to verify template" will be displayed in the status information column when you succeed in template verification.

If you want to verify the template of the different user sequentially, replace the USB flash memory, and go from above-mentioned procedure of entering the user name repeatedly. Click the "OK" button to complete if you can verify it normally.

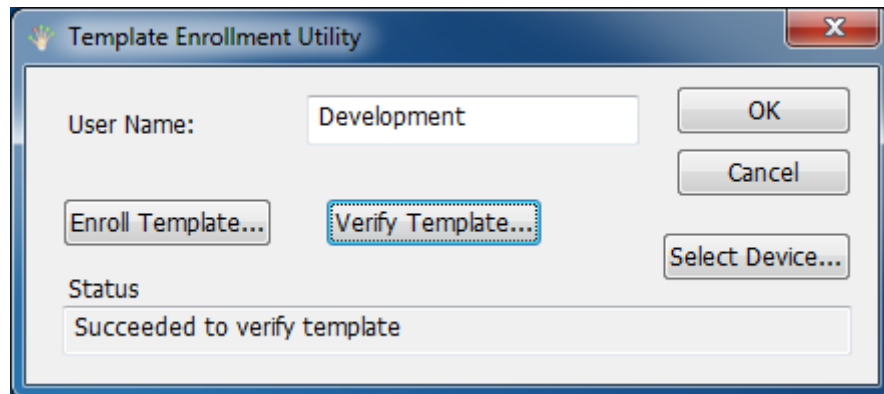


Figure 35 Template Enrollment Utility - succeeded verify

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Questions to Trusted Stackware series product

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