



PROXKey Tool User Manual

Higher level of security for strong authentication,
digital security and file encryption

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1. Introduction

With the development of Internet and fast development of network technology a clear majority of people communicate with each other online, instead of traditional methods of face to face meeting. Due to this security authentication becomes vital for the network security, also the bank transactions and fund transfer becoming online it is very important to protect data. The USB tokens provide a secure way to store the Digital Signature Certificate.

The PROXKey USB Token is a hardware cryptographic module with a USB form factor for twofactor authentication which has been validated against the FIPS 140-2 at security level 3. The public and private user's key is generated and is stored on the chip embedded inside the token; the key pairs are stored in EEPROM. Private Key is secured and cannot be exported.

2. PROXKey Product

In internet applications such as e - business, e-government, bulk signing, banking applications, accounts - related software, network communication, and e - transactions, it is crucial to ensure information security. The PROXKey product is developed as a solution to this security problem. It provides a convenient and reliable secure environment for customers.

2.1 PROXKey Tool

High in security

- 1.Supports password and hardware authentication.
- 2.The hardware device provides secure memory space for storing passwords, private keys, and other secret data. The secret data is non-exportable, and the hardware device is no-replicable.
- 3.Secure and reliable : All encryption and decryption operations are performed inside the PROXKey device.

Uniformity specification

- 1.Follows worldwide universal standards : PKCS#11 v2.1 specification and Microsoft CSP 3.0 specification.
- 2.Fully implements security communication functions supported by SSL and S/ MIME. The specification covers the application and storage of digital certificates, digital signatures and verification, and encryption/decryption.
- 3.Uses a standard interface to connect with browsers, ensuring communications strictly adhere to the browser's secure communication operating regulations.
- 4.Supports certificate interoperability between CSP and PKCS#11.
- 5.Supports certificate application and secure email exchange in environments such as Edge / Outlook, Foxmail, Webmail, Office 365, Netscape, Mozilla, and Firefox / Thunderbird.
- 6.Supports X.509 v3 certificate storage.

Excellent compatibility

1. There is no need to install a special PROXKey driver; the driver integrated into the Windows Operating System is used, thereby eliminating the need for driver installation.
2. The hardware is a USB device that follows USB 3.0 specifications. It can be used conveniently with any USB-supported facilities.
3. Uniform interfaces are used for UDK devices. One suite supports both HID and UDK devices.
4. The UI is supported on Windows 7/8/10/11, Boss, Linux, Ubuntu, and Mac operating systems.

Flexible design

1. Using modularized design to meet customer's dedicated requirements.
2. A convenient platform for user's certificates management is provided.
3. UI (User Interface) is designed up to customer's requirements.
4. Secondary development interface is provided.

2.2 PROXKey function modules

PROXKey network security suite includes the following 5 modules:

CSP module:

1. It is a basic interface module based on Microsoft CSP3.0 specification.
2. It is configured at registry.
3. It can be used in Edge browser, Outlook and Foxmail for certificate application, security website visitation and security email service, etc.

PKCS#11 Module:

1. Supporting PKCS#11 v2.1 interface.
2. It is applicable in Netscape/Mozilla browser and Thunderbird email server.

Administrator's tool:

After pressing "Ctrl + Alt + W", one admin option will be activated on WD PROXKey tool. It provides functions of key initialization.

User's tool:

It provides not only PIN operations of verification and modification, but also certificate operations of checking and installation/uninstall.

Background:

At the time of PROXKey plug in and out, certificate registration/revocation will be automatically done, and application programs will automatically start and end.

2.3 PROXKey using environment

The supporting operating systems are shown as below:

Windows Sever 2008/2012/2016 and 2022

Windows 7, 8, 10 and 11

Mac , Linux , Boss and Ubuntu

The supporting software includes:

Edge / Mozilla / Netscape / Safari and Opera browsers.

Outlook / office365 / Webmail / Foxmail / Thunderbird email clients.

3. PROXKey Tool Installation

The PROXKey comes with an Auto run-supported ND (No Driver) feature. Users can install the PROXKey tool simply by plugging the token into the USB slot. The installation process and details of the PROXKey tool are explained in detail below.

3.1 PROXKey Tool Installation

To begin the installation, simply plug the token into the USB slot of your laptop or PC. The Autorun-supported product will automatically install the PROXKey tool on the system.

1. Once the token is plugged into the USB slot, the Autorun feature will prompt you to install the token management tool, as shown in Figure 1. Click the "Install" button to proceed with the installation of the software.

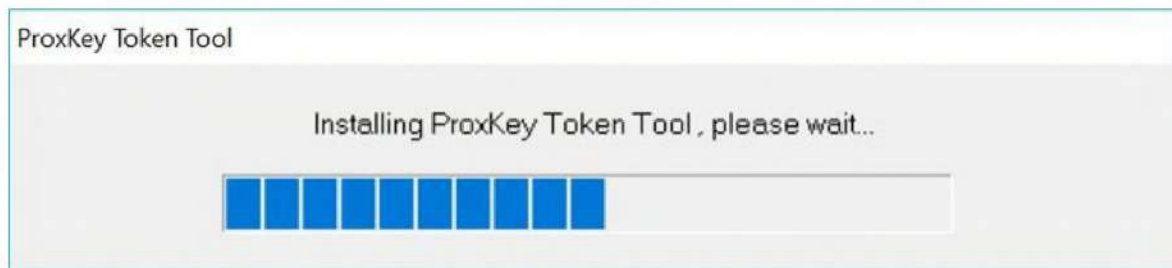


Figure 1 Installation

2. The token management software installs as shown in the Figure 2, click finish button to complete the installation.

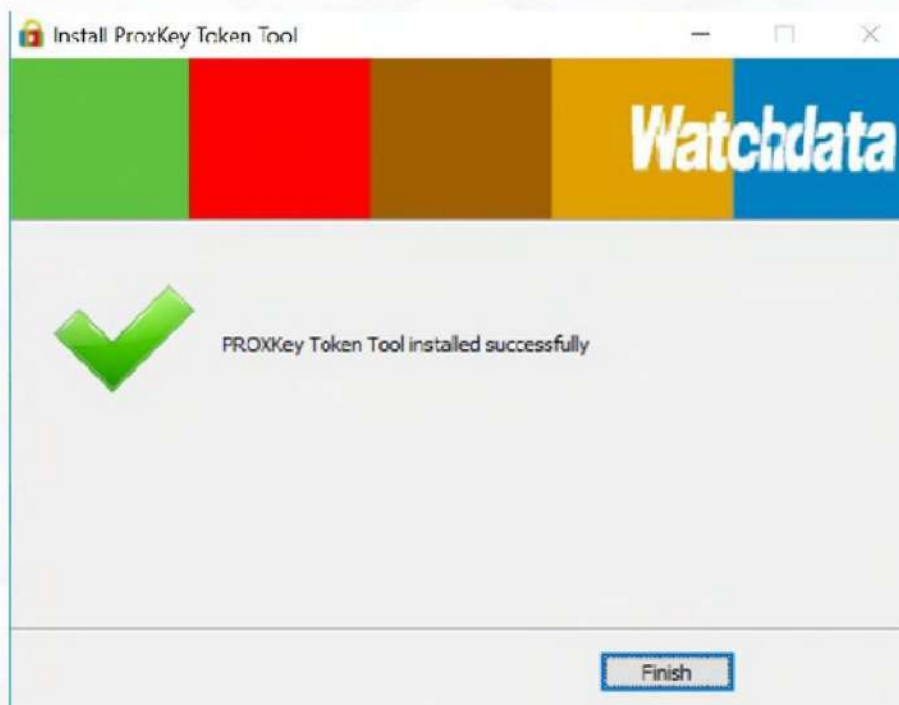


Figure 2 Installation

4. PROXKey Tool

4.1 Launching PROXKeyTool

The PROXKey tool can be launched using the short cut icon created on the desktop during installation, or can be found by clicking Start menu on windows and then finding the WD PROXKeyTool. The User Interface of PROX Key Token tool is easy and elegantas shown in Figure 3. All the functionalities are represented by icons which are easy to access with just a click of mouse button.

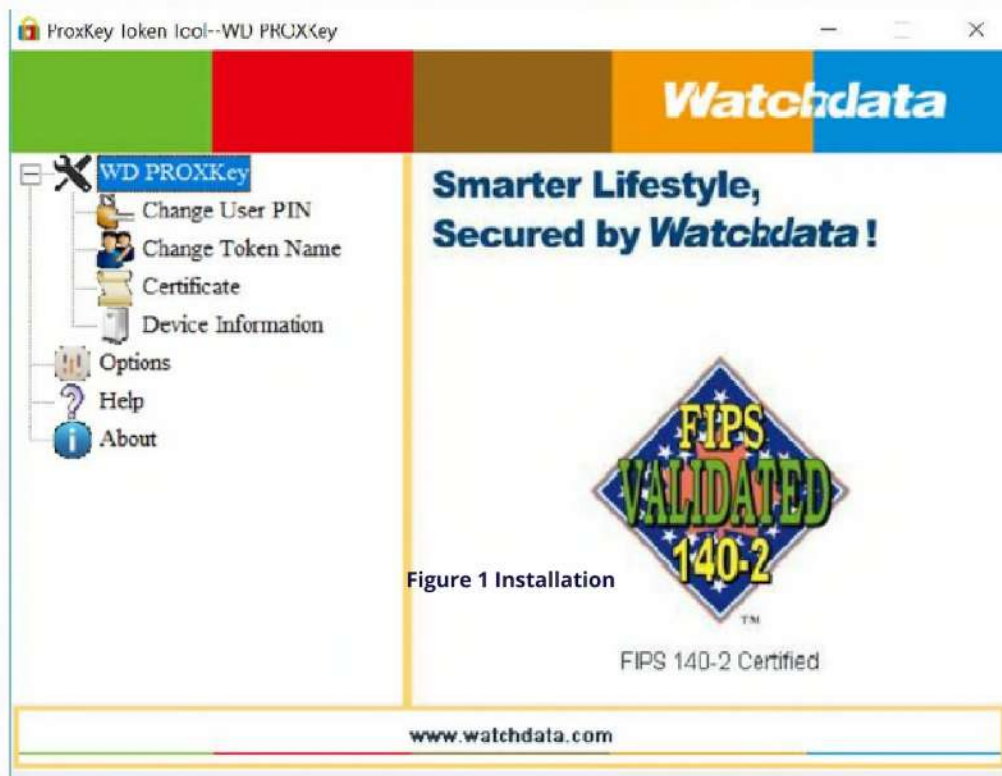


Figure 3 PROXKey Token Tool Main Menu

During PROXKey administrator's tool running, the label of the tool will display in the right - handbottom corner as shown in Figure 4.



Figure 4 Running Label of PROXKeyTool

4.2 PROXKey Tool Overview

After the installation of the software and when the token is plugged in, the user will be advised to set the PIN as shown in Figure 5. The user should enter the appropriate PIN length between 6-32 characters and set the user PIN. Each new token must be set with a user defined PIN. The length of the PIN should be between 6-32 (Alpha Numeric) characters. This PIN can be reset by the user later if needed.

Figure 5 shows the Set User PIN prompt and Figure 6(a) shows the successful PIN set. If the PIN is entered exceed the range of 6 to 32 characters, a warning window like Figure 6(b) will pop out to tell you PIN for the token requirements.

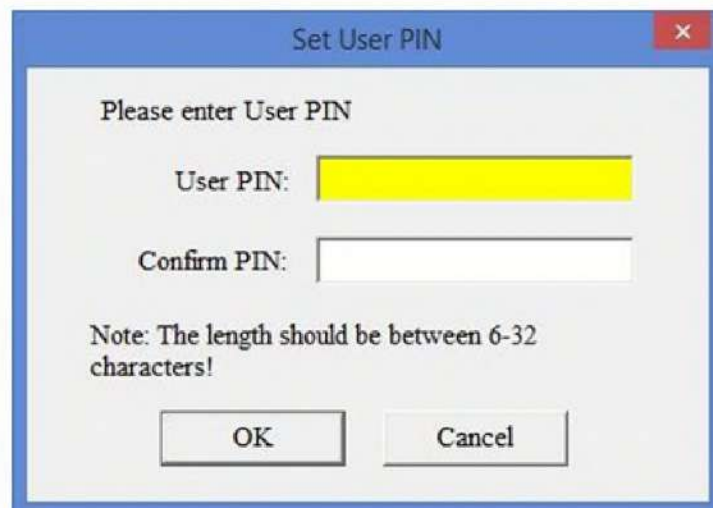


Figure 5 Setting up User PIN

Once the proper PIN is set the dialogs shown in Figure 6 (a) is prompted and in case of invalid length of PIN setting a dialog as shown in Figure 6 (b) is prompted.



(a)



(b)

Figure 6 Set PIN Successful and Warning

Figure 3 shows the basic functionalities of the PROXKey token tool.

1. Change User PIN
2. Change Token Name
3. Certificate
4. Device Information
5. Options
6. Help
7. About

Change PIN

If the user wants to change the PIN which was set earlier this option helps to set a new PIN. The user needs to remember his earlier set PIN which needs to enter first and then set a new PIN as showing Figure 7. There is an added option of even using the soft keyboard to enter the PIN.

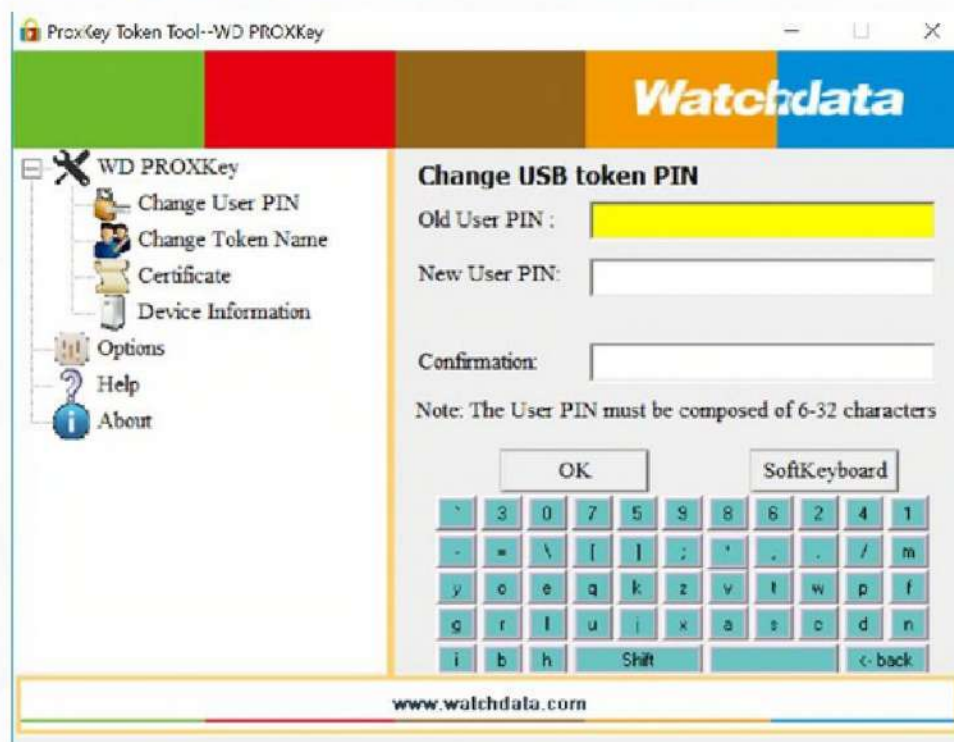


Figure 7 Change PIN

However, when the user tries to change the USER PIN he needs to enter the old USER PIN and confirm the old USER PIN and then enter the new USER PIN the maximum User PIN error counter is set by default to 10 so the user cannot try to update the password more than 10 times.

As shown in Figure 8 user gets 10 attempts by default in case he wants to reset the USER PIN. If the user has forgotten the USER PIN, please contact the support for help.



Figure 8 Change USER PIN fail

Change Token Name

The default token name is "WD Proxkey", but users can change their token names based on their certificate requirements.

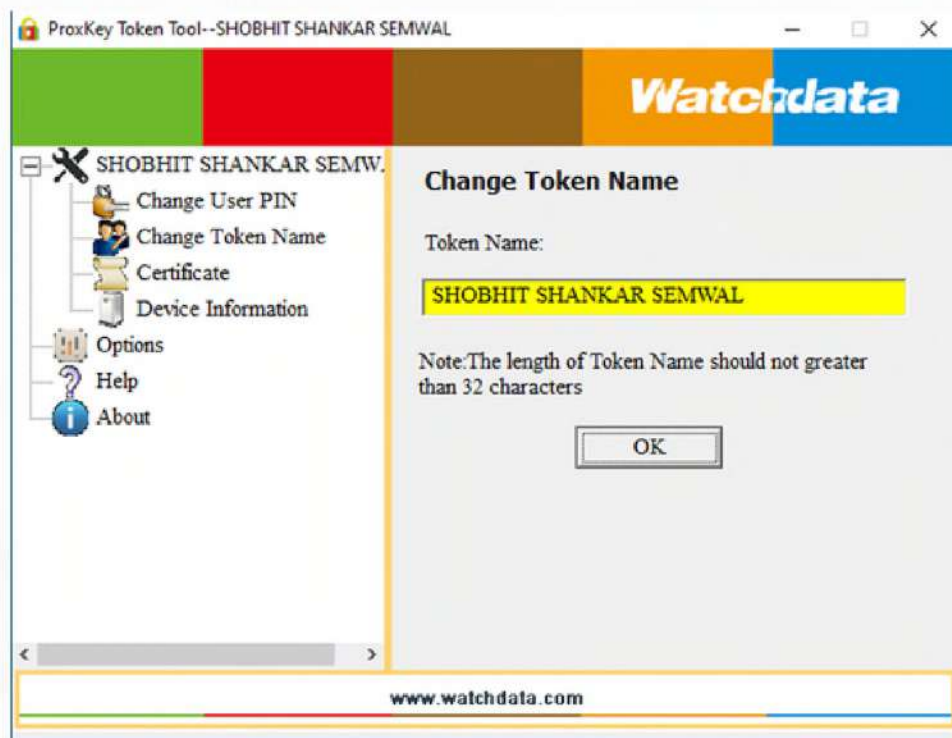


Figure 9 Change Token name

Certificate

The PROXKey tokens have automatic update feature, where in when the new software is released for the tokens it will be uploaded in the FTP. When the "Update" is clicked with the proper internet connection the token software automatically updates itself providing ease of use for the user. Figure 12 shows the update process.



Figure 10 Certificate

Show Certificate

This function shows the certificate details such as the issuer information, issued to information and validity information.

Delete Certificate

This feature enables to delete the unwanted certificates, the user PIN is needed to delete the certificates which are not needed.

Import Certificate

Import Certificate feature enables the user to import the certificates into the token, the user PIN is needed to import the certificates in the token.

Device Information

Device information provides the token information and the system environment as shown in the figure. Such as the Windows version, IE version,

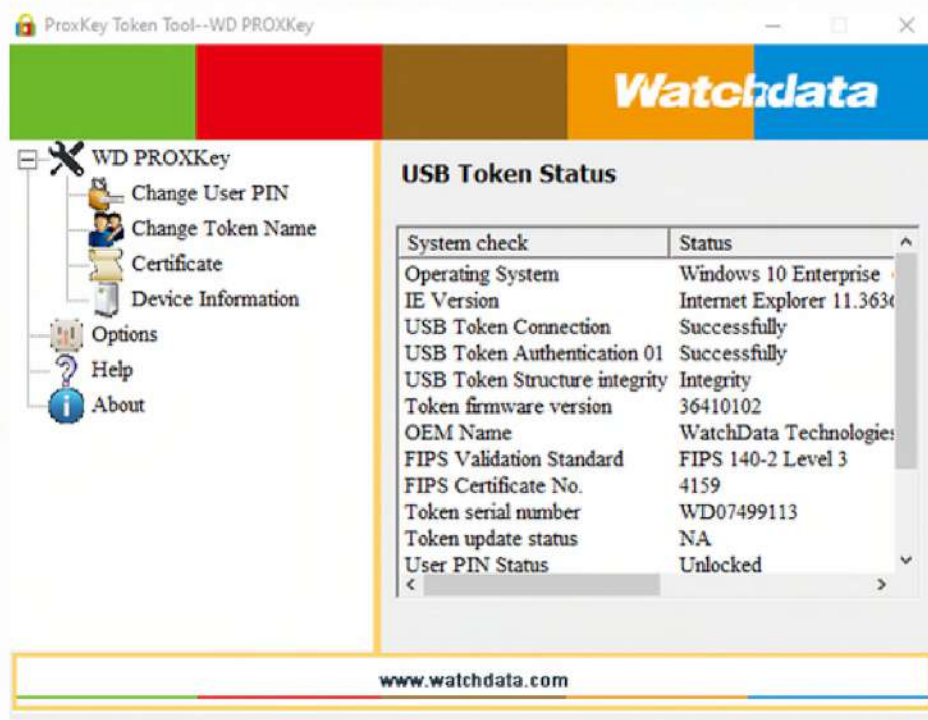


Figure 11 Device Information

Options

- Cache User PIN

This is used to cache the USER PIN of the token so that when the token is used for multiple signing the token do not prompt to enter the USER PIN again and again. This is valid until the token is plugged out from the system. Once the token is plugged this feature must be again selected to cache the password. Figure 12 shows all the submenus when

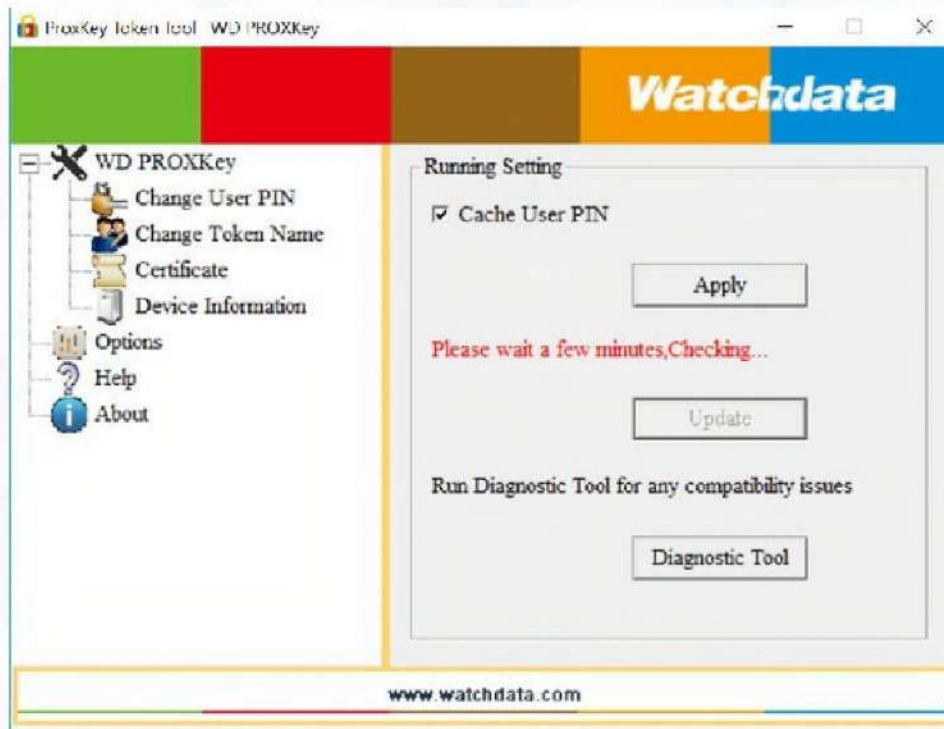


Figure 12 Update

- Update

The PROXKey tokens have automatic update feature, where in when the new software is released for the tokens it will be uploaded in the FTP. When the “Update” is clicked with the proper internet connection the token software automatically updates itself providing ease of use for the user. Figure 12 shows the update process.

- Diagnostic Tool

Diagnostic tool can be used to understand the user system configurations; this basically helps to understand the technical issues or compatibility issue. This tool helps the support team to get The end use system details. The diagnostic tool also creates a log file which will be helpful for the support team to resolve issues. Figure 13 shows the Diagnostic Tool working.

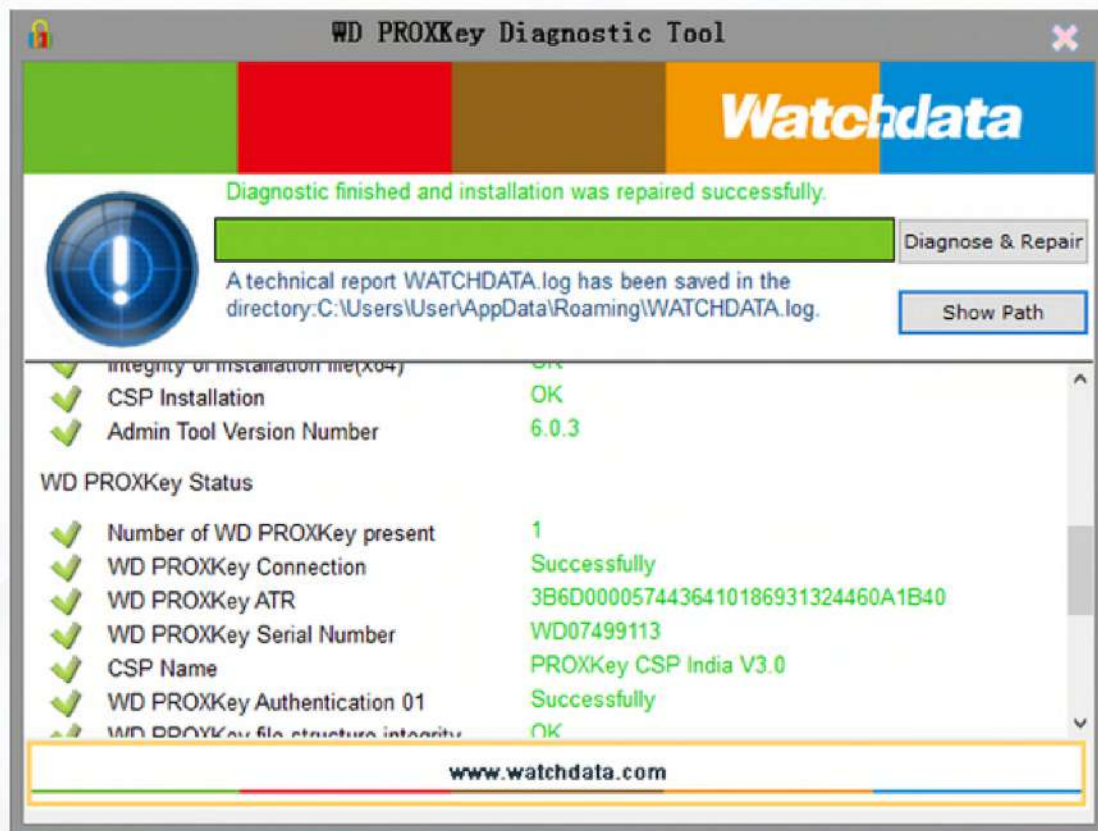


Figure 13 Diagnostic Tool

Help

This will help the end user for the support related help Remote for support helps in using team viewer support and support website Figure 14 shows the help menu



Figure 14 Help Menu

- Support

Centralized access to information through knowledge portals can improve efficiency and productivity. Clients can quickly find the solution they need, reducing the time spent searching for relevant errors across various sources. Figure 15 showing knowledge portal.

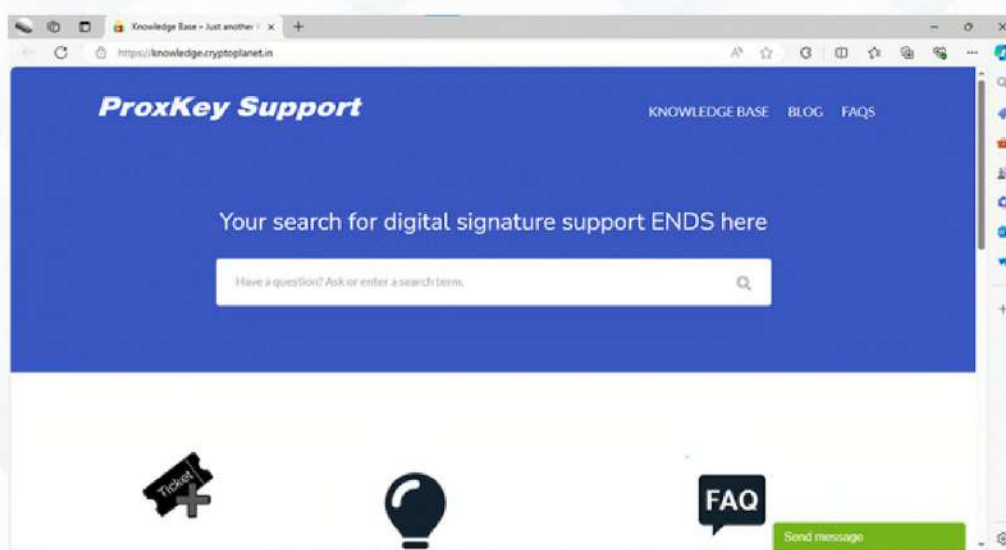


Figure 15 Support

- Remote Access

Remote assistance software is accessible in the Token user interface with a single click. This feature eliminates compatibility issues between the user and the support executive, ensuring hassle-free error resolution.

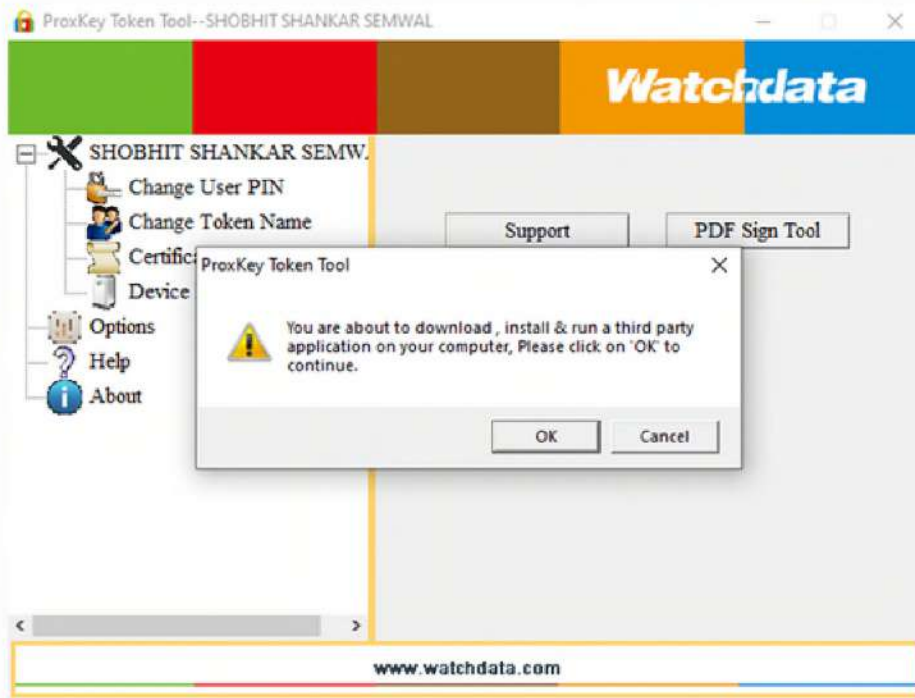


Figure 16 RemoteAccess

- PDF Sign Tool

Digitally sign PDFs, bulk sign Office documents, and other file formats effortlessly using 'ProxKey Signature', streamlining the signing process across different document types.

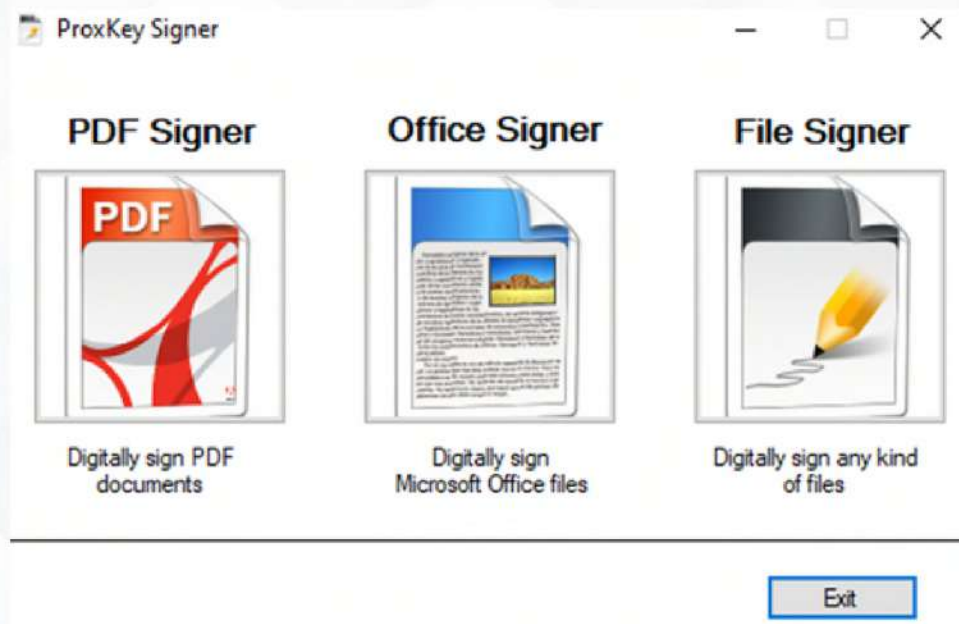


Figure 17 PDF Sign Tool

About

This shows the version and copyright information of the company and the version name of the software the user is using

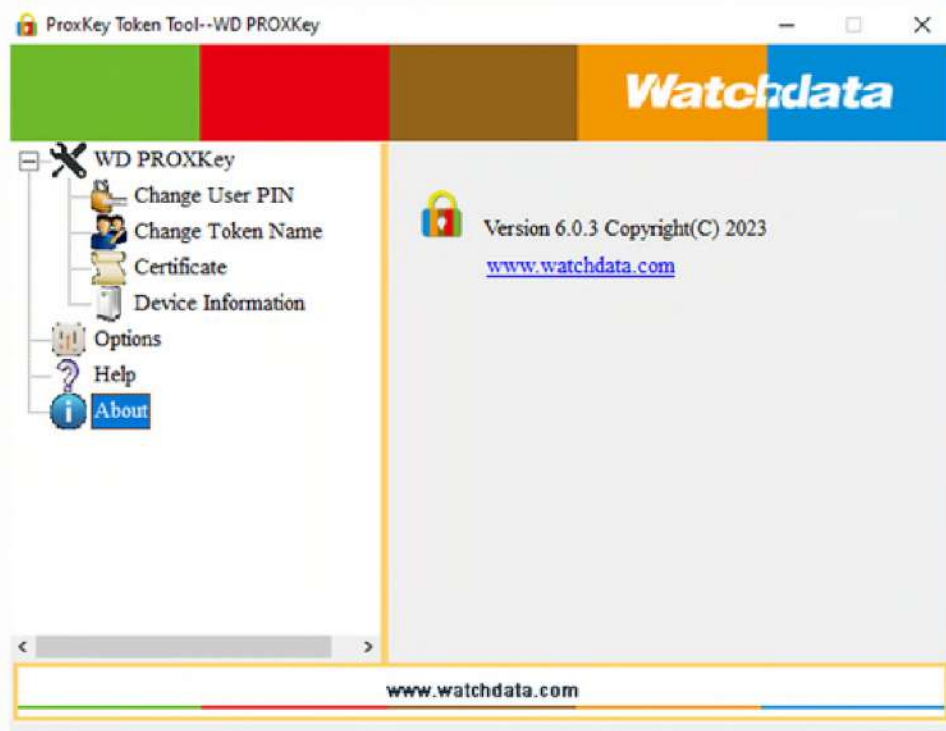


Figure 18 About

5. Support

For any assistance and support about the PROXKey token or the PROXKey Tool please find the help icon on the left hand top corner, click the Help>About(A) icon and you can find the link for the PROXKey Tool and PROXKey token support as shown in the Figure 13 and the website where the contact details can be found is as shown in Figure 13

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