ThinkVantage Fingerprint Software

Contents

Chapter 1. Installing ThinkVantage Fingerprint Software

Welcome to the ThinkVantage Fingerprint Software application, which introduces biometric fingerprint technology to offer you superior security and convenience. This application is intended for Windows 2000 and Windows XP computers.

Note: Administrator rights are required to install or uninstall the ThinkVantage Fingerprint Software application.

Installing the software

An administrator can install the ThinkVantage Fingerprint Software application on any computer running Windows 2000, Windows XP Home Edition, or Windows XP Professional Edition. A USB port might be required to connect an external fingerprint sensor.

To install the ThinkVantage Fingerprint Software application, complete the following procedure:

1. Insert your installation CD into the CD-ROM drive.

   The ThinkVantage Fingerprint Software screen is displayed.

2. Click the Software Installation icon. If this screen does not display, run Setup.exe manually.

   The Welcome screen is displayed.

3. Click **Next** to continue.

   The License Agreement is displayed.

4. Read the License Agreement carefully.

5. Accept the License Agreement by selecting the appropriate radio button.

   Note: You must agree to the License Agreement to install this product. Click **Cancel** to close the application if you do not agree to the Licence Agreement.

   The User Information screen is displayed.

6. Enter your user information and then click **Next** to continue.

7. Confirm or select an installation directory and Start menu folder.

8. Restart your computer when prompted.

   The installation process is complete. After you restart the computer, the logon screen is displayed.

Note: During installation, all necessary device drivers are installed. If you intend to use an external fingerprint sensor, connect your fingerprint hardware *after* completing the installation process and restarting your computer.

Uninstalling the software

To uninstall the ThinkVantage Fingerprint Software application, complete the following procedure:

1. Click **Start > Settings > Control Panel** and then double-click the **Add or Remove Programs** icon.

2. Select ThinkVantage Fingerprint Software and click the **Change/Remove** button.

3. Click the **Remove** button.

You will be asked what to do with the ThinkVantage Fingerprint Software passports stored on your computer. There are two possibilities:

- You can leave all the data on your computer. This selection enables you to re-install the ThinkVantage Fingerprint Software application later and continue using any enrolled fingerprints.

- You can remove the ThinkVantage Fingerprint Software data from your computer. This selection permanently deletes all enrolled fingerprints.

If you have enabled the power-on security feature of the software, you will be asked whether to disable it or to leave it functional. If you leave power-on fingerprint authentication enabled, access to your computer will continue to be protected by fingerprints on the BIOS level; however, you will not be able to edit the fingerprints stored on the computer without re-installing the ThinkVantage Fingerprint Software application.

Chapter 2. Getting started

This chapter helps you get started using the ThinkVantage Fingerprint Software application.

Logging on for the first time

After installing the ThinkVantage Fingerprint Software application and log on, the ThinkVantage Fingerprint Software *Control Center*, is displayed.

Using the Control Center

The Control Center provides a common user interface for all the ThinkVantage Fingerprint Software components. Use it to get basic information and to access ThinkVantage Fingerprint Software functions. For a list of all available functions, see Chapter 3. , "Using ThinkVantage Fingerprint Software," on page 5.

To use the ThinkVantage Fingerprint Software Control Center, complete the following procedure:

1. Select **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. The Control Center main screen is displayed. On this screen, topics are displayed. Click the topic to display a topic screen listing the valid actions available for that topic. The topics include Fingerprints, Settings, the Tutorial and the Help.
3. Click a topic to display valid actions available for that topic.

Creating a new passport

Note: Each Windows NT user must have a unique ThinkVantage Fingerprint Software passport.

To create a new passport, complete the following procedure:

1. Click the Fingerprints topic in the Control Center. Click **Enroll or Edit Fingerprints**.
2. Read the information on the first wizard screen. Click **Next** to continue.
3. Enter your user name, password, and domain (if applicable) and click **Next**.
4. Read instructions how to create fingerprint samples. Click **Next** to proceed with fingerprint tutorial. Going through this tutorial is highly recommended for the first-time users.
5. The tutorial will show you a short video showing correct and incorrect fingerprint scanning. Then you will try to create you first fingerprint samples. Simply follow the on-screen instructions. After you successfully go through tutorial, click **Next** to continue the enrollment process.
6. A page with hands is displayed. Click a finger you want to enroll to select it and run the enrollment process.

7. You must create three samples of the selected finger, which are combined into a single fingerprint *passport*. Swipe your finger across the fingerprint sensor until you have created three acceptable samples.

8. If your sensor supports power-on security, a **Power-on** button is also displayed above each finger. This button is shown as pressed by default - which means that your finger is automatically added also for power-on authentication.

9. Do one of the following:
   - Select another finger to enroll. (It is recommended to enroll at least two fingers.)
   - Click **Next**.

10. For fingers added for power-on security, you must perform operations described on the finalization page:
    - Power-off your computer.
    - Turn on your computer.
    - Swipe your finger when prompted. Enter your power-on password(s) when prompted. (This creates a connection between fingers and password(s).)

11. When you are done, click **Finish**.

Chapter 3. Using ThinkVantage Fingerprint Software

This chapter describes ThinkVantage Fingerprint Software procedures and functions.

To launch the ThinkVantage Fingerprint Software application, click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.

The Control Center main screen is displayed. On this screen, topics are displayed. Click the topic to display a list of valid actions available for that topic. The topics include Fingerprints, Settings, the Tutorial, and the Help.

Notes:

1. You must establish a Windows password to protect your computer. If a Windows password is not established, the ThinkVantage Fingerprint Software application cannot secure access to your computer.

2. ThinkVantage Fingerprint Software also cooperates with Novell network logon. Novell 3.x,4.x and 5.x networks, and both Novell Client for Windows and Microsoft native support for Novell are supported. In order for ThinkVantage Fingerprint Software to log you on automatically to a Novell network, your Windows user name and password must match your Novell user name and password.

The logon screen

ThinkVantage Fingerprint Software can use the Client Security Solution, the fingerprint sensor hardware, and *passports* to authenticate users. Each *passport* file contains biometric fingerprint data used to authenticate a user.

When you log onto your computer, the ThinkVantage Fingerprint Software logon screen will display prompting you either swipe your finger over the fingerprint sensor, or to press **Ctrl + Alt + Del** to log on using a password.

Each user must authenticate using his fingerprint when logging on to the computer and after a password-protected Windows screen saver is displayed to protect access to the computer.

The Control Center

The Control Center main screen is displayed when you launch the application for the first time. On this screen, topics are displayed. Click the topic to display a topic screen listing the valid actions available for that topic. The topics include **Fingerprints**, **Settings**, the **Tutorial**, and the **Help**.

Fingerprints

The Fingerprints section enables you to enroll, edit and delete passports, and to export/import them. The list of available actions might differ depending on the installed version of ThinkVantage Fingerprint Software, the authentication hardware, the existing passports, and the access privileges of the current user.

Each user identity in ThinkVantage Fingerprint Software is represented by a *passport*, which contains biometric fingerprint data used to authenticate the user to the computer. Each Windows NT user can have only one passport.

Enroll or Edit Fingerprints

Note: In secure mode, administrators can enroll passports for all users, or user self-enrolment during logon can be enabled.

To create a new passport and enroll fingerprints, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. Click **Fingerprints**, if necessary.
3. Click **Enroll or Edit Fingerprints**.
4. Enter the Windows password and click **Next**.
5. Read the information on the first wizard screen. Click **Next** to continue.
6. Enter the user name, password, and domain (if applicable) and click **Next**.
7. Read instructions how to create fingerprint samples. Click **Next** to proceed with fingerprint tutorial. Going through this tutorial is highly recommended for the first-time users.
8. The tutorial will show you a short video showing correct and incorrect fingerprint scanning. Then you will try to create you first fingerprint samples. Simply follow the on-screen instructions. After you successfully go through the tutorial, click **Next** to continue the enrollment process.
9. A page with hands is displayed. Click a finger you want to enroll to select it and run the enrollment process.
10. You must create three samples of the selected finger, which are combined into a single fingerprint *passport*.

    Swipe your finger across the fingerprint sensor. Three successful images are required to enroll one fingerprint. You can enroll up to ten fingers. However, two passports cannot include the same finger.
11. If your sensor supports power-on security, a **Power-on** button is also displayed above each finger. This button is shown as pressed by default - which means that your finger is automatically added also for power-on authentication.
12. Do one of the following:
    - Select another finger to enroll. (It is recommended to enroll at least two fingers.)
    - Click **Next**.
13. For fingers added for power-on security, you must perform operations described on the finalization page:
    - Power-off your computer.
    - Turn on your computer.
    - Swipe your finger when prompted. Enter your power-on password(s) when prompted.
      (This creates a connection between fingers and password(s).)
14. When you are done, click **Finish**.

To edit a passport and fingerprints, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. Click **Fingerprints**, if necessary.
3. Click**Enroll or Edit Fingerprints**.

4. The Opening user passport screen is displayed.

5. Swipe your finger over the fingerprint sensor or enter your Windows password, and click **Next**.

6. Do one of the following:

   • To enroll a new fingerprint, complete the following procedure:
   - Select a finger to enroll by either clicking the appropriate image or by selecting from the drop-down menu and then click **Enroll**.
   - Swipe the selected finger across the fingerprint sensor. Three successful images are required to enroll one fingerprint. You can enroll up to ten fingers. However, two passports cannot include the same finger.
   - Repeat the process to enroll more fingerprints, if desired.

   • To delete a fingerprint, complete the following procedure:
   - Select a finger to delete by clicking the appropriate image.
   - Click **OK** to confirm the delete operation.

7. When done enrolling or deleting fingerprints, click **Next**.

If your authentication device supports power-on security, the Power-on Security screen is displayed. For information about the power-on security feature, see "Power-on security". Make your selections and click **Finish**.

Delete

Note: In secure mode, only administrators can delete passports.

To delete an existing passport:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.

2. Click **Fingerprints**, if necessary.

3. Click **Delete**.

   • In convenient mode, confirm deleting the current passport.

   • In secure mode, a list of existing passports is displayed. Select the passport that you want to delete and click **Finish**.

If you had enrolled fingerprints into the power-on security feature, you are given the option to delete the fingerprints corresponding to this passport. If you are using the power-on security feature and decide not to delete the enrolled fingerprints, you will need to either enroll a new passport at log on or press **Ctrl + Alt + Del** to log on using a password

Import or Export User

Note: An administrator can delete any passport. A limited user can delete his own passport only.

To export an existing passport:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.

2. Click **Fingerprints**, if necessary

3. Click **Import or Export User**.

4. Select the destination file (.vtp extension).

5. Type a password which will protect the exported data, verify your finger.

To import a passport archive:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. Click **Fingerprints**, if necessary
3. Click **Import or Export User**.
4. Browse for the passport file (.vtp extension).
5. Type the password.

Settings

System settings

The System Settings dialog consists of several pages depending on your system configuration. Not all the described pages must be visible in your installation.

General

The **Show Control Center on Windows startup** check box toggles displaying the main program screen on the system startup.

Logon

The Logon Settings screen enables you to perform the following tasks:

- Replace Windows logon with fingerprint-protected logon
- Automatically log on a user verified by power-on security (optional)
- Enable fast user switching support (optional)

Note: Only an administrator can change logon settings. Some changes require you to restart the computer.

To change you logon settings, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. Click **Settings**.
3. Click **System Settings**. Go to the **Logon** page.
4. Select or clear the corresponding check box:

    - **Enable logon support**
      This check box enables you to log onto Windows using fingerprint authentication. When this check box is marked, you can log onto your computer using fingerprint authentication. When this check box is clear, you must log onto your computer using your Windows password.

    - **Do not show CTRL+ALT+DEL message**
      The standard Windows CTRL+ALT+DEL message will not be displayed. Only a hint to swipe a finger will be shown. (The CTRL+ALT+DEL message can be invoked by pressing CTRL+ALT+DEL so that users are able to log on using user name and password.)
      Note: When enabled in FUS, FUS will be turned off.

    - **Allow power-on security single sign-on**
      This check box binds your power-on authentication to your Windows

authentication. If a fingerprint used for power-on security feature matches a fingerprint on an existing passport, the corresponding user is logged onto Windows automatically.
When this check box is marked, the ThinkVantage Fingerprint Software will provide your fingerprint credentials for both power-on authentication and for Windows authentication. When this check box is clear and power-on authentication is enabled, you must provide your fingerprint for authentication twice to log on to Windows.

- **Enable Fast User Switching support**
This check box enables and disables the fast user switching feature of Windows XP, if supported on your computer. When the fast user switching feature is supported, but not enabled, you will be prompted to enable it on your system. When the Client Security Solution is installed, the Windows XP Fast User Switching feature is not supported.

Click **Finish**.

This operation requires you to restart your computer.

Security Mode

The Security Mode screen enables you to control who has access to fingerprint security management controls. There are two security modes - convenient and secure. In the convenient mode, all users share the same privileges. For example, every user can create his own local passport or select a default passport type.

However, if you toggle security to secure mode, the situation changes. Only administrator has an unrestricted access to administrative functions. Standard users need to obtain passports from the administrator (unless user self-enrollment in logon is enabled). They can only edit their own passport. Only administrator can toggle the security back to the convenient mode.

To set a security mode, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.
2. Click **Settings** and go to **Security Mode**.
3. Select the desired security mode. The options are as follows:

   - **Secure mode.** Secure mode introduces an administrator role for performing ThinkVantage Fingerprint Software management. Making sensitive functions available only to administrators adds more security to the computer.
   Click the **Administrators' Groups** button to edit the list of users with administrator rights.
   Check the **Allow user selfenrollment in logon** to allow enrolling fingerprints directly by users without administrator rights.

   - **Convenient mode.** Convenient mode is intended mostly for home usage where ease of use is more important that security.

Note: Only an administrator can change from secure mode to convenient mode.

Sound

Selected sound is used when a fingerprint software operations succeed or fail. You can use your default system sounds, disable sounds, or browse for your favorite audio file (.wav format).

Power-on security

The power-on security feature uses the computer BIOS to prevent unauthorized access to the computer. Computers that have the power-on security feature enabled will not load the operating system prior to successful fingerprint authentication.

During computer startup, a user has ten seconds to swipe his finger over the fingerprint sensor. The computer will boot only if the scanned fingerprint matches an enrolled passport for the current user. After successful verification, the boot process continues normally. If fingerprint authentication fails four times in a row, access is blocked and the computer must be restarted.

Enabling power-on security in the fingerprint software

The power-on security feature can be enabled in the fingerprint software only after a fingerprint has been enrolled into the power-on security memory. When power-on security support is detected during passport creation, the power-on security screens will be displayed automatically. The power-on security feature is disabled by default.

To enable the power-on security feature using the ThinkVantage Fingerprint Software interface, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.

2. Click **Settings**.

3. Click **Power-on security**.

The Power-on security screen is displayed.

4. Select the **Replace power-on password with fingerprint** check box and click **Finish**.

5. Click **Add** and select a fingerprint from the displayed field.

After a fingerprint has been added to the power-on security memory, it is listed in the Authorized fingerprints for power-on security window.

6. Add more fingerprints, as necessary.

7. Click **Finish**.

8. Set up a power-on password using the BIOS Setup utility, if not set previously.

The Authorized fingerprints for power-on security window of the Power-on security screen lists fingerprints present in the power-on security device memory. A green fingerprint icon indicates fingerprints from the current user. A gray fingerprint icon indicates fingerprints from other users.

Note: Changing a passport (adding or deleting a fingerprint) does not automatically add or remove the fingerprint for power-on security use.

Enabling a power-on password in the BIOS Setup utility

To enable the power-on security feature of the fingerprint software, you must enable a power-on password using the BIOS Setup utility. This BIOS setting must be set for the ThinkVantage Fingerprint Software power-on security feature to function correctly.

To enable a BIOS password, complete the following generic procedure:

1. Restart your computer.

2. When prompted during startup, press F1 or the BIOS-specific startup interrupt key to launch the BIOS Setup utility.

3. Select **Security** and verify that a power-on password is set.

4. Enable the power-on or hard drive password feature, if desired.

5. Press F10 to save your changes and exit the BIOS Setup utility.

6. Press Enter to confirm.

Notes:

- Your power-on password is required at your subsequent log on. This enables the fingerprint software to complete the connection between the fingerprint and the BIOS power-on security.

- Actual steps might differ depending upon the BIOS utility installed on your computer.

Enabling automatic logon of users verified by power-on security

The power-on security feature can also be set to log the user onto Windows. When this feature is enabled, if the power-on security fingerprint matches a fingerprint on an existing passport, the corresponding user is logged onto Windows automatically. This feature saves the user from having to authenticate twice when starting the computer: once for the power-on feature and again to log onto Windows.

To enable automatic Windows logon of users verified by power-on security, complete the following procedure:

1. Click **Start > All Programs > ThinkVantage > Fingerprint Software > Control Center**.

2. Click **Settings**.

3. Click **System settings** and go to the **Logon** page.

4. Select the **Allow power-on security single sign-on** check box.

Tutorial

Strip sensors represent a new type of fingerprint sensors. To help you with your first steps, we created a tutorial where you can try to create fingerprint samples and learn about possible problems.

This tutorial can be run any time from the Control Center, from the **Start** menu, **ThinkVantage** - **ThinkVantage Fingerprint Software** - **Fingerprint Tutorial**. It can be also run from the enrollment wizard.

This tutorial shows a short video with samples of correct and incorrect fingerprint scanning. You will learn some hints how to achieve the best possible quality of scanned samples.

You can try to create your first samples and watch the resulting images. This helps you to improve positioning of fingers and applied pressure.

Help

Click this section to display help.