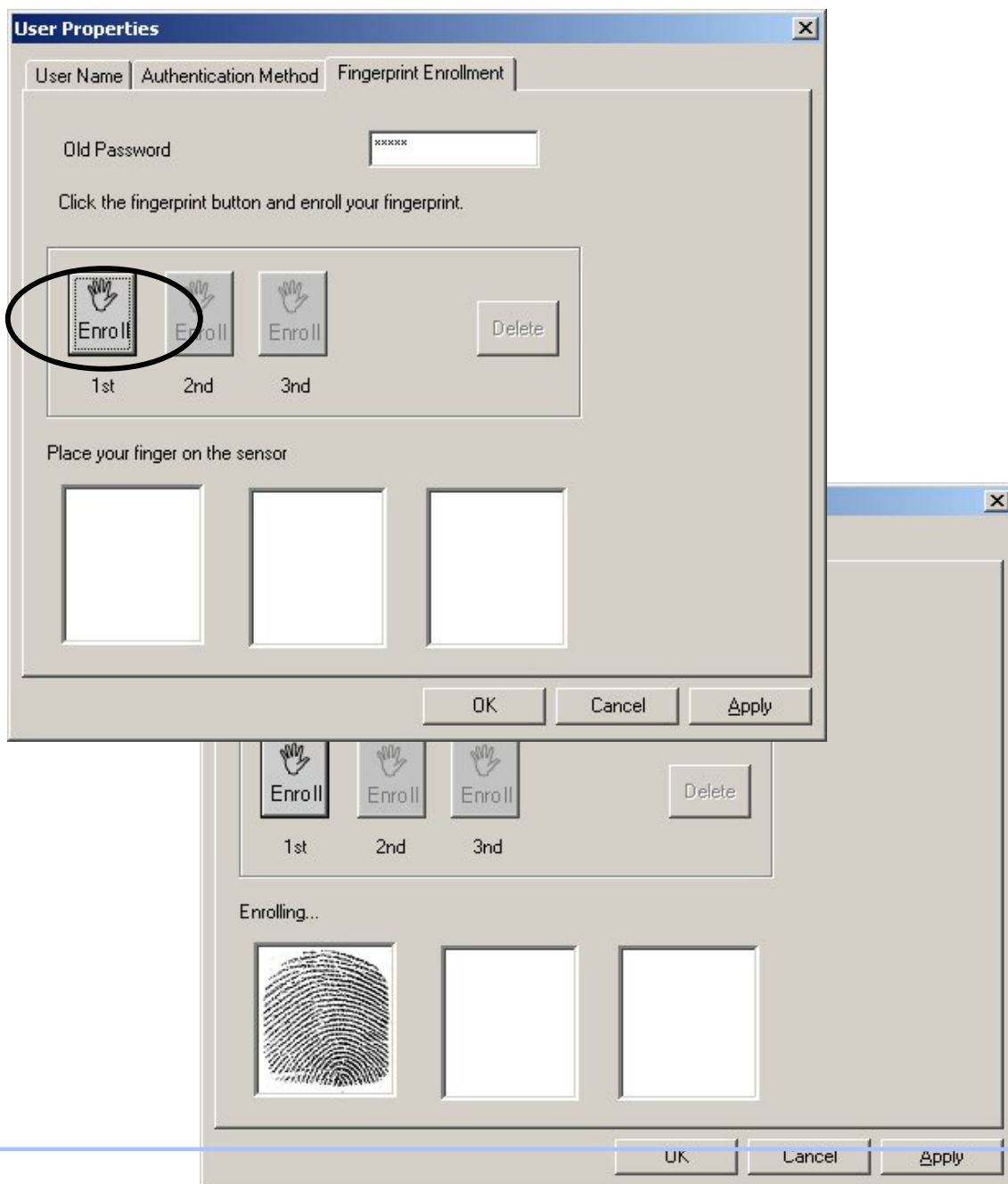
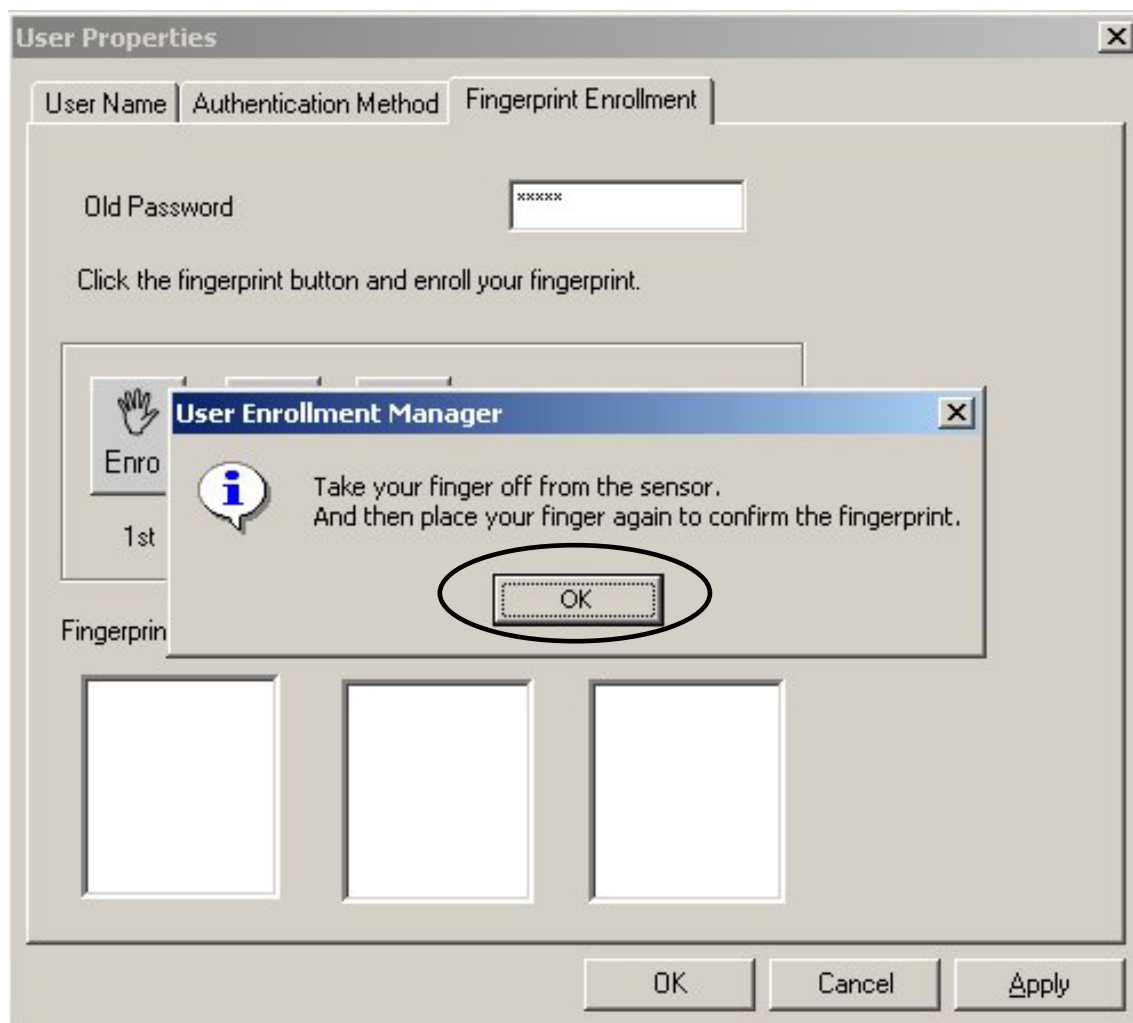


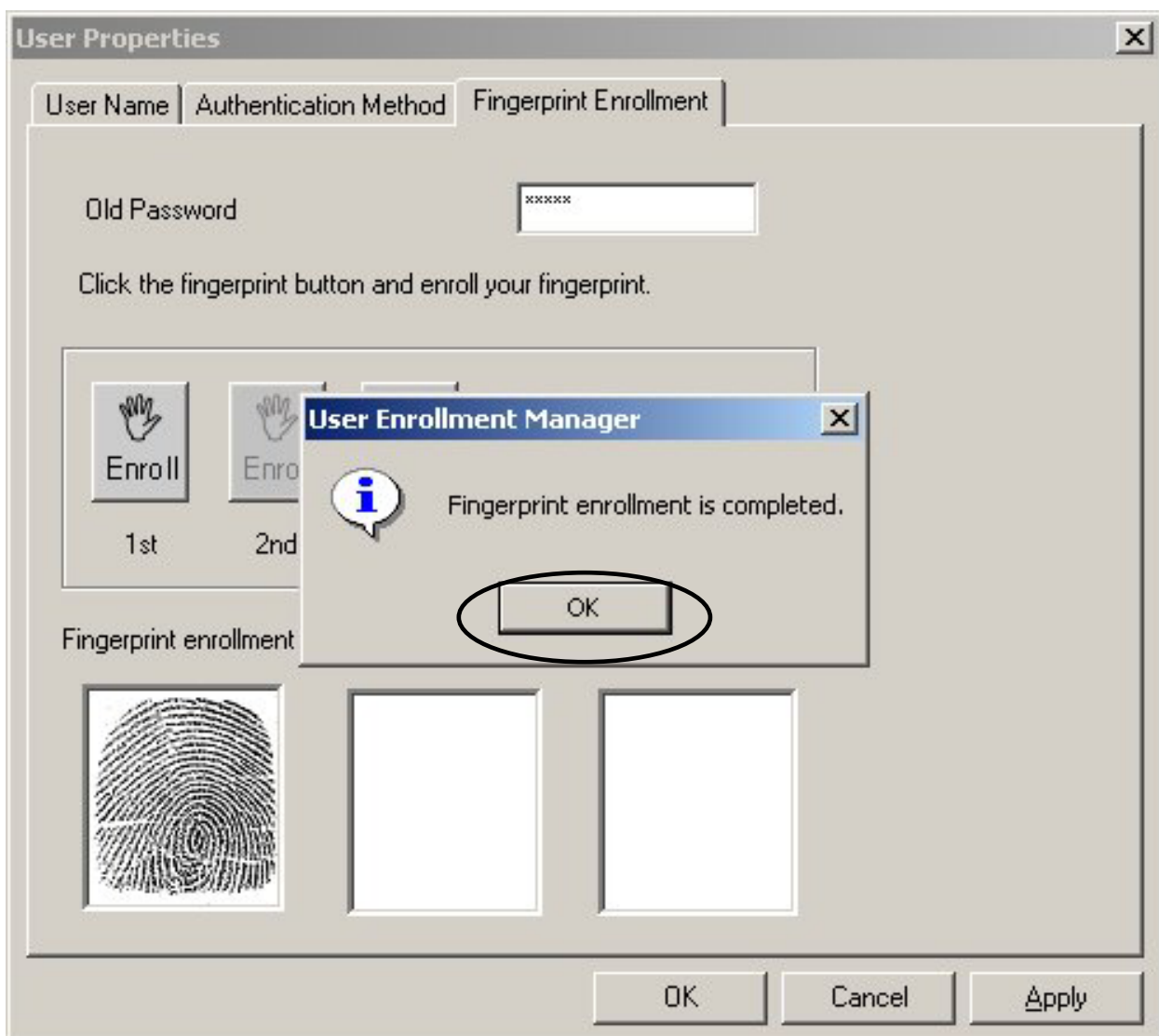
3. Press the button “1st” and the button will be activated. Press it again and the message “Place the fingertip on the sensor” will appear. Place the finger to be used in the registration.



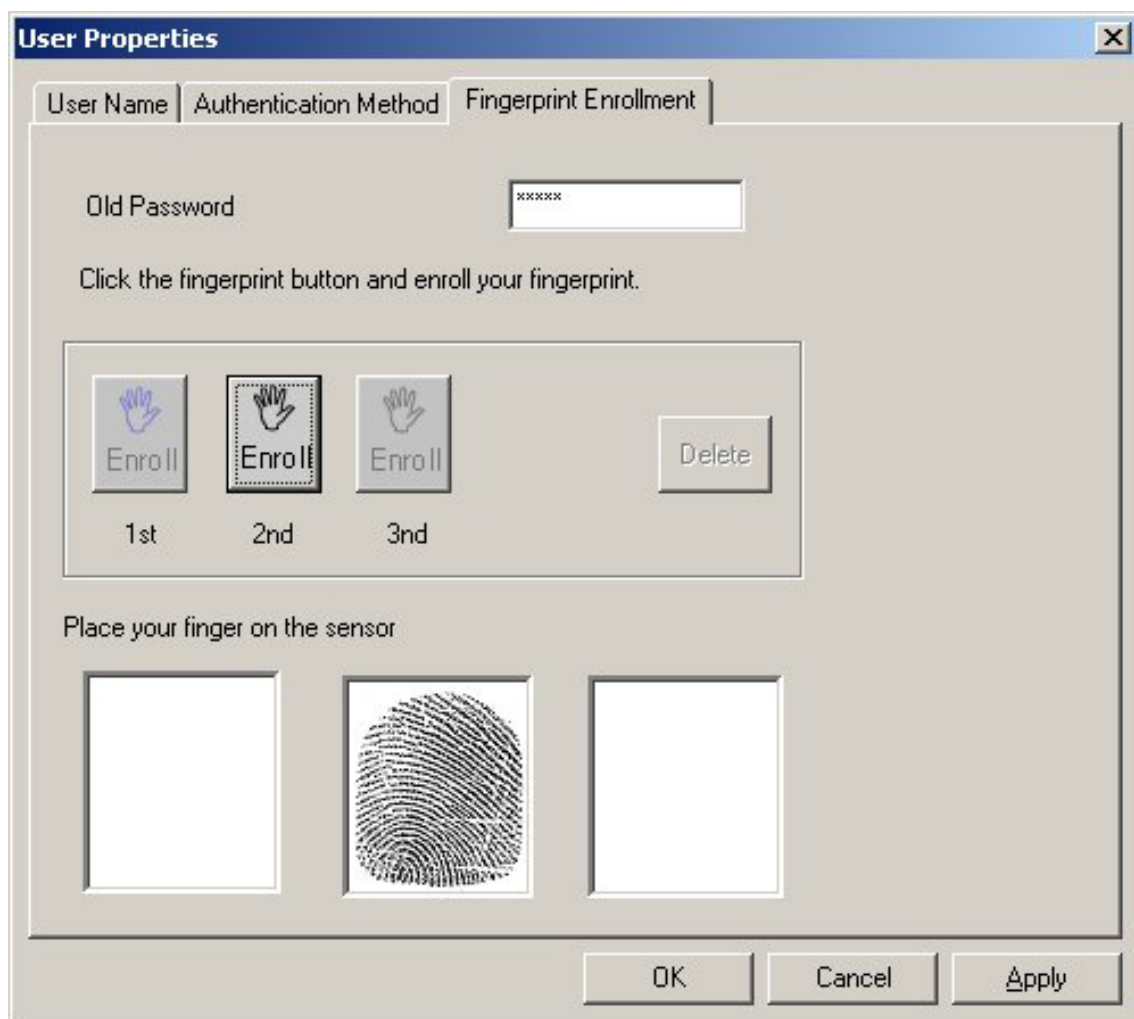
4. For better security, each fingerprint data will be input twice. When the following message appears, place the finger again.



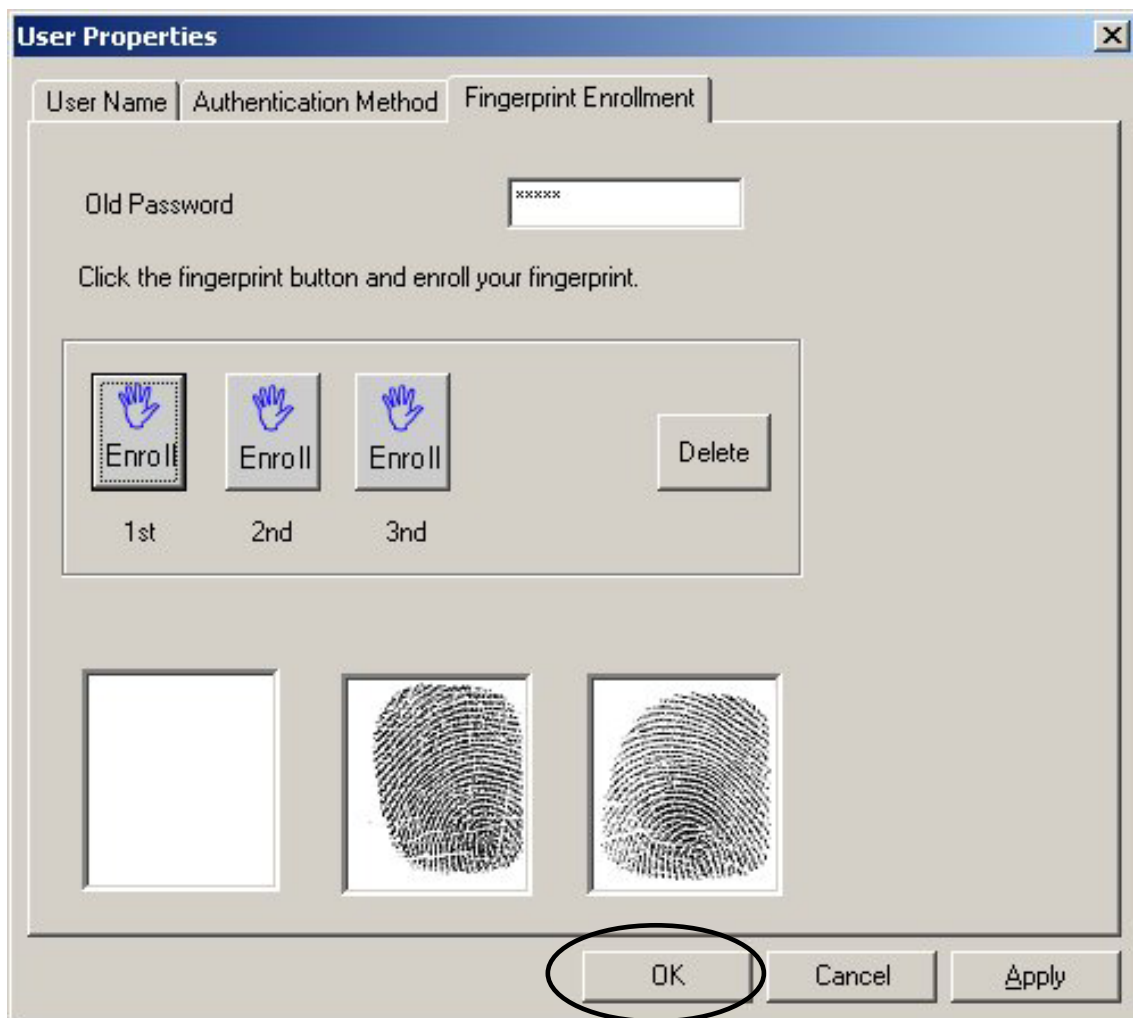
5. When the fingerprint is successfully registered, you will be informed of that. In the confirmation dialogue box, press OK to finish the registration.



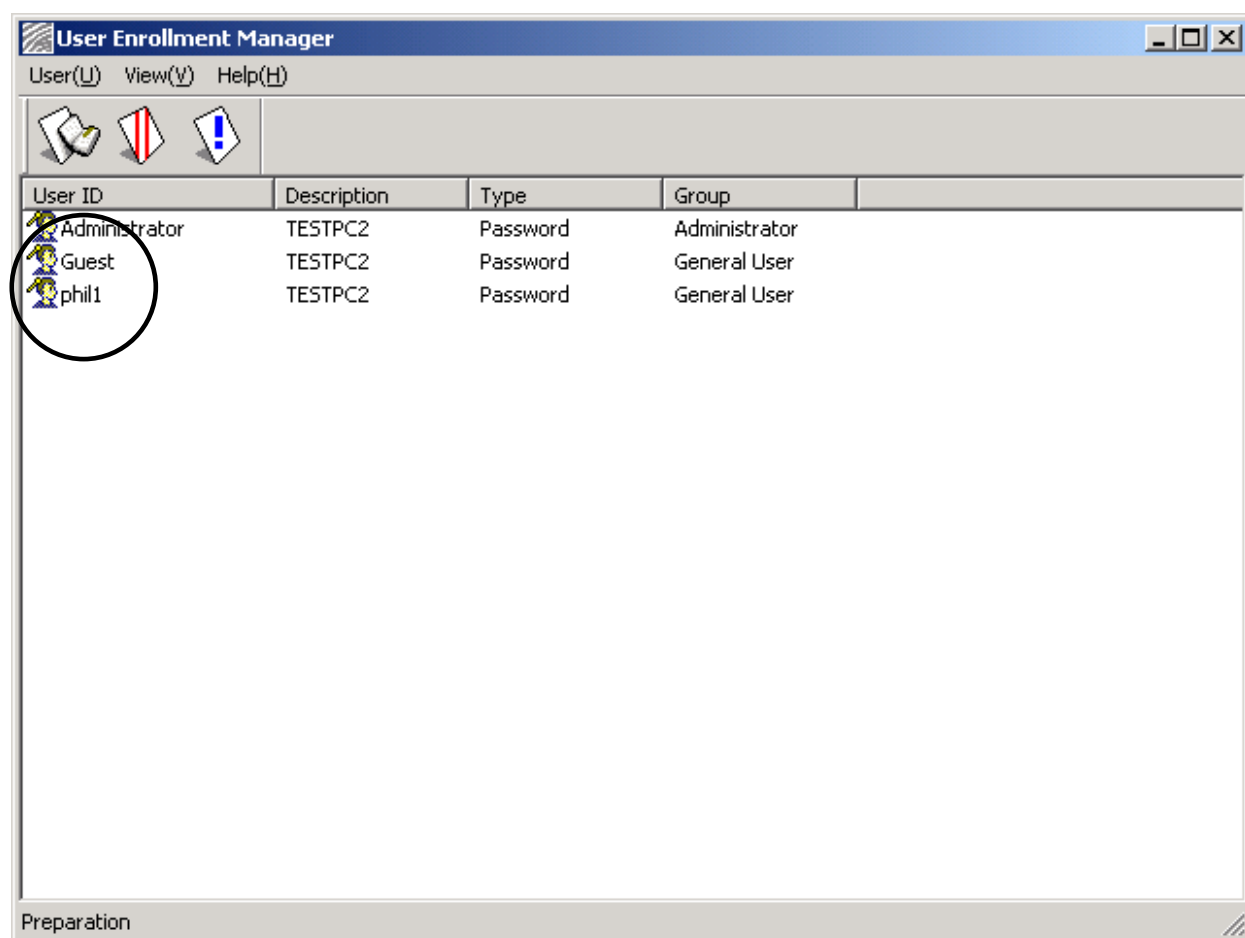
6. When the registration is completed, the icon on the button '1st' will be in blue color. In this case you can be sure that the registration has been successful.



7. You can register the fingerprints up to three in case your fingerprints are impaired. After registering all the fingerprints, press **Apply** or **OK** to apply the current fingerprint data.

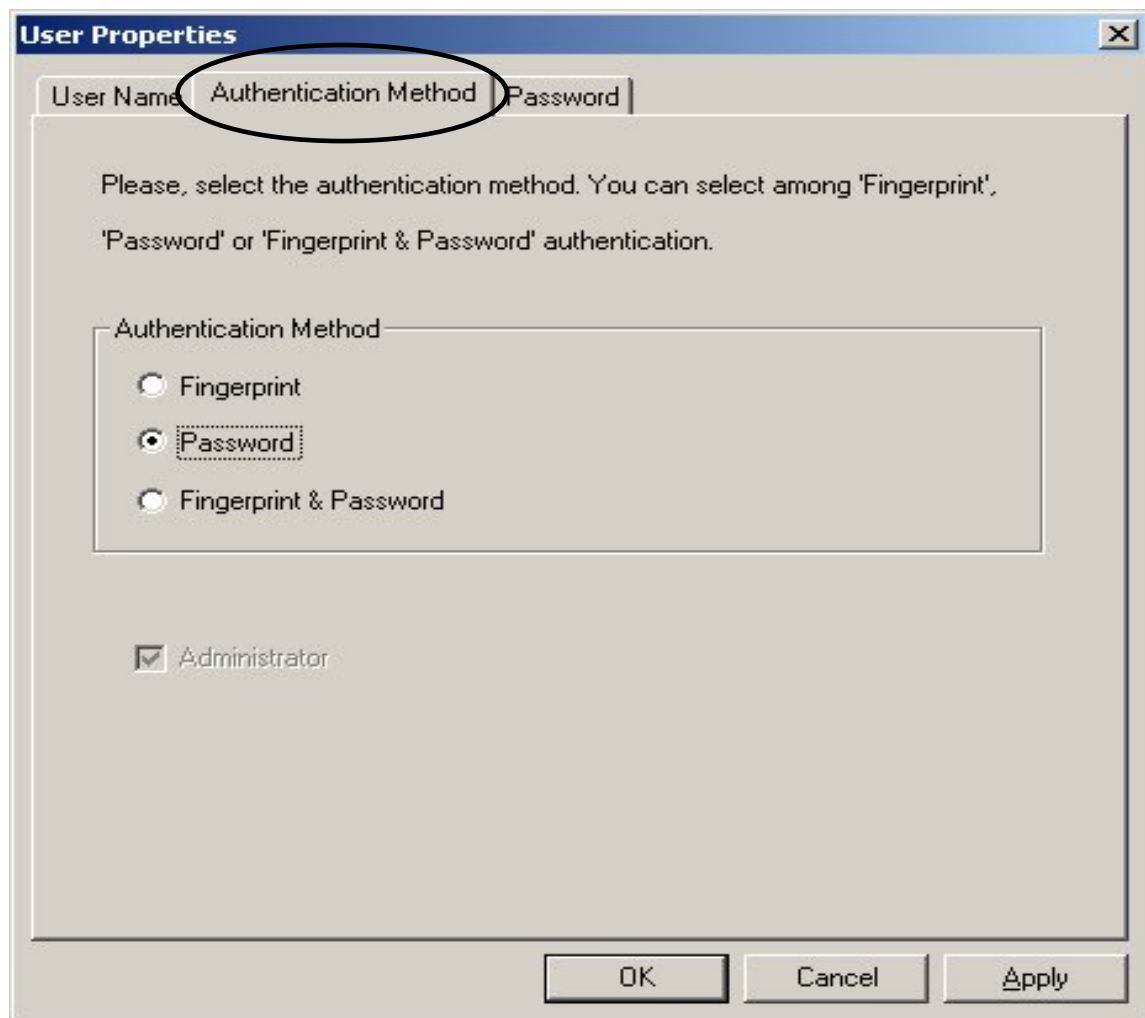


8. You can check that the icon for “phil1” has been changed.

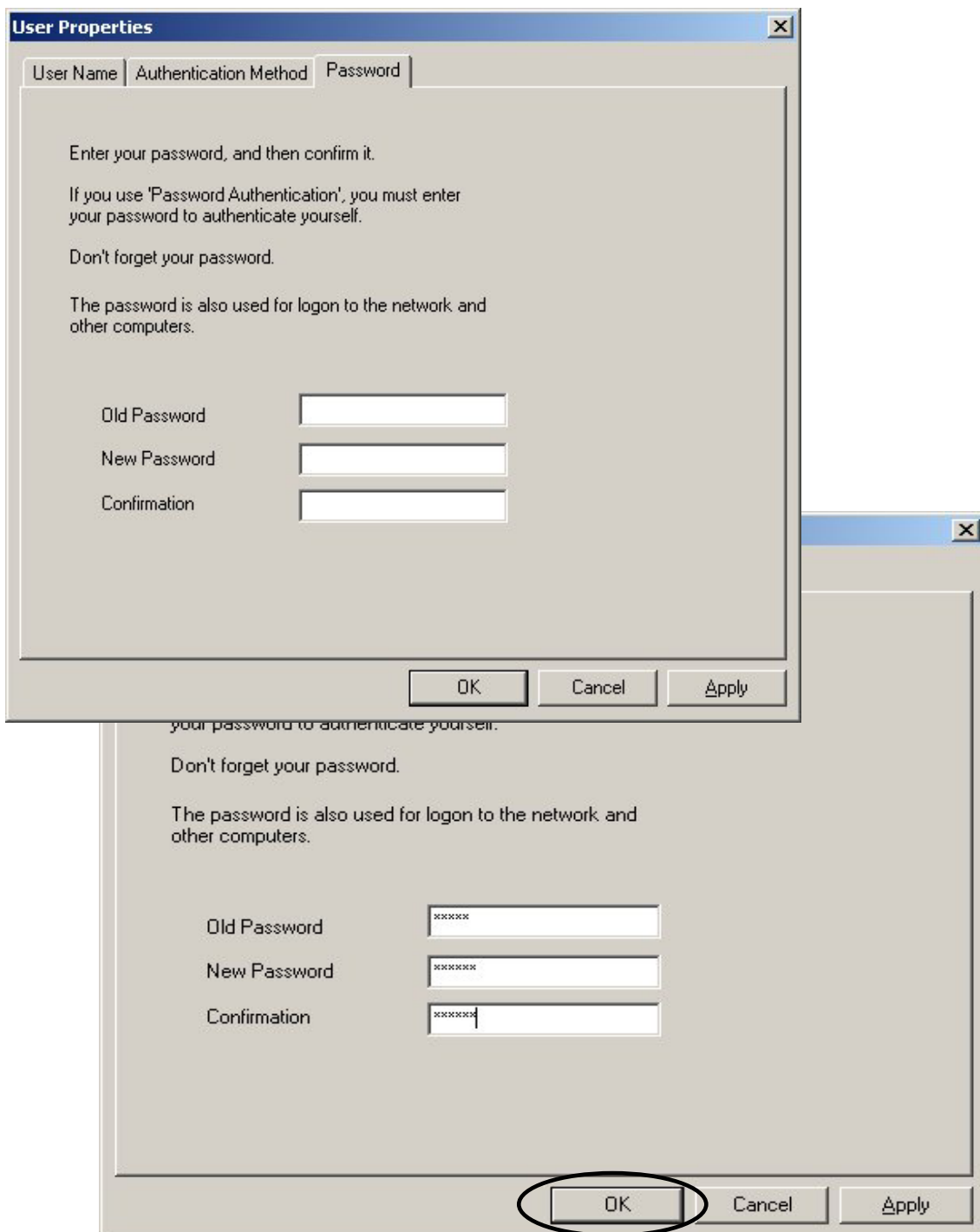


## 2.2 Using Password

1. Double-click on “administrator” in the window **User Manager** and select “Password” among the authentication methods. Then the tab “Password input” will be activated.



2. Select the tab "Password input" and a new window for changing the password will appear. Enter the old password and two of the new password.



**User Properties**

User Name | Authentication Method | Password

Enter your password, and then confirm it.

If you use 'Password Authentication', you must enter your password to authenticate yourself.

Don't forget your password.

The password is also used for logon to the network and other computers.

Old Password:

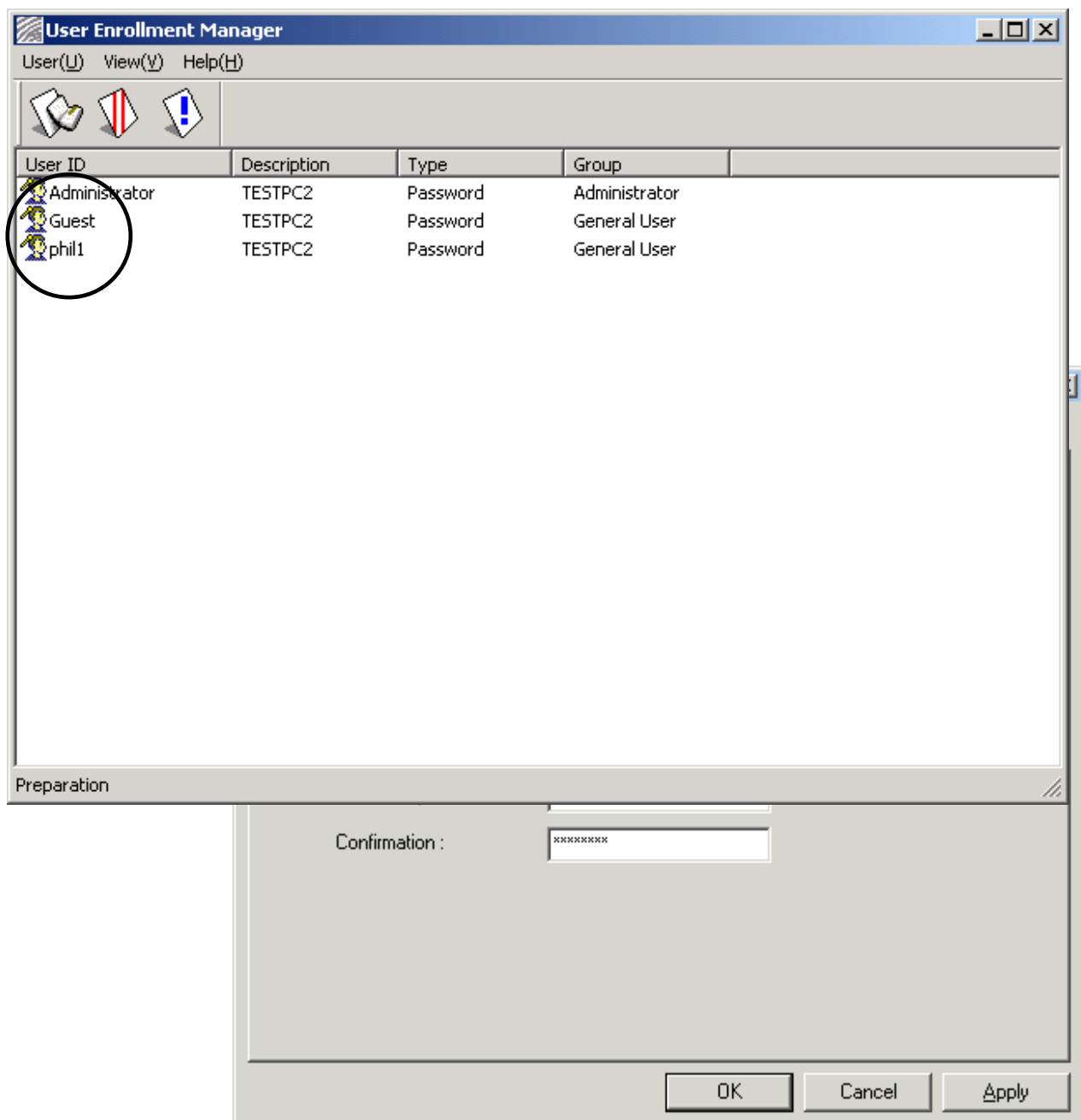
New Password:

Confirmation:

OK Cancel Apply



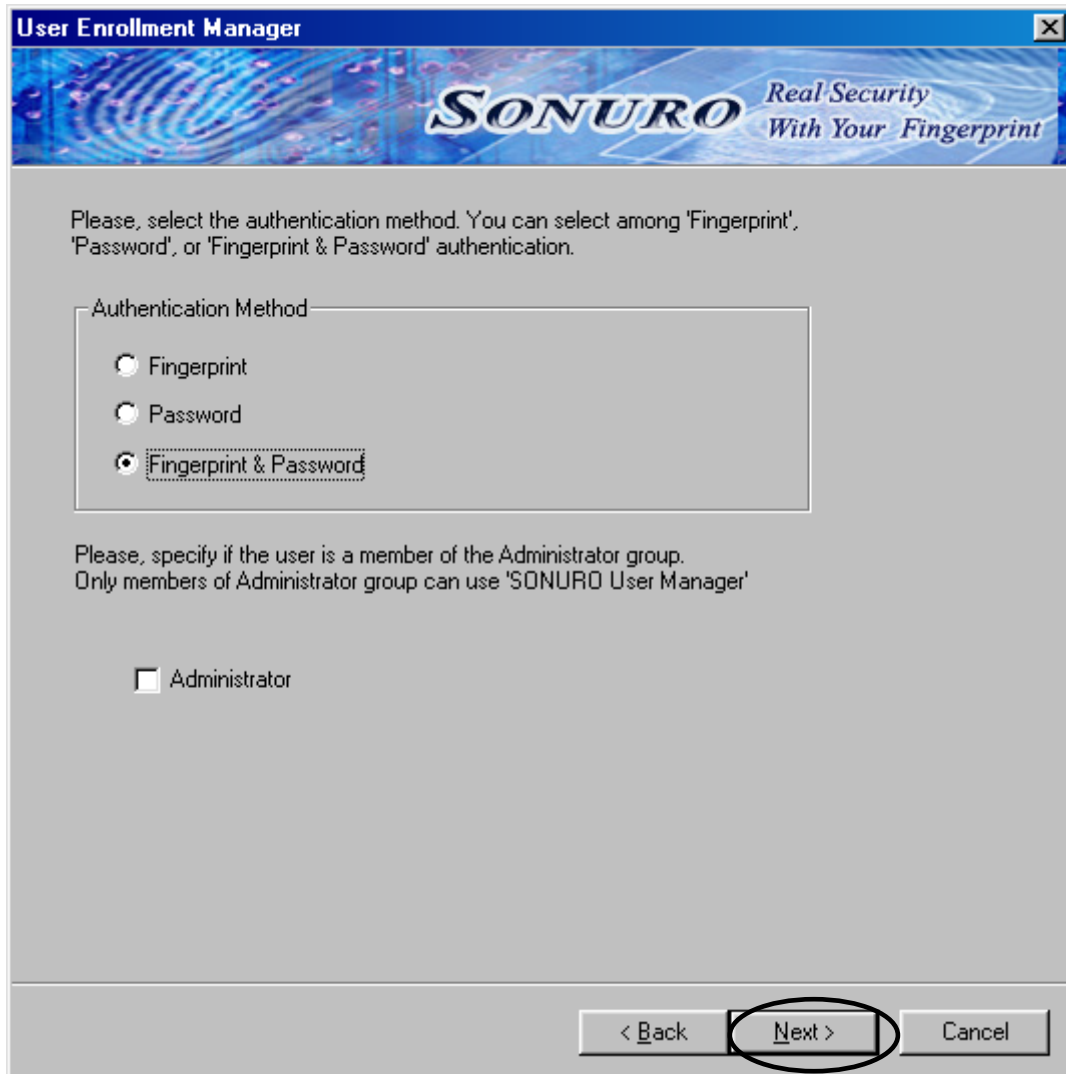
3. Press OK or Apply to apply the current Password. You can check that the icon for “administrator” has been changed.



## 2.3 Using Fingerprint + Password

### <Windows 98 User>

1. Select "Fingerprint & Password" among the authentication methods and press **Next>**.



The image shows a Windows-style dialog box titled "User Enrollment Manager". The title bar is blue with a close button (X) in the top right corner. Below the title bar is a decorative banner with a blue background and white text that reads "SONURO Real Security With Your Fingerprint". The main area of the dialog box is light gray. It contains the following text and controls:

Please, select the authentication method. You can select among 'Fingerprint', 'Password', or 'Fingerprint & Password' authentication.

Authentication Method

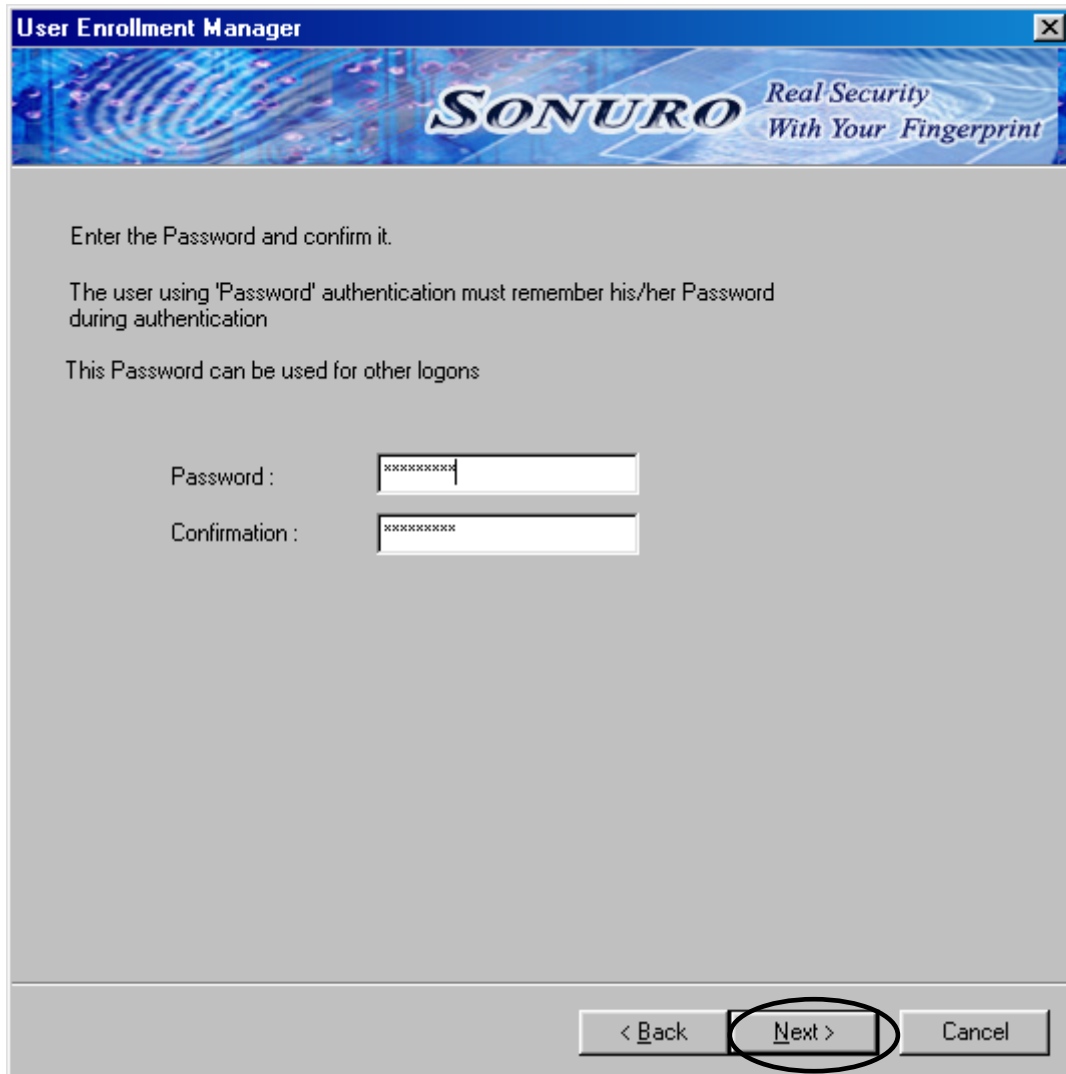
- ☐ Fingerprint
- ☐ Password
- ☒ Fingerprint & Password

Please, specify if the user is a member of the Administrator group.  
Only members of Administrator group can use 'SONURO User Manager'

☐ Administrator

At the bottom of the dialog box, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is circled with a black oval.

2. In the new window, input the password twice and press **Next>**.



The image shows a screenshot of a software window titled "User Enrollment Manager". The window has a blue header bar with the SONURO logo and the text "Real Security With Your Fingerprint". Below the header, the main area is gray and contains the following text: "Enter the Password and confirm it.", "The user using 'Password' authentication must remember his/her Password during authentication", and "This Password can be used for other logons". There are two input fields: "Password :" and "Confirmation :". Both fields contain "xxxxxxx" and have a cursor at the end. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is circled in black.

User Enrollment Manager

**SONURO** *Real Security  
With Your Fingerprint*

Enter the Password and confirm it.

The user using 'Password' authentication must remember his/her Password during authentication

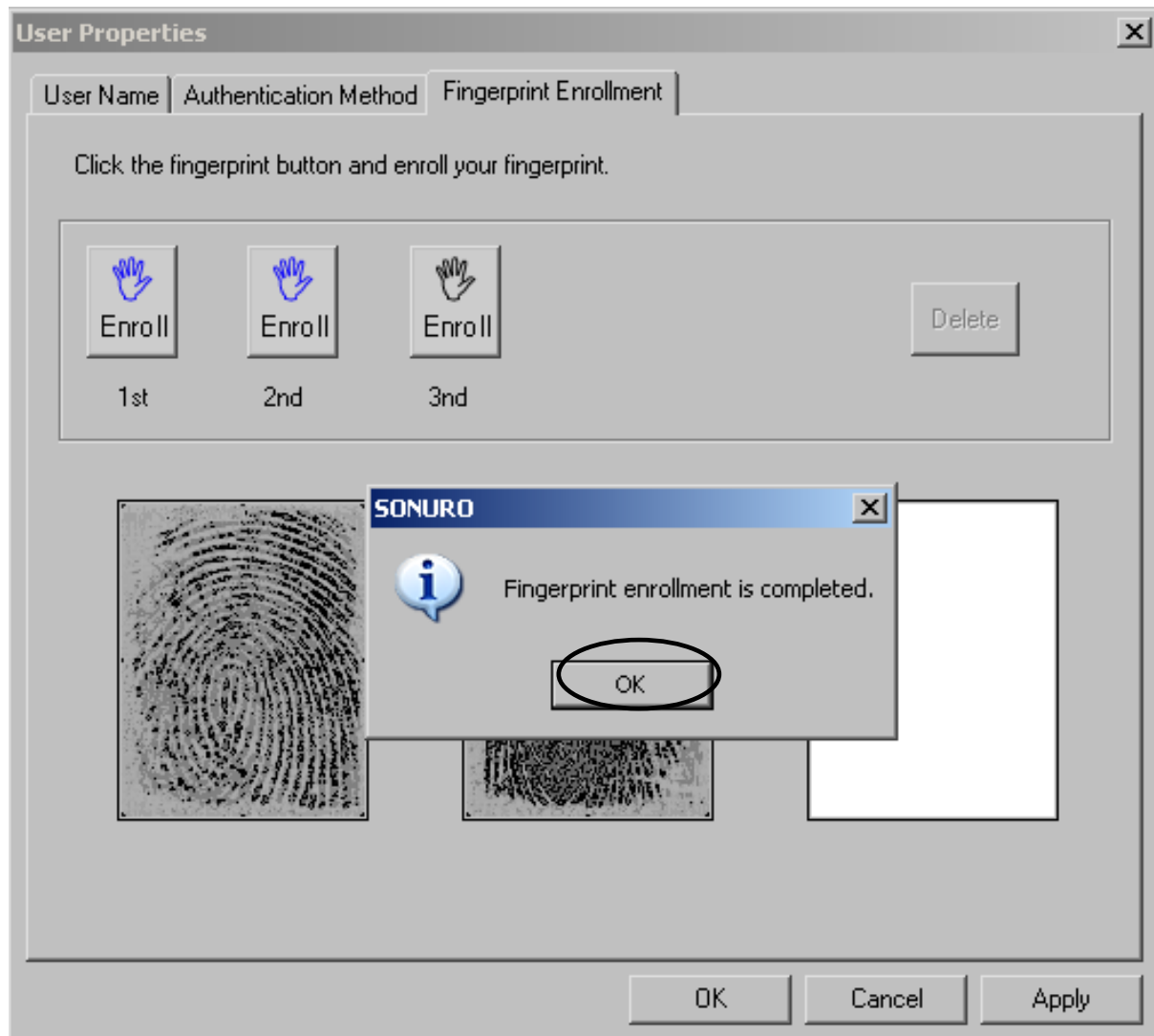
This Password can be used for other logons

Password :

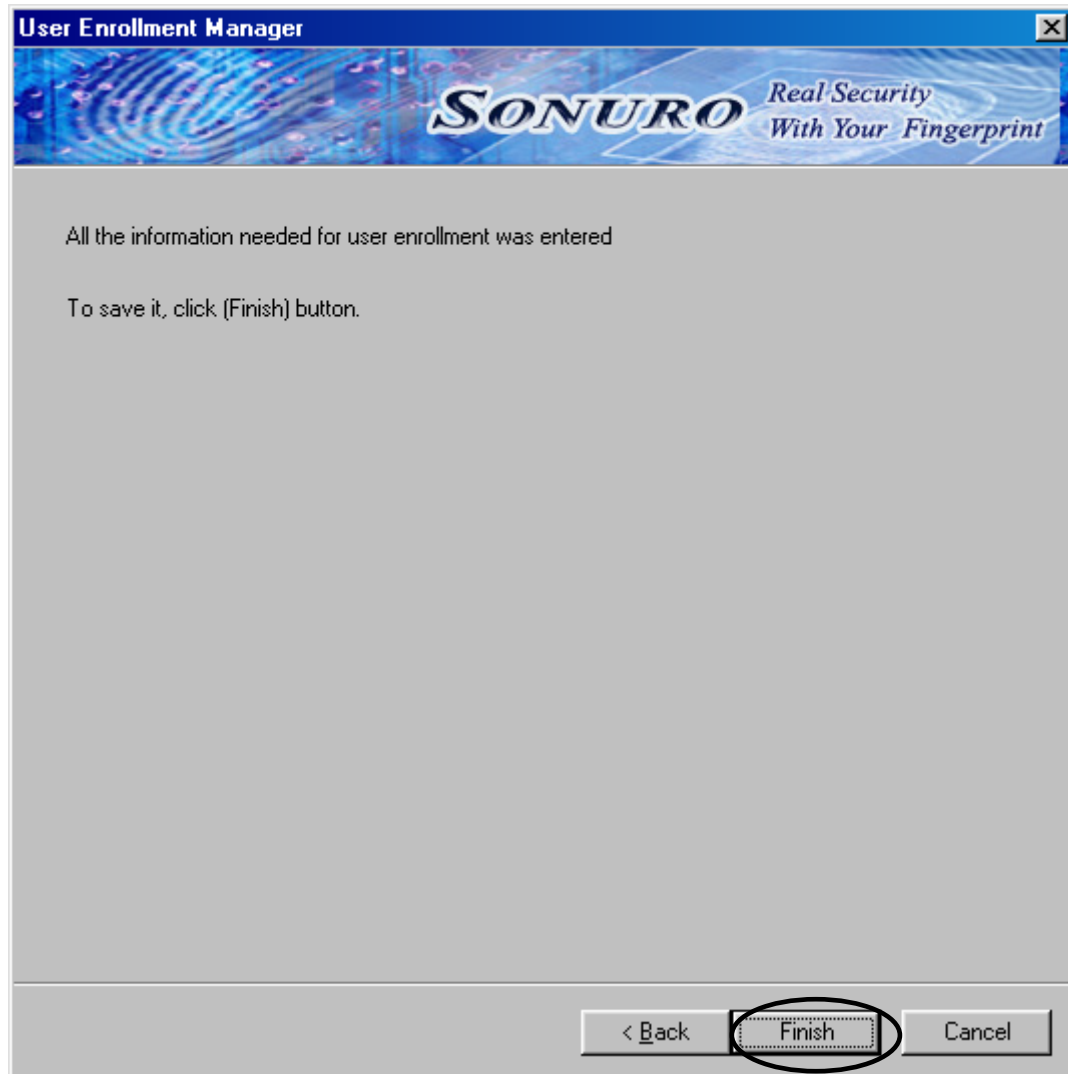
Confirmation :

< Back **Next >** Cancel

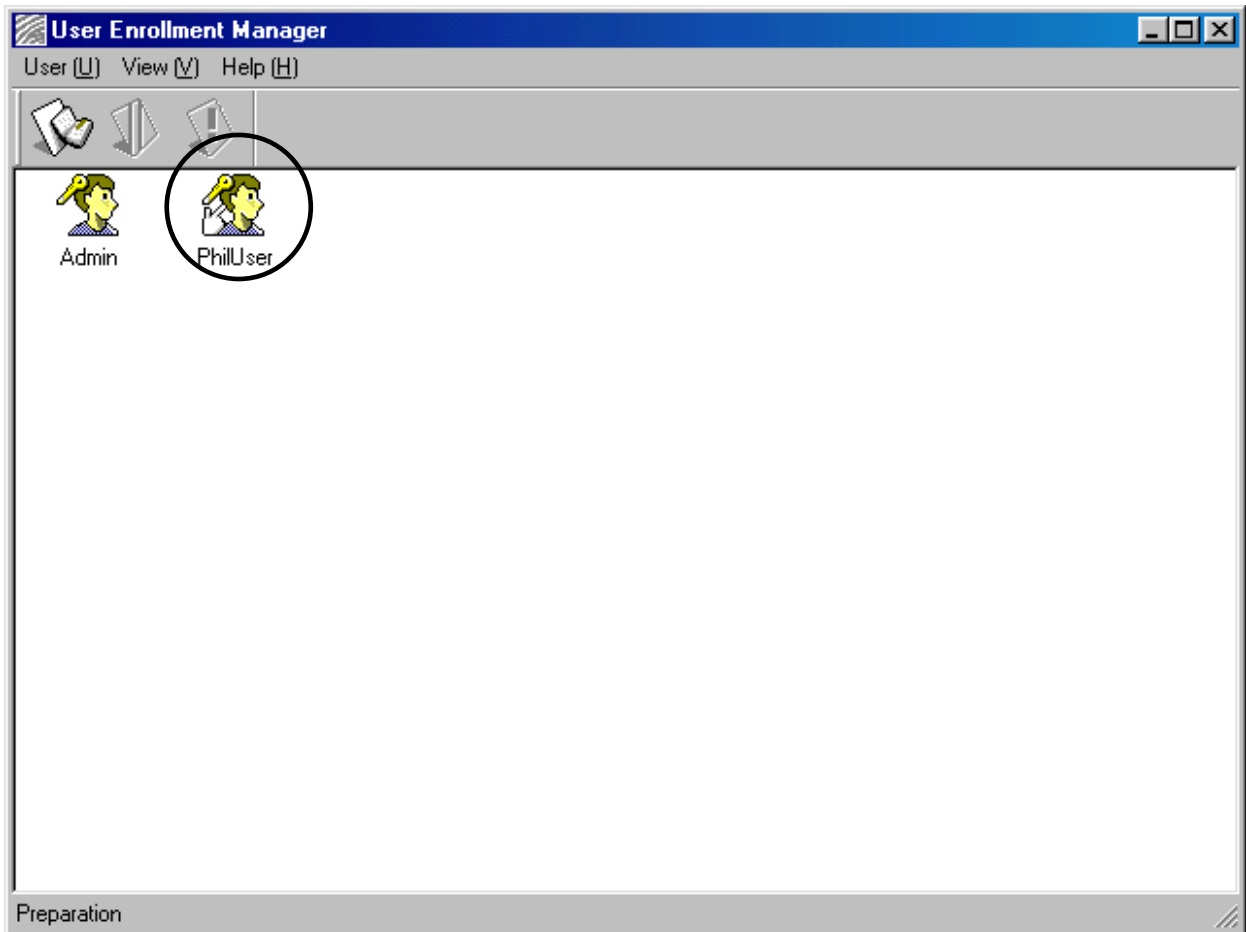
3. A window for fingerprint registration. Follow the same steps as in "Using Fingerprint" to register fingerprints. After this process is completed, press **Next>**.



4. A message box will appear to let you know that the registration is completed. Press **Finish** and the whole registration process will be completed.

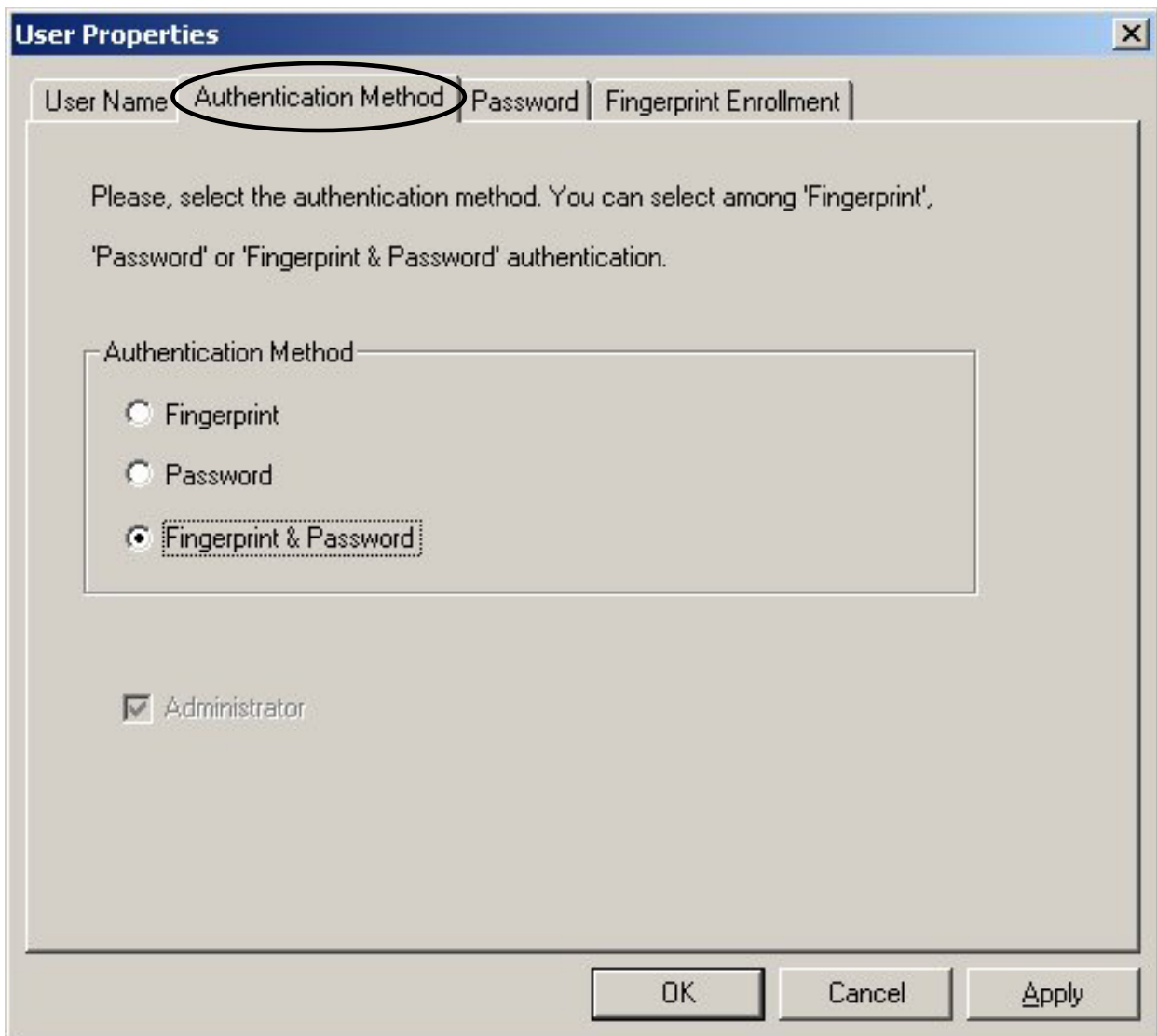


5. You can check that the new user has been registered successfully from the icon with both a finger and a key in the User Manager.



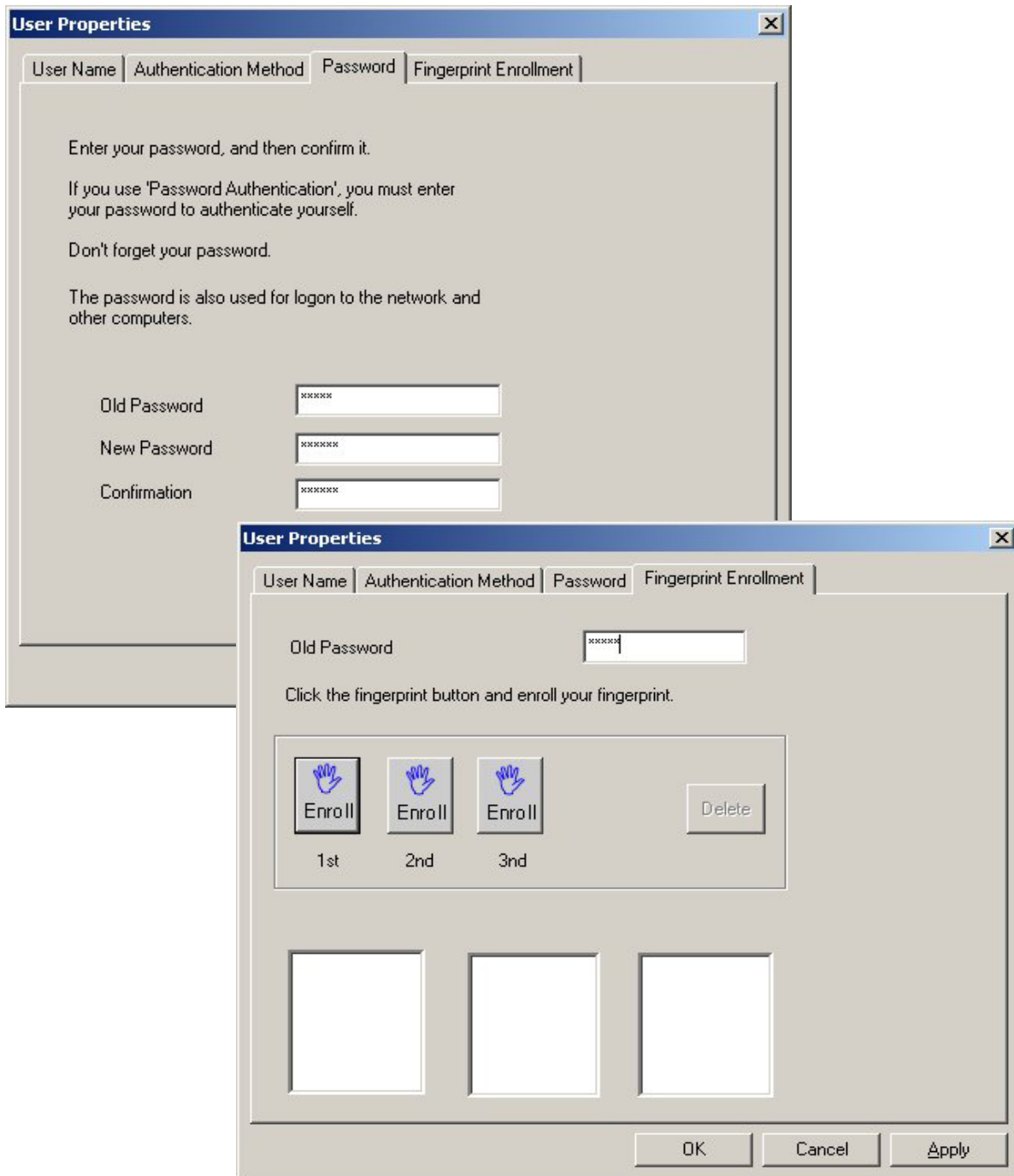
<Windows 2000 User>

1. Double-click on “phil1” in the window **User Manager** and select “Fingerprint&Password” among the authentication methods. Then both of the tabs “Fingerprint Enrollment” and “Password input” will be activated.

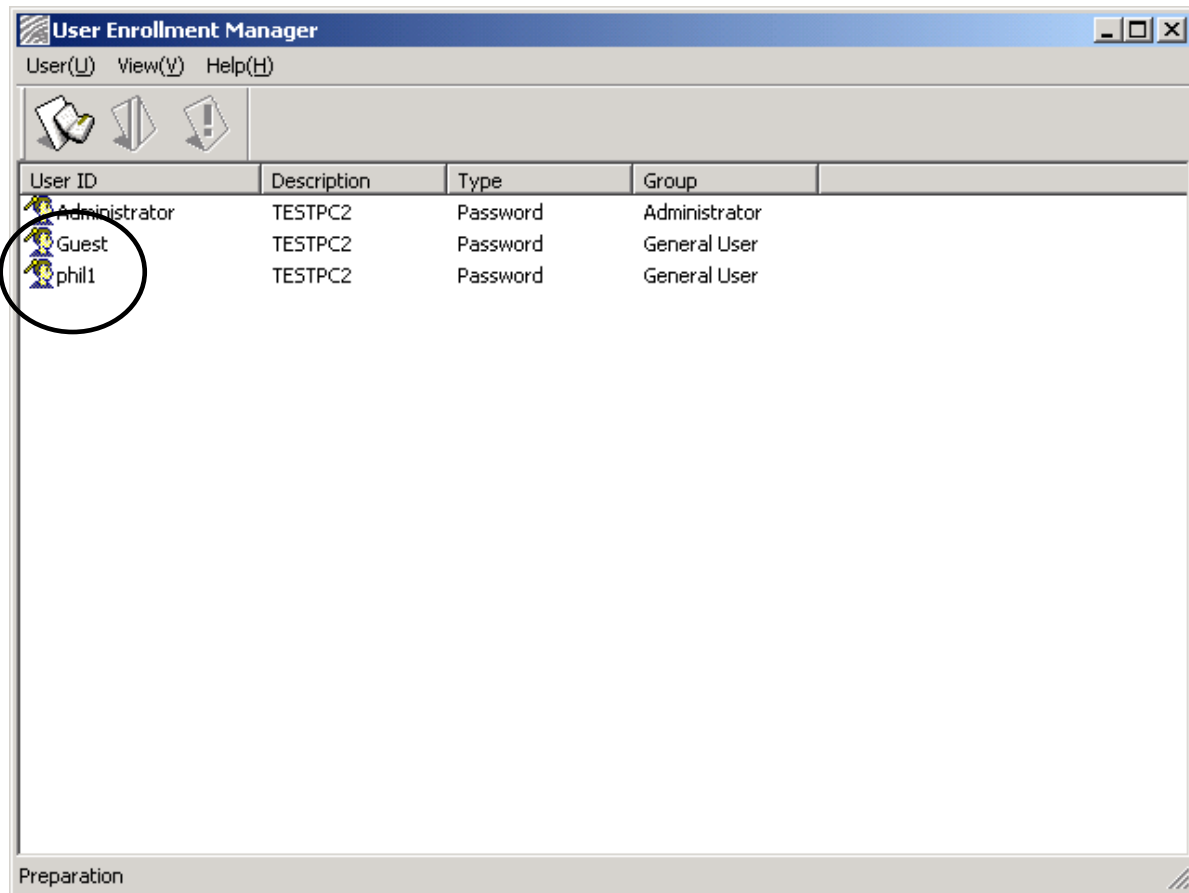


2. Register the fingerprint(s) using the tab “Fingerprint Enrollment” and specify the password using the tab “Password input”.





3. Press OK or Apply to apply the fingerprint data and Password. You can check that the icon for “phil1” has been changed.

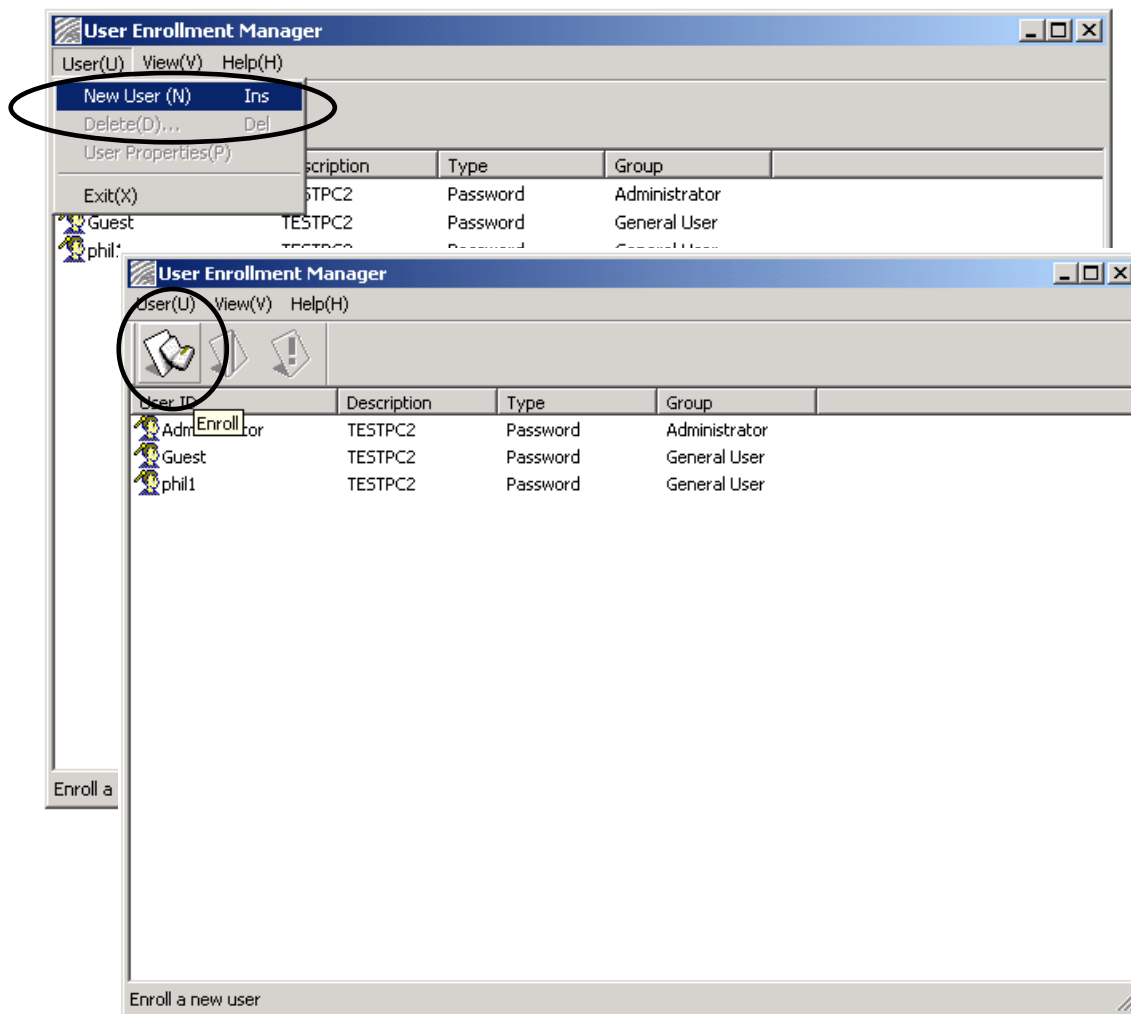


The image shows a screenshot of a software window titled "User Enrollment Manager". The window has a menu bar with "User(U)", "View(V)", and "Help(H)". Below the menu bar is a toolbar with three icons: a folder, a document, and a warning sign. The main area of the window contains a table with four columns: "User ID", "Description", "Type", and "Group". The table lists three users: "Administrator", "Guest", and "phil1". The "Guest" user is circled in black. The status bar at the bottom of the window displays the word "Preparation".

User ID	Description	Type	Group
Administrator	TESTPC2	Password	Administrator
Guest	TESTPC2	Password	General User
phil1	TESTPC2	Password	General User

### 3. User Registration

1. Select User->User Enrollment in the Tool Bar or press the indicated icon in the Tool Bar.



2. In the new window, enter the ID and description (if needed) of the new user. Press **Next>**.



The image shows a screenshot of a software window titled "User Enrollment Manager". The window has a blue header bar with the SONURO logo and the text "Real Security With Your Fingerprint". Below the header, there is a light gray background with the instruction "Please, enter the user name and description for user logon". There are two input fields: "ID" and "Description", both containing the text "test". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is circled in black.

User Enrollment Manager

**SONURO** *Real Security  
With Your Fingerprint*

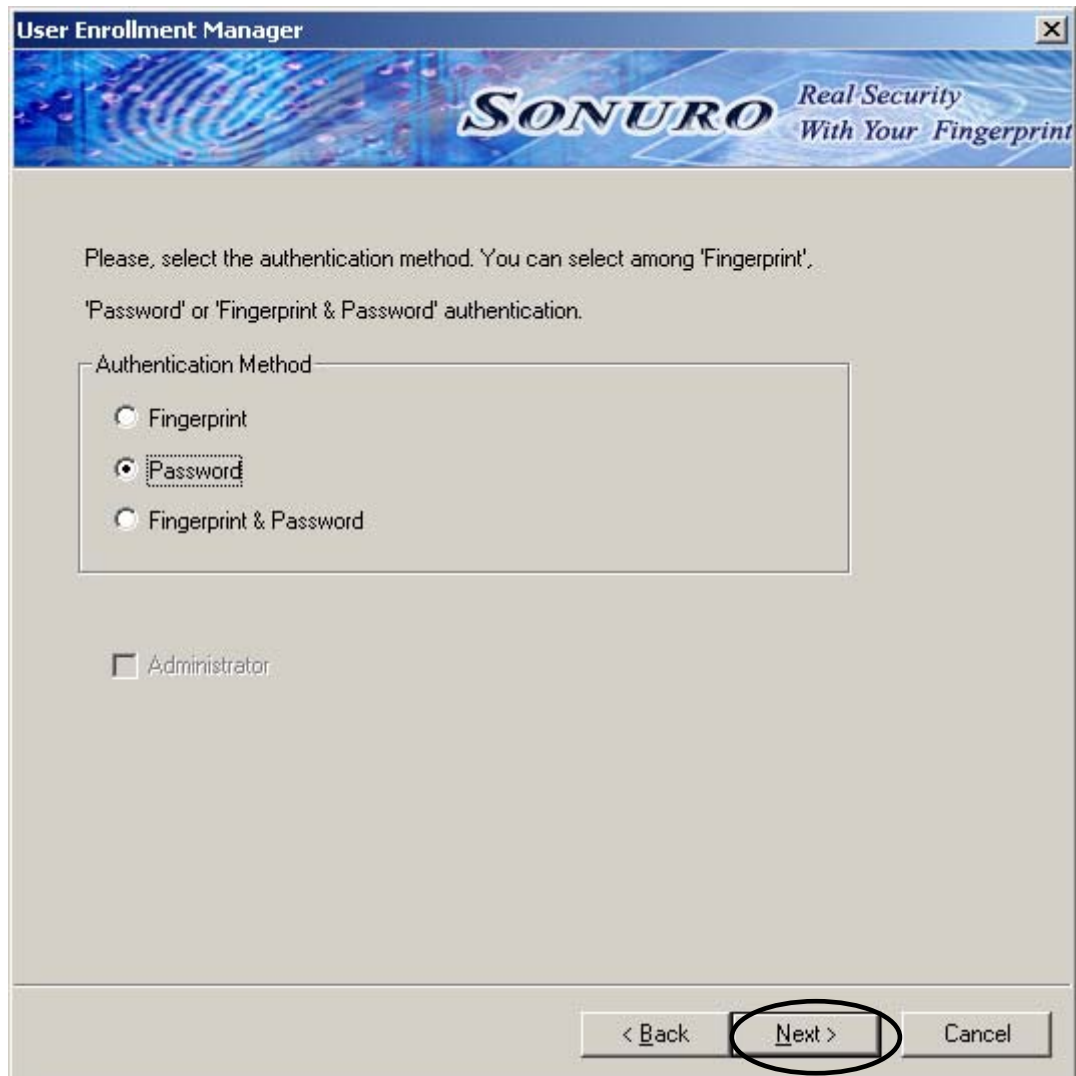
Please, enter the user name and description for user logon

ID

Description

< Back **Next >** Cancel

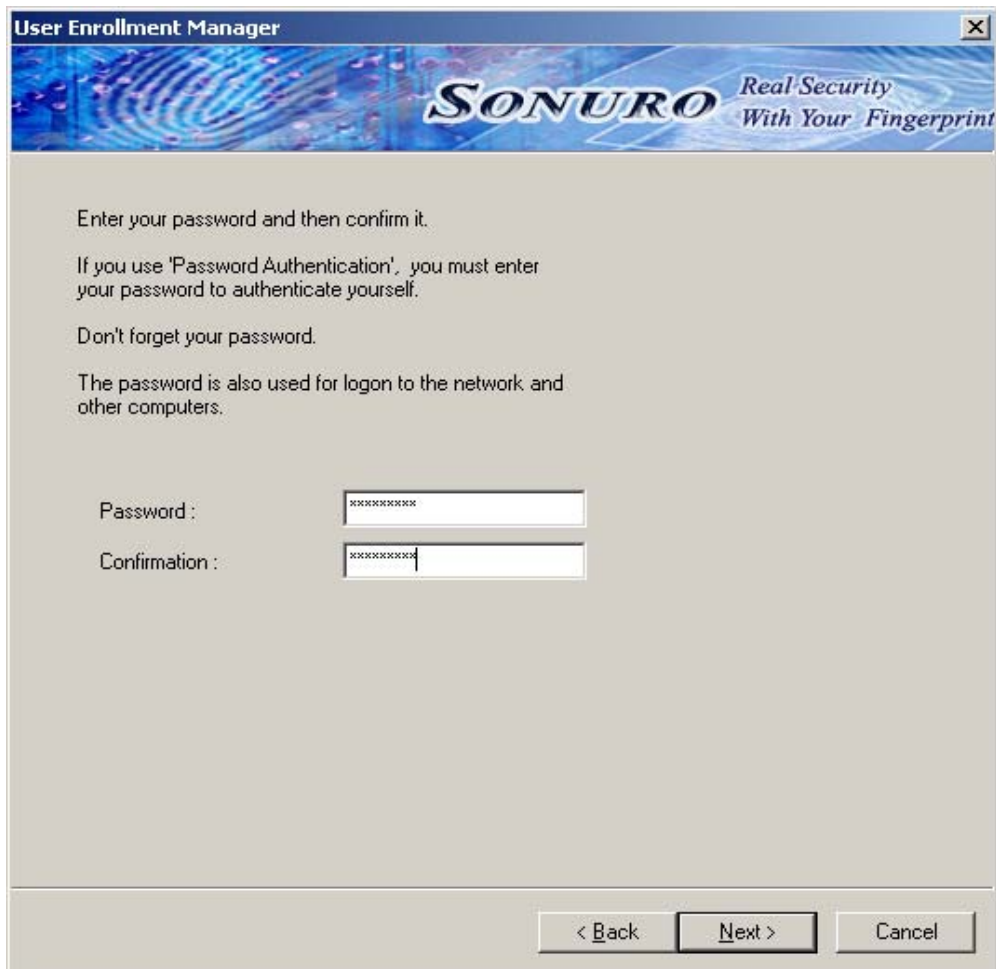
3. In the new window, select the authentication method of the new user. Press **Next>**. Further steps varies according to the authentication method.



## ◆ Using Fingerprint

1. After selecting Fingerprint among the authentication methods, press **Next>**. A new

window for Password input will appear. Users authenticated by Fingerprints only are also required to enter a new Password. But these users will use SONURO only with fingerprints afterwards. After Password input, press **Next>**.

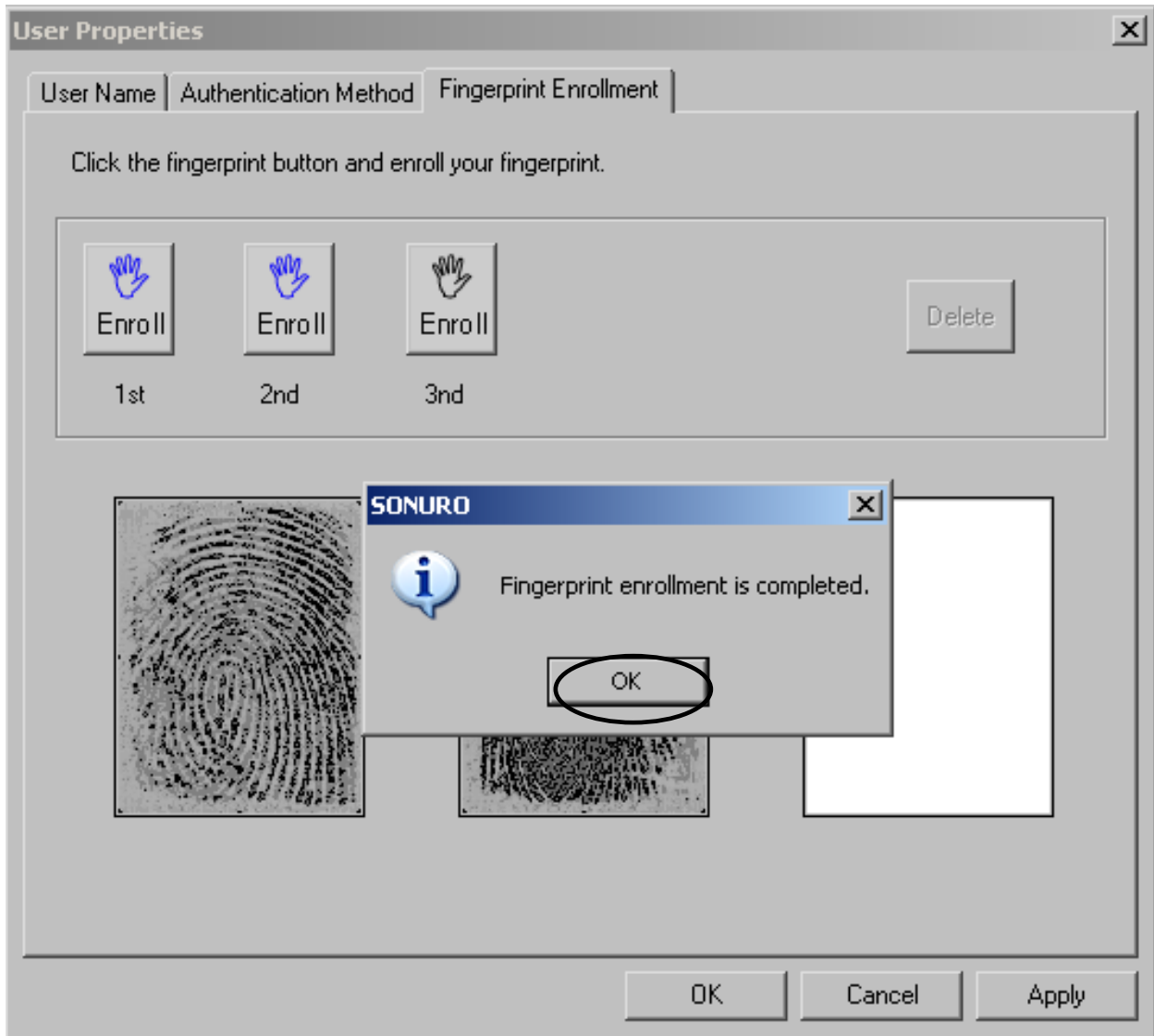


The image shows a Windows-style dialog box titled "User Enrollment Manager". The title bar has a close button (X) on the right. Below the title bar is a decorative header with a blue background featuring a fingerprint pattern. The word "SONURO" is prominently displayed in a stylized font, followed by the tagline "Real Security With Your Fingerprint" in a smaller, italicized font. The main area of the window has a light beige background and contains the following text: "Enter your password and then confirm it.", "If you use 'Password Authentication', you must enter your password to authenticate yourself.", "Don't forget your password.", and "The password is also used for logon to the network and other computers." Below this text are two input fields. The first is labeled "Password :" and the second is labeled "Confirmation :". Both fields contain a series of "x" characters, indicating masked input. At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

**CAUTION**

If you don't change the Password when deleting SONURO, it will be used for Windows Logon after deletion .Be sure to remember the Password in that case.

2. A new window for fingerprint enrollment will appear. You can register fingerprints following the steps explained before.



## ◆ Using Password

After selecting “Password” among the authentication methods, press **Next>**. You can input the Password following the steps explained before.



The image shows a Windows-style dialog box titled "User Enrollment Manager". The title bar includes a close button (X). The dialog has a decorative header with a blue background showing fingerprint patterns, the "SONURO" logo, and the text "Real Security With Your Fingerprint". The main area is light gray and contains the following text:

Enter your password and then confirm it.

If you use 'Password Authentication', you must enter your password to authenticate yourself.

Don't forget your password.

The password is also used for logon to the network and other computers.

Below the text are two input fields:

Password :

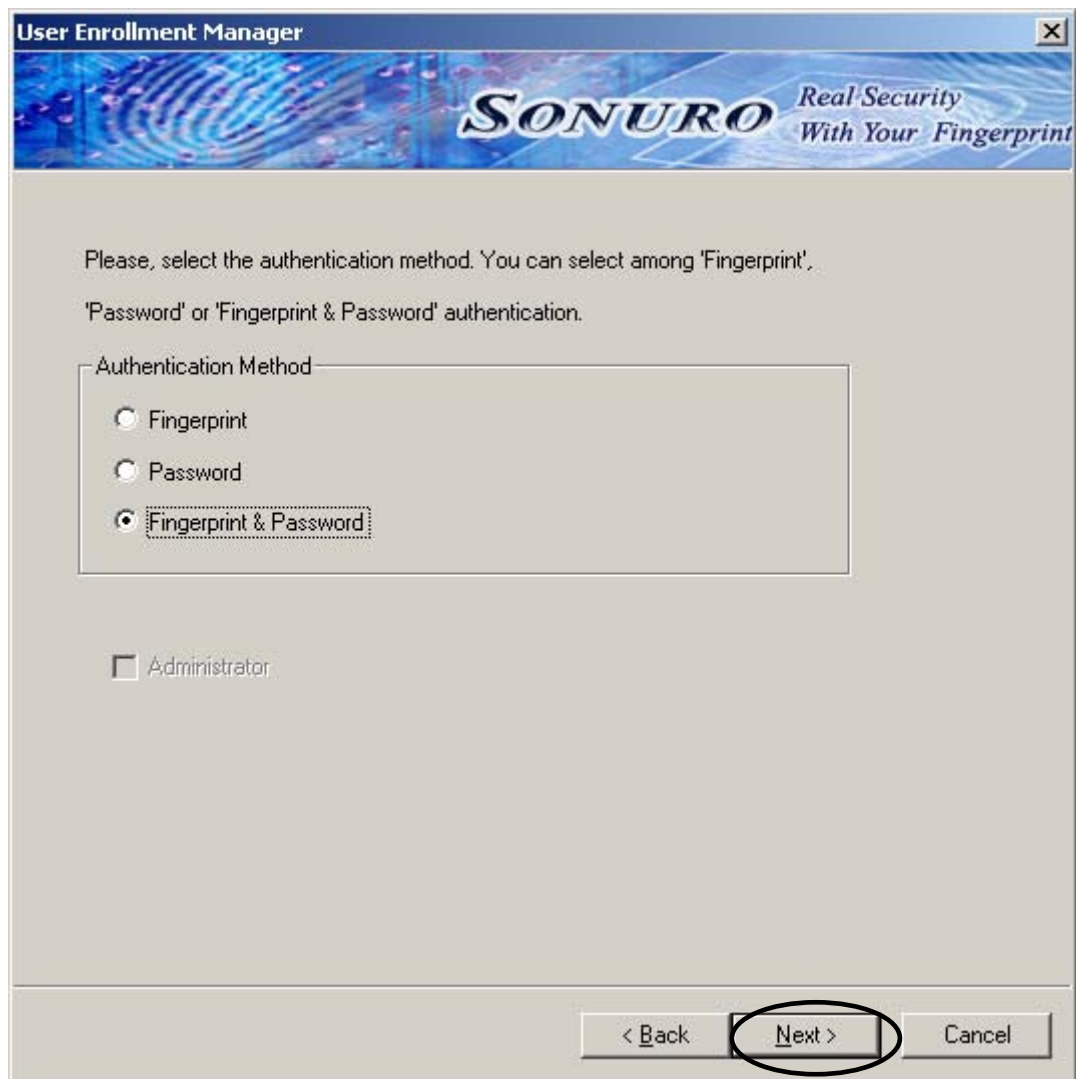
Confirmation :

At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

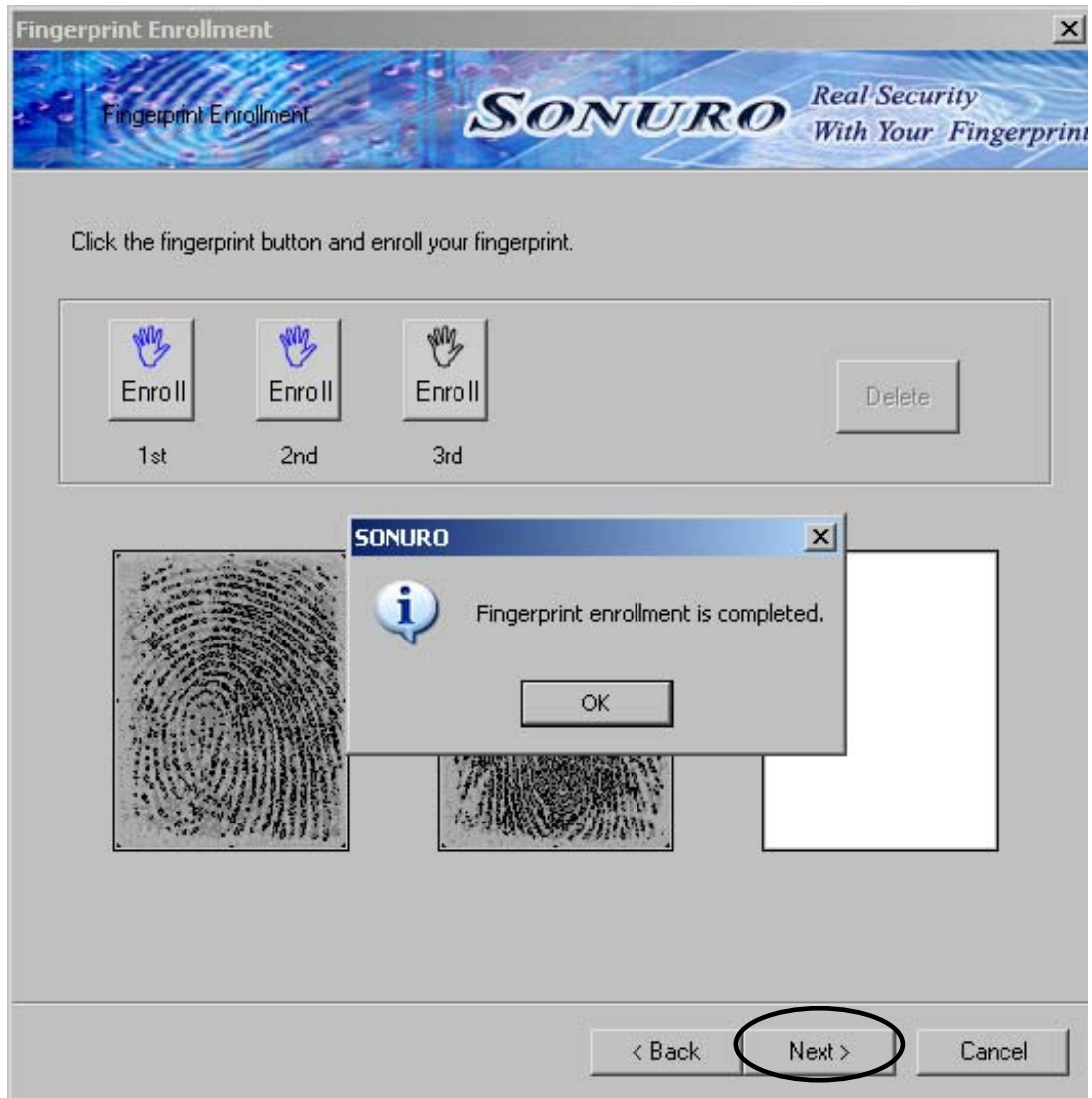
## ◆ Using Fingerprint + Password



1. After selecting “Fingerprint & Password” among the authentication methods, press Next>. Enter the Password twice and press **Next>**.

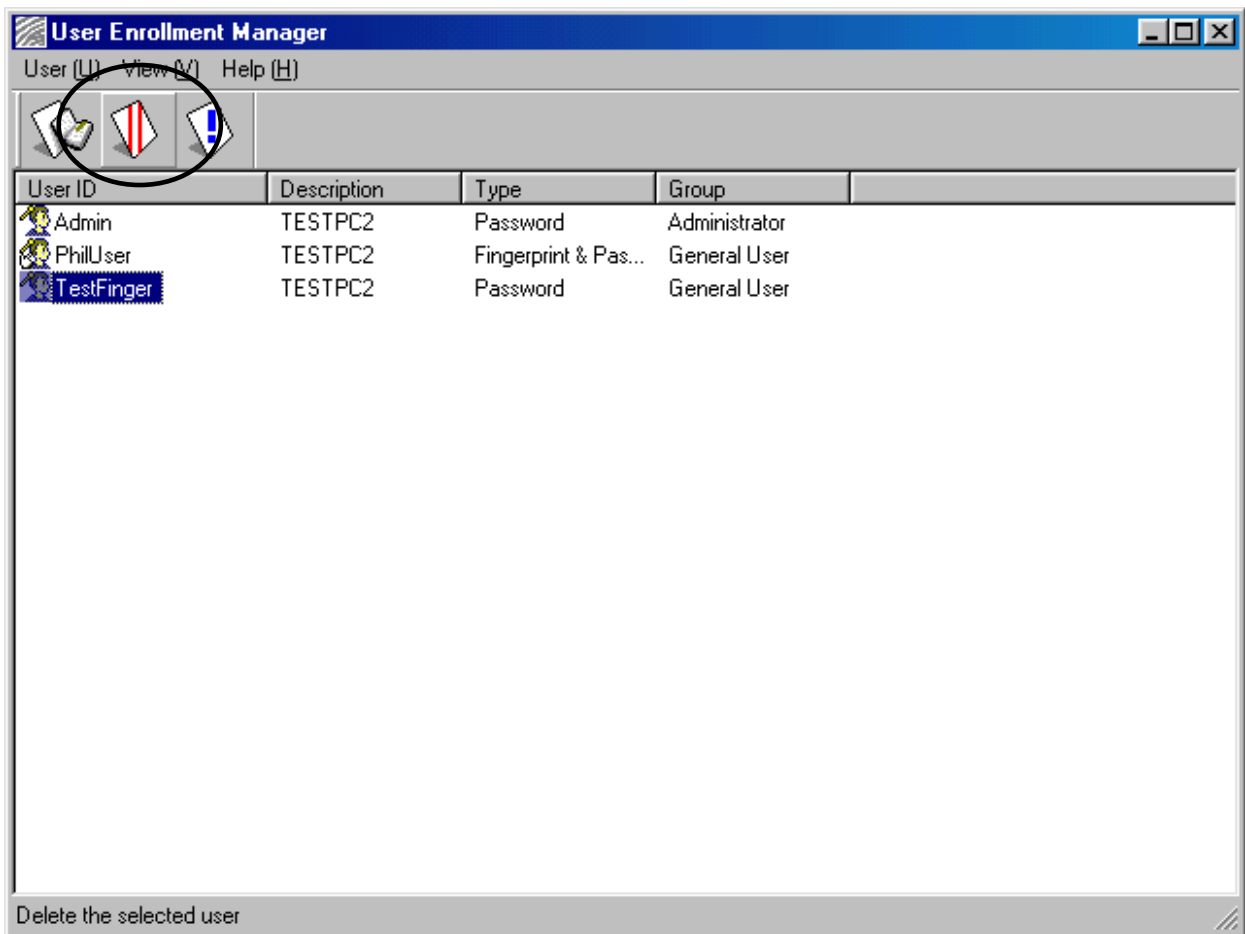


3. A new window for fingerprint enrollment will appear. You can register fingerprints following the steps as explained before.

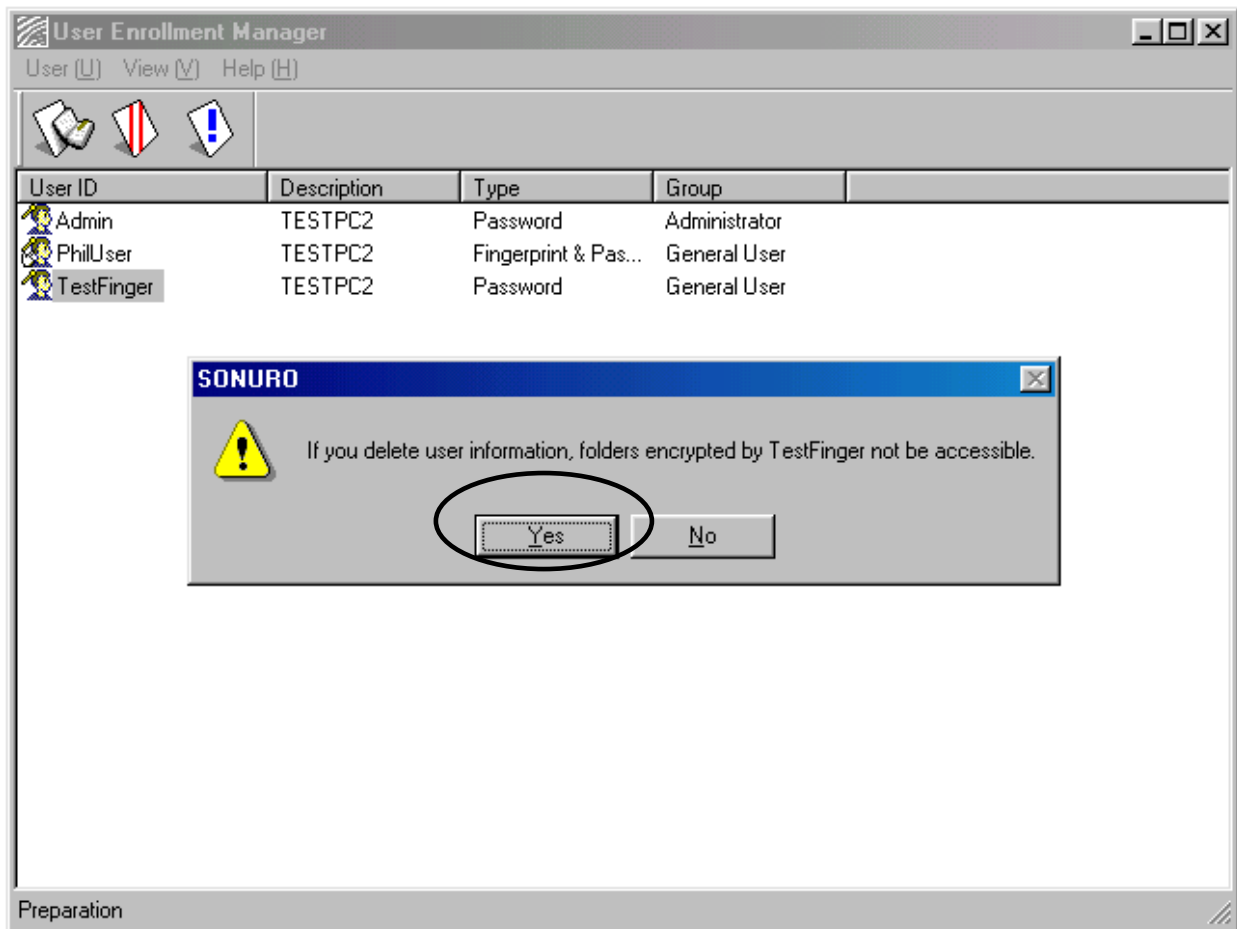


## 4. User Deletion

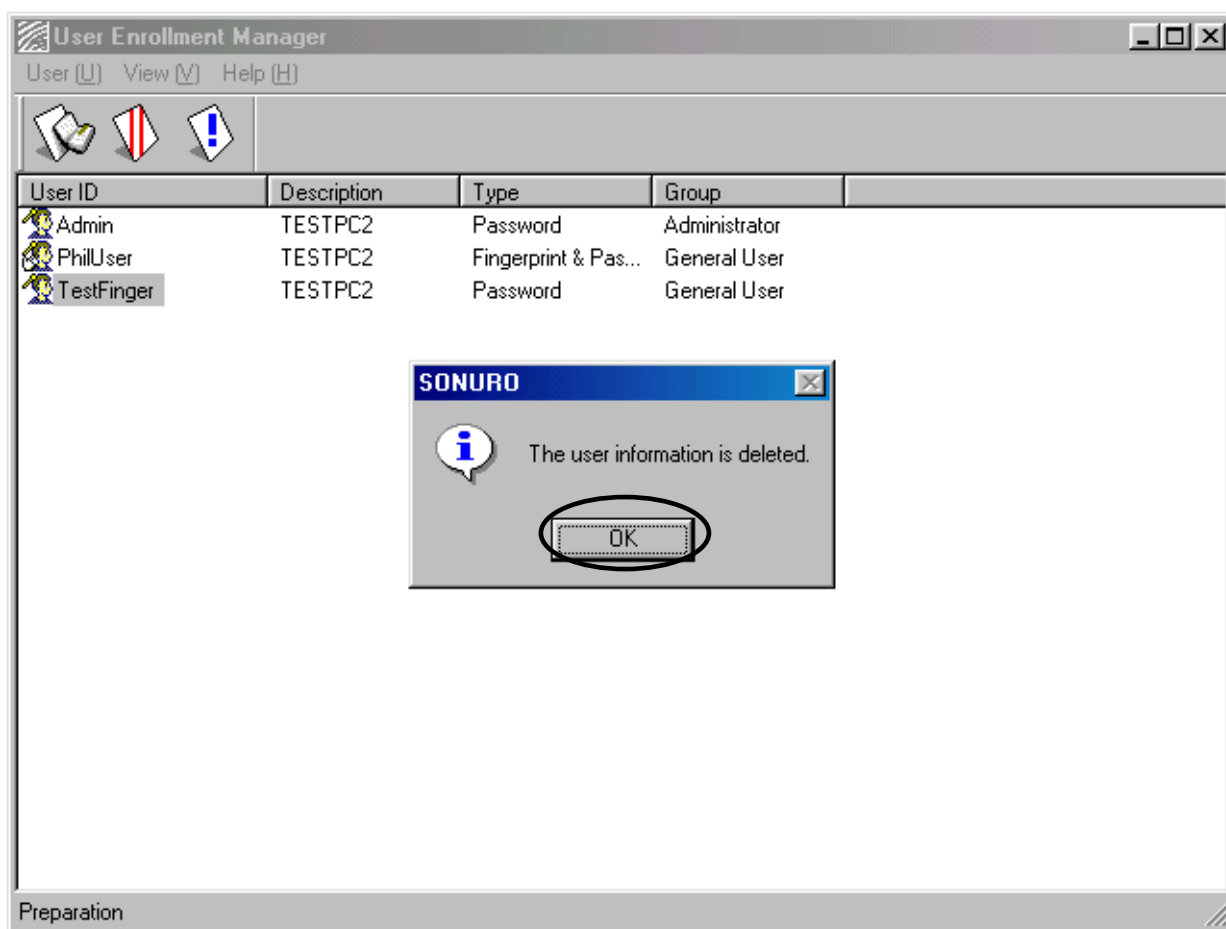
1. If you want to delete the information of a registered user, select the user to be deleted and select User->Delete or press the 2<sup>nd</sup> button in the Toolbar.



2. In the dialogue box for confirmation, press **Yes** to delete the selected user.



3. You will be informed that the selected user is deleted. Press **OK**.



## Chapter 5 Secure Log-on

Below you can see a log-on for window system. The users can log-on to the system according to his/her authority and authentication method. If the authentication method of the user is "Password", he/she can log-on by entering the correct password. If the authentication method is "Fingerprint", he/she can log-on by inputting his/her fingerprint. If the authentication method is "Fingerprint + Password", he/she can log-on by inputting

the fingerprint and then entering the password.

If the system is connected to a domain server, a user registered in the domain server can also log-on to the system. Select the domain name of the server and enter the ID and password to log-on to the system.

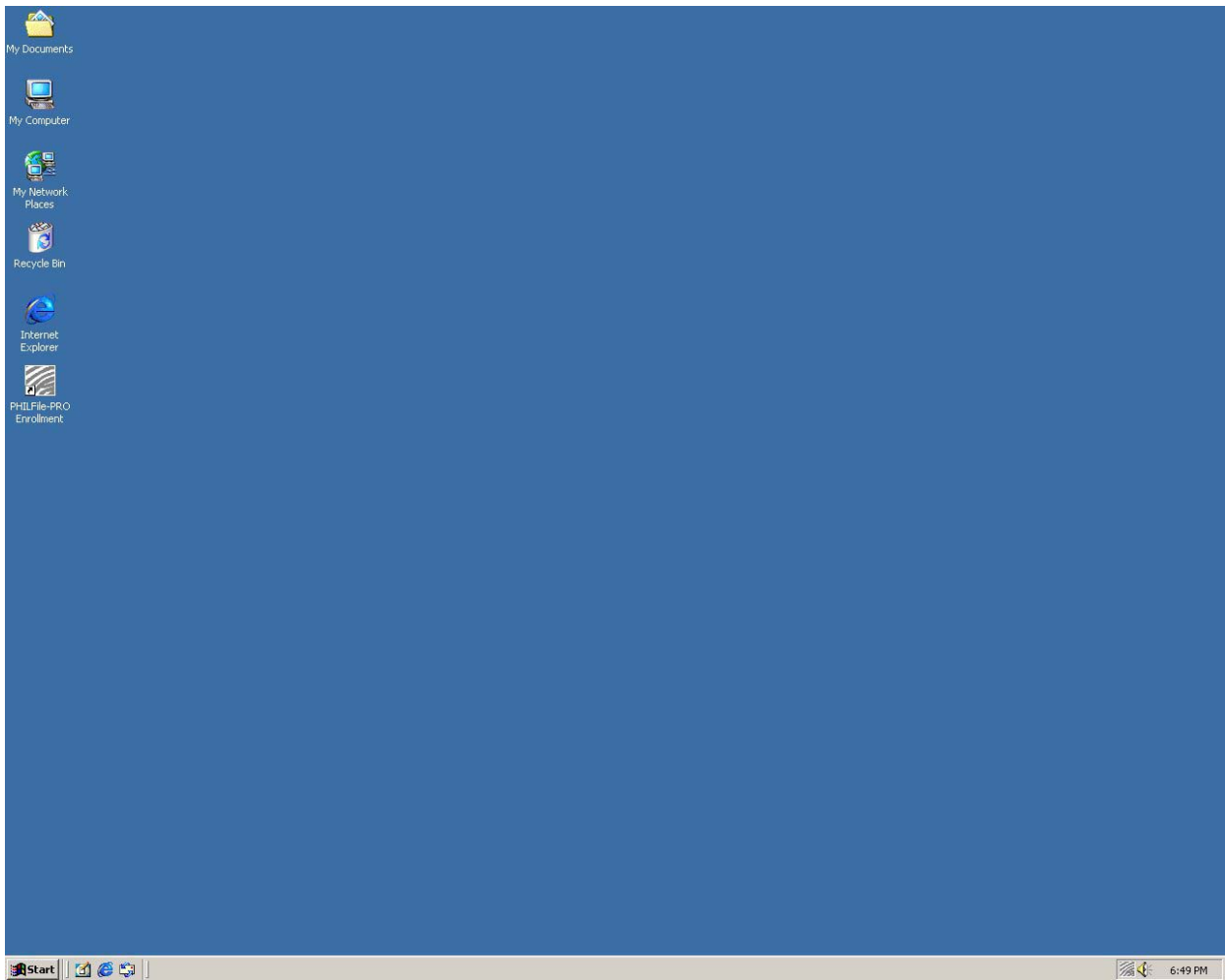


The image shows the SONURO login interface. At the top, there is a banner with the SONURO logo and the text "Real Security With Your Fingerprint". Below the banner, there are three input fields: "Domain Server(D)" with a dropdown menu showing "TESTPC1", "User ID(U)" with the text "Admin", and "Password(P)" with masked characters "\*\*\*\*\*". To the right of these fields is a large empty rectangular box, likely for a fingerprint scan. Below the input fields, there is a prompt: "Enter the password and press 'Enter'."

**NOTE : Windows 98**

A user registered in a Domain Server cannot use SONURO in the system because he/she is not registered as a SONURO user. Thus if you are a user registered in a Domain Server and you want to use SONURO, please register as a new SONURO user in the system. Note, however, that a user in the group Domain Admins can use SONURO in the system. Also note that ID of the current system is considered different from one registered in the Domain server even if they look the same.

When the fingerprint or/and Password is/are correct, you can log-on to the system and use it.





# Chapter 6 File Encryption & Decryption

## 1. File Encryption

## 2. File Decryption

**CAUTION**

We are not responsible for damages caused by OS or H/W.

## 1. File Encryption

For security purposes, files can be encrypted and decrypted using cryptographic

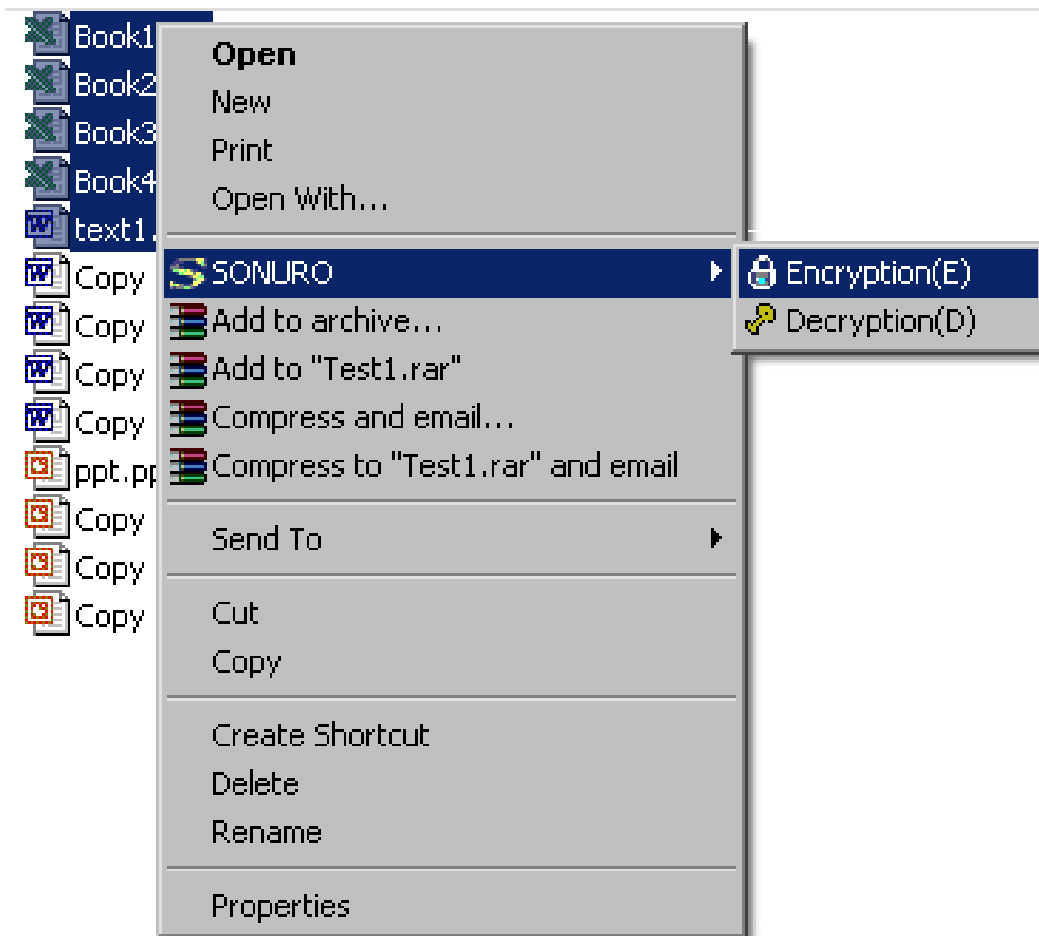


algorithms.

**NOTE**

SONURO supports file encryption and decryption. When a folder is encrypted, it is not that the folder itself is encrypted, but that all the files in the folder are encrypted. The same is when a folder is decrypted. This is for the obvious purpose of maintaining both encrypted and not-encrypted files in a folder.

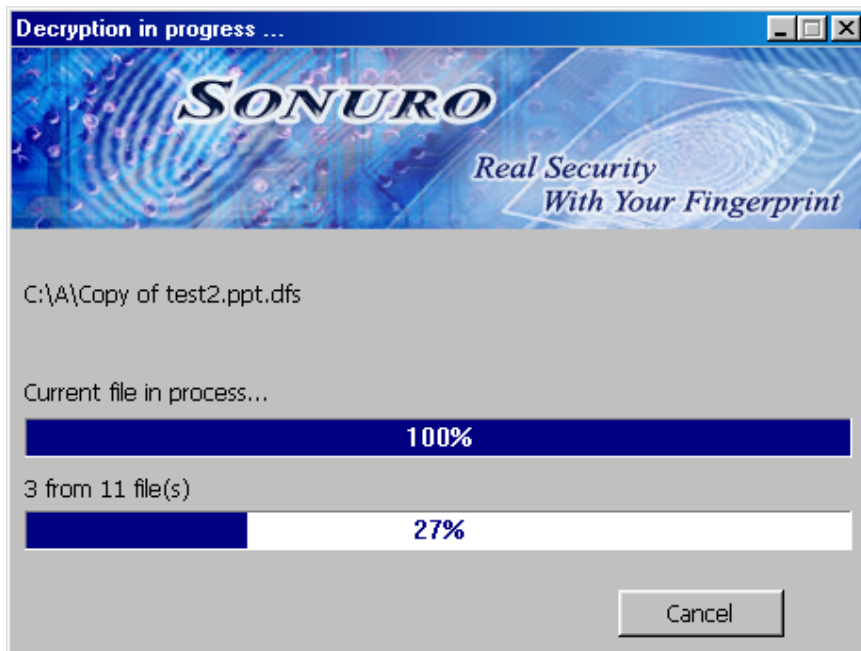
1. You can encrypt a file using fingerprint or Password. Select the file to be encrypted, click on the right mouse button and select SONURO -> Encryption(E). You can select multiple files for encryption



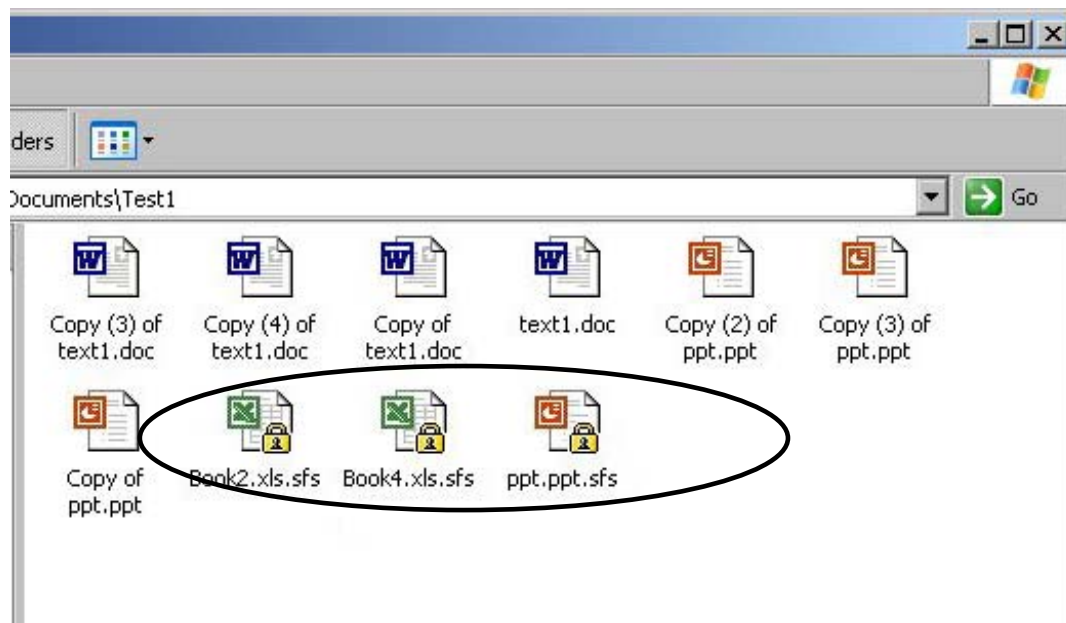
2. A new window will appear for authentication. The authentication process varies according to the authentication method of the user. For example, if the authentication method is "Password", input the Password.



3. You will see the encryption process and when the process is successfully completed, you will be informed of that in a new window.



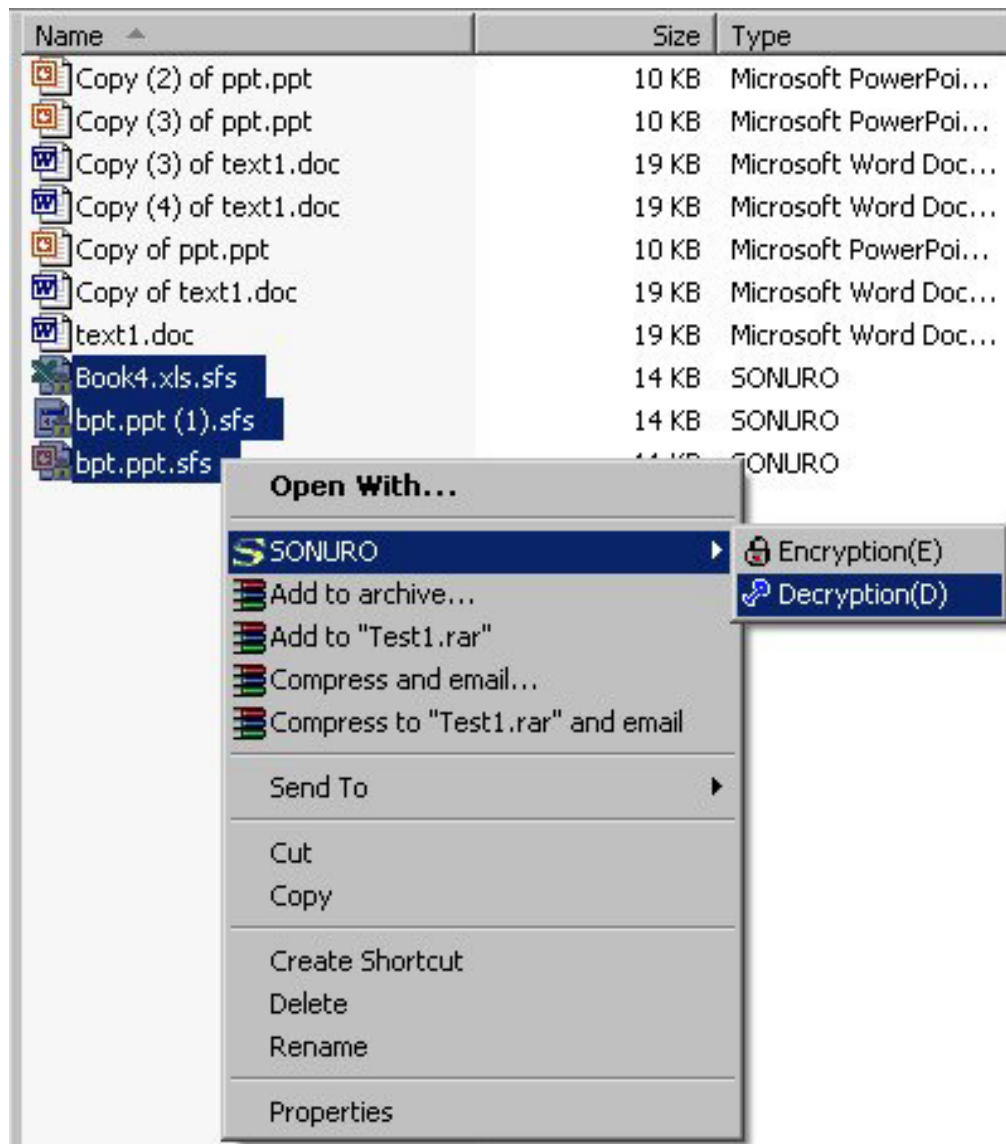
4. In Windows Explorer, a file encrypted using secret Key algorithm will have the added name extension **.sfs** and the associated icon will appear. If you check these changes, you can be sure that the encryption has been performed successfully.



## 2. File Decryption

1. An encrypted file cannot be understood without decryption. Decryption is performed

by the authentication used in encryption. To decrypt an encrypted file, first select the file to be decrypted, click the right mouse button, and select SONURO -> Decryption(D).

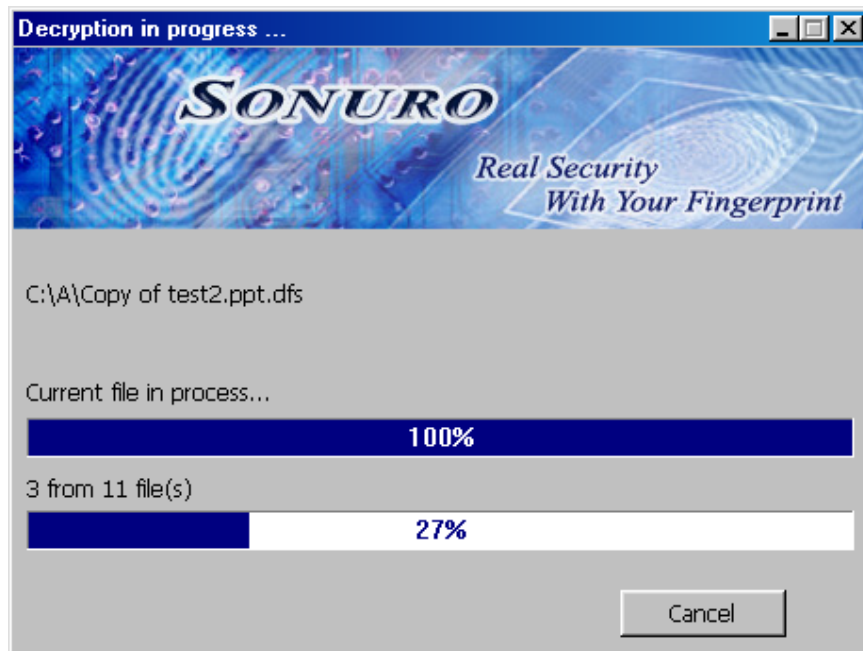


2. A new window will appear for authentication. The authentication process varies according to the authentication method of the user. For example, if the authentication method is "Password", input the Password.

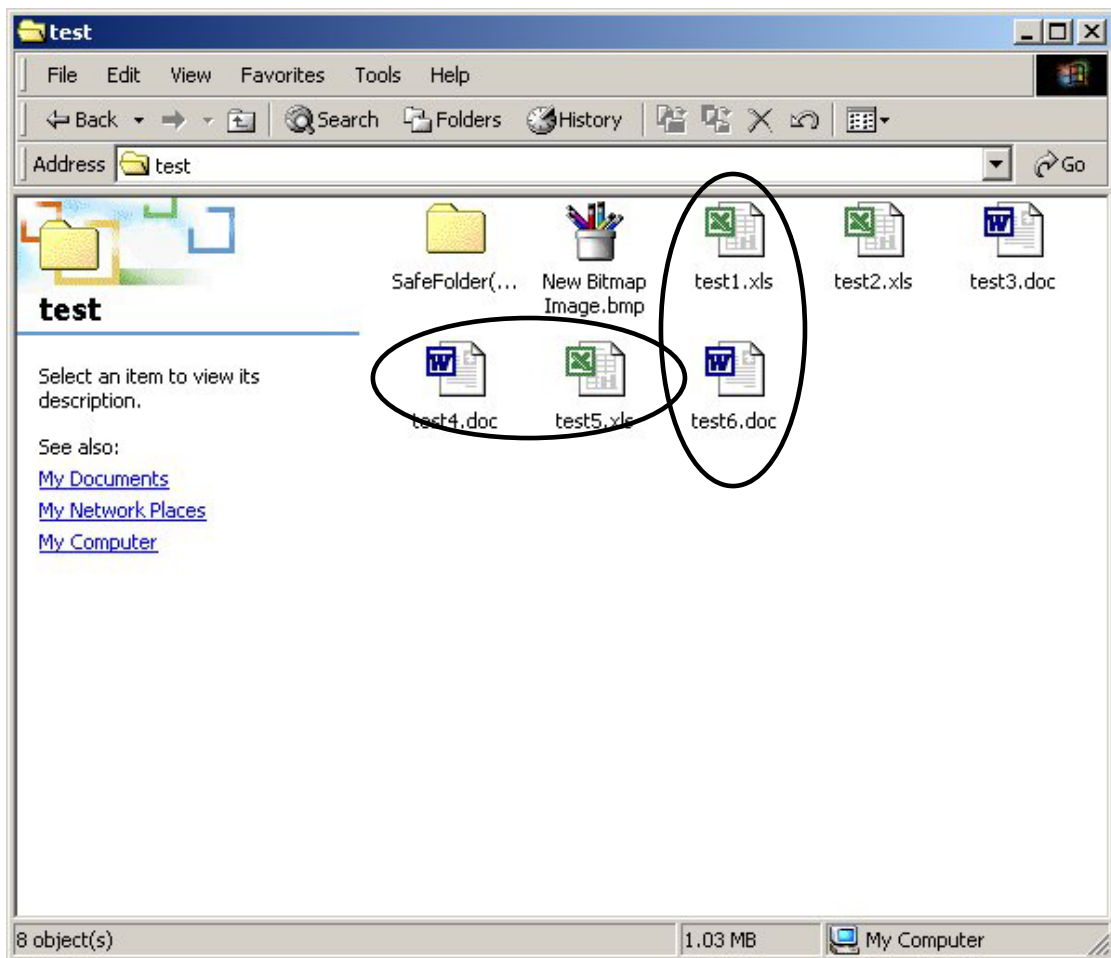


3. You will see the decryption process and when the process is successfully completed, you will be informed of that in a new window.





4. In Windows Explorer, a decrypted file will appear with its original form(original name and original icon). If you check these changes, you can be sure that the decryption has been performed successfully.



## **Chapter 7    Screen Saver**

In Windows System, SONURO runs the screen saver for the purpose of data security when the user is absent for a while.

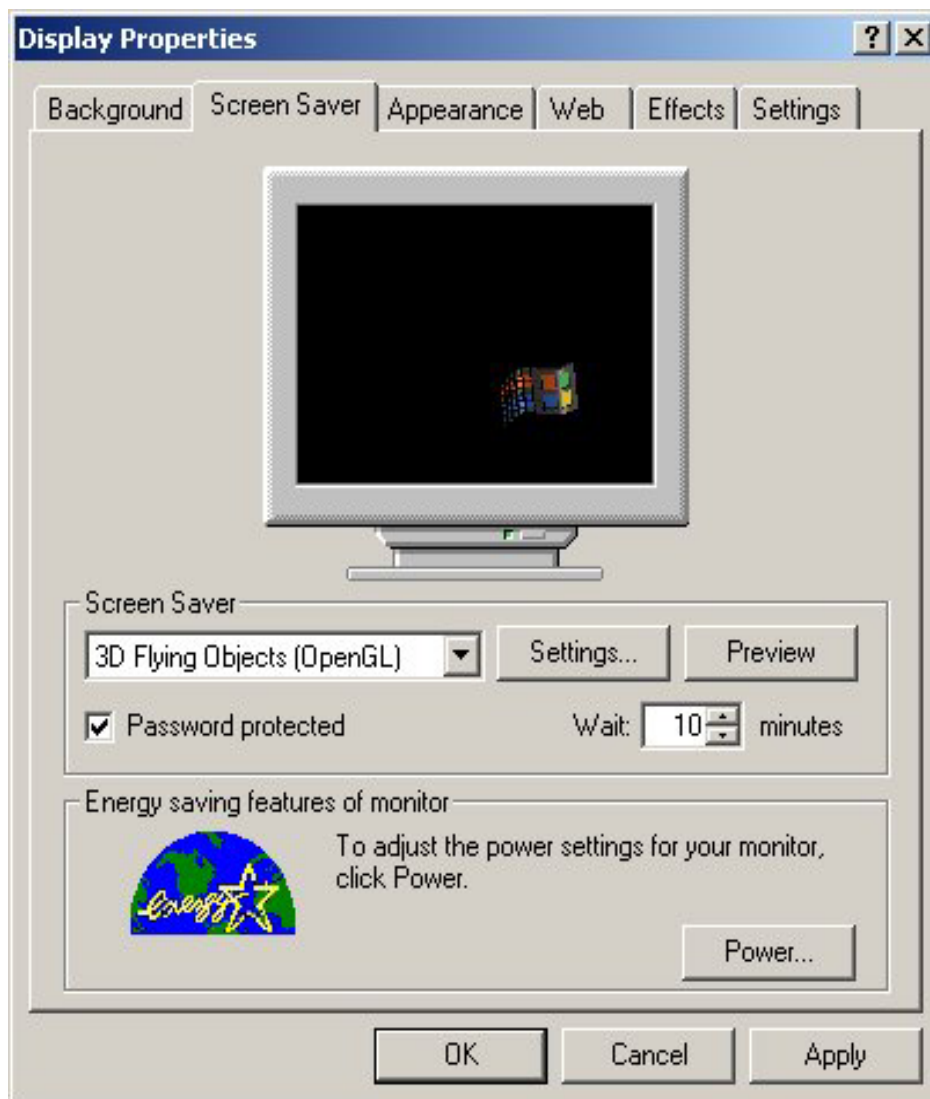
When the user wants to turn off the screen saver, he/she can do so using the user authentication (with Fingerprint, Password, or both of them)

1. Select 'Password protected' from Screen Saver, set the Waiting Time and press OK.

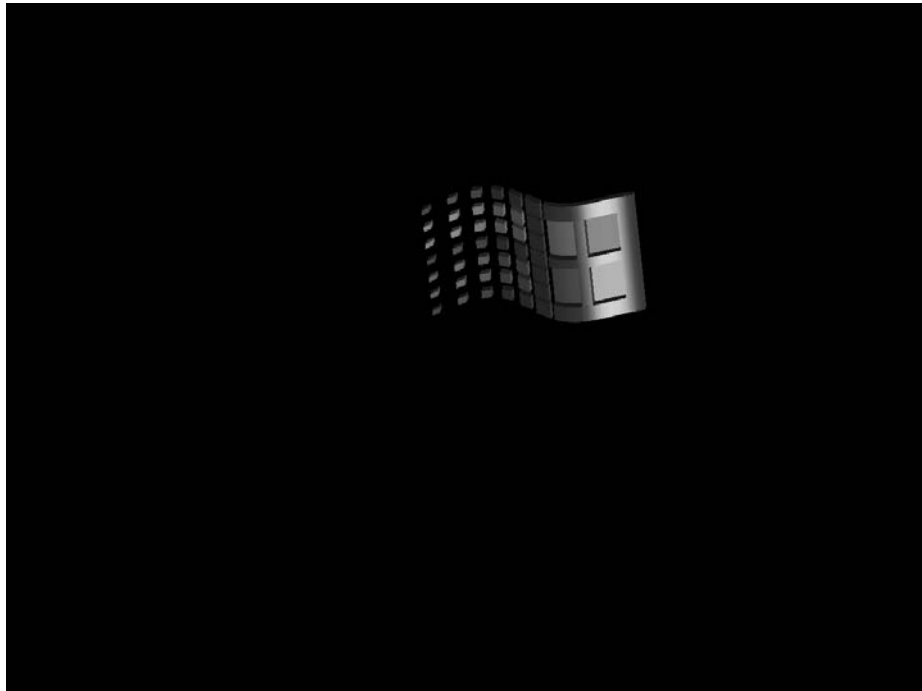
<Windows 98>



<Windows 2000>



2. When the user is absent for the time set as the waiting time, the Screen Saver will run automatically.



3. When you press a key or move a mouse, a window for user authentication will appear. If you input the correct fingerprint or Password, then the Screen Saver will



stop.

A screenshot of the SONURO login interface. The background is black. In the center, there is a grey rectangular box containing the login form. The form has a header with the SONURO logo and the text 'Real Security With Your Fingerprint'. Below this, there are two input fields: 'User ID' with the text 'Admin' and 'Password' which is empty. To the right of the password field is a small white square. Below the input fields, there is a line of text: 'Enter the password and press 'Enter''.

**SONURO**  
*Real Security  
With Your Fingerprint*

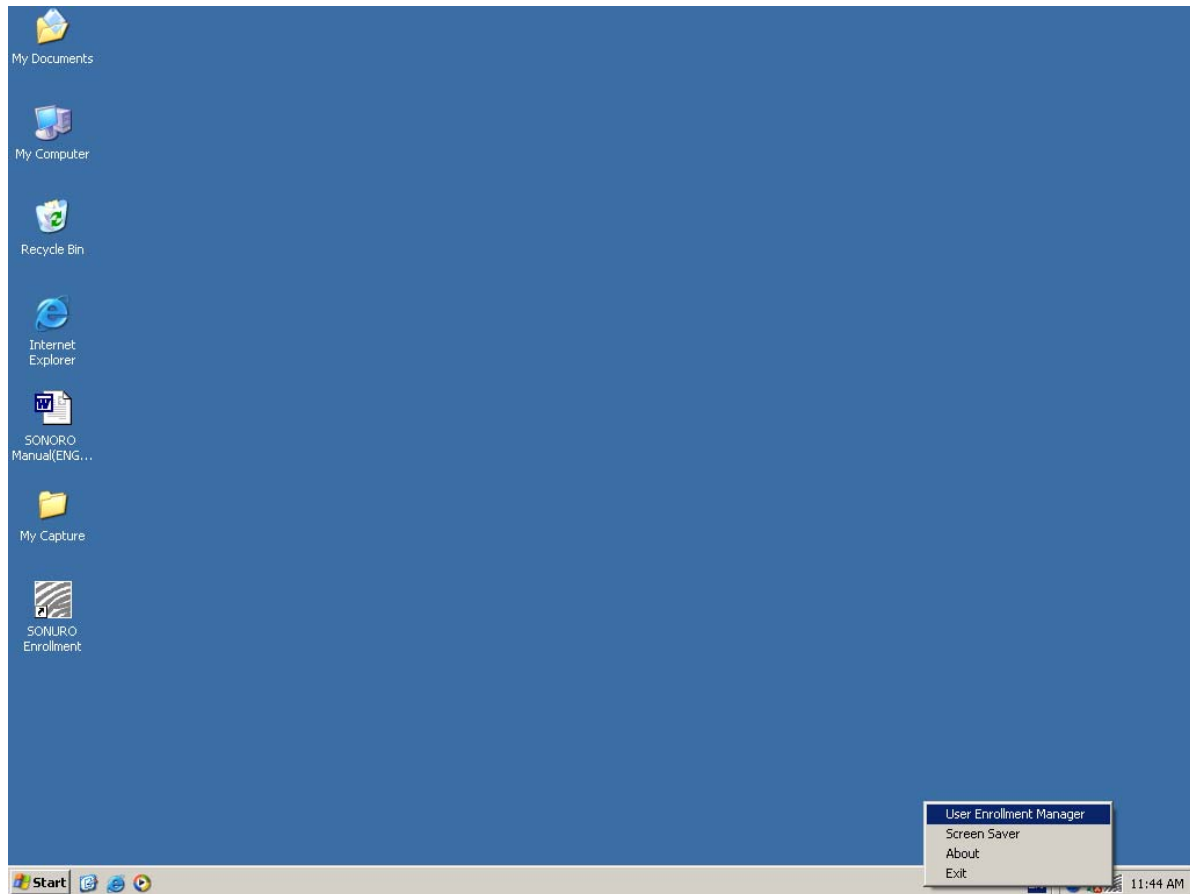
User ID

Password

Enter the password and press 'Enter'.

◆ **NOTE**

If you run Screen Saver from System Tray menu it will be run right away. But for this to happen, the password for Screensaver must be set beforehand. Otherwise, the Screen Saver in the System Tray menu will be in deactivated form.



## **NOTE**

### **Windows XP**

When windows messenger (MSN messenger) is online, Screensaver does not work.  
It is Screensaver problem Windows XP Version.

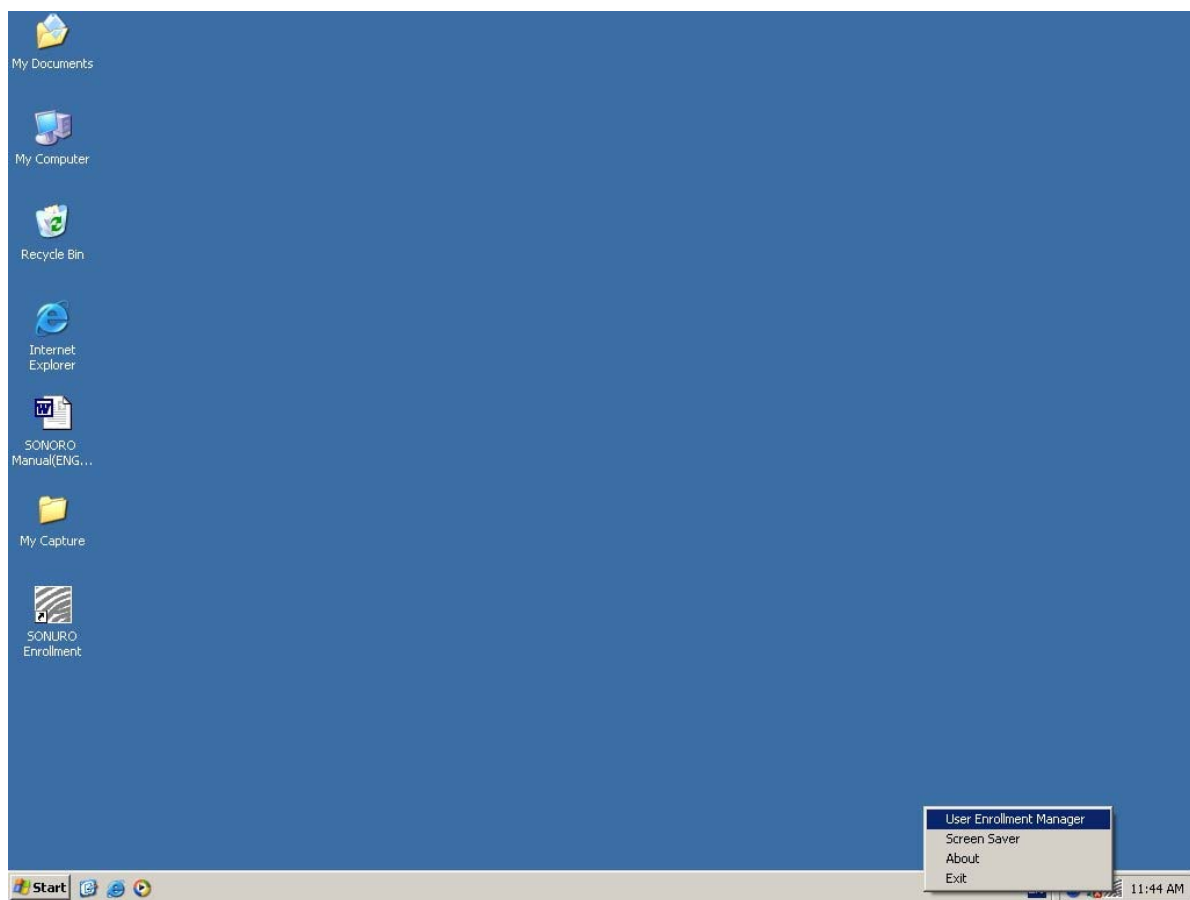


# **Chapter 8   System Tray Menu**

## **1. Introduction**

## 1. Introduction

A menu as in the figure below will appear if you click the right mouse button on the SONURO Icon in the System Tray.





1. Administrator Program

Runs User Management Wizard of SONURO.

2. Screensaver

Protects data in the user's absence.

3. About

Shows properties of SONURO system.

4. Exit

Quits SONURO system.

## **F A Q**

- 1. The message “Fingerprint registration file is missing or damaged. Please register new user” appeared when running the Administrator Program.**

It means user data file has been damaged. If you already have a user data back-up file, you can copy the file into the System folder and restart the computer.

- 2. After fingerprint authentication of Secure Logon, Windows default logon window still appears.**

Delete the currently set log-on password in the Control Panel.

- 3. After Password authentication of Secure Logon, Windows default logon window still appears.**

Change the log-on password to the same one used in SONURO authentication.

- 4. After installation, system worked well for a while but now fingerprint registration or authentication is not working.**

Please clean the fingerprint sensor with soft cloth and try again. If it still doesn't work, please contact us for customer service.

- 5. The pointer of mouse does not move on the monitor screen.**

First, check if the mouse is properly connected to a USB port. If properly connected, then disconnect it for 5 seconds and reconnect it. If the problem is not resolved, please contact us for customer service.

- 6. The hardware installation wizard does not show up after SONURO is connected.**

Please check if USB Port is set as enabled at CMOS setting. If so, please contact us.

**7. I cannot delete other users using the Administrator Program.**

Only those authorized as administrators of the Windows have the authority to delete other users.

**8. Is there anything that I should note before uninstalling the SONURO Software?**

If you uninstall SONURO, you cannot decrypt the files or folders encrypted using SONURO. Please do decrypt the all files and folders first and then uninstall the SONURO software.

**9. What is File (Folder) Encryption?**

Transformation of data into a not-understandable form so that it cannot be used if not decrypted using some secret information (called keys).

**10. How can I encrypt multiple files?**

Just select those files to be encrypted using the Shift key or Control key. Then you can encrypt those files “at the same time”.

**11. Can I encrypt the encrypted file?**

SONURO does not support encryption of already encrypted files.

**12. Is File Encryption and Decryption only available in Windows Explorer?**

When you click right button on SONURO Icon in the System Tray Icon, you can see Encryption and Decryption menus. Using these, you can Encrypt and Decrypt files in another way.

### **13. How can I use “Fingerprint Protection” of Screen Saver?**

Click the right mouse button in the Desktop and select Properties. Select the tab Screen Saver. Check “Fingerprint Protection” and set the waiting time.

### **14.If the error message “sensor error in read” appears.**

There is a connection problem between your computer and the fingerprint device. First, turn off your computer, re-connect the USB connector and boot your computer. Even if after finishing these steps, the problem hasn’t been solved, reinstall the driver.

### **15.If the error message “incorrect fingerprint” appears.**

It means that the fingerprint device hasn’t recognized the fingerprint correctly. To solve this problem, make the screen of the fingerprint device clean and try again.

### **16. If the error message “can not find core of fingerprint” appears.**

Make sure that the core of your fingerprint is located on the center of the screen.



## **Warranty Policy**

Product Name : SONURO

Model No. :

Serial No :

Purchasing Date :

### **About Service**

We, Safe Valley Inc provide following warranty service as per Consumer compensation policy.

### **Free Coverage**

Free warranty coverage of fingerprint device is 1 (one) year validated from the purchase date. Product will fully covered as returned good or exchange during free warranty coverage period.

However, user will not cover the warranty for any trouble causing of initial installation or the cases refer to 'Service in Charge'. After 1 (one) year warranty coverage, all type of service will be in charged to consumer.

### **Service in Charge**

#### **1. Trouble occurred causing of Consumer's fault**

Trouble occurred causing of Consumer's incautiousness of usage or remodeling or repair.

Trouble occurred causing of using other related product that is not provided by Safe Valley.

Trouble occurred causing to impact of collision by Consumer's fault.

#### **2. Other cases**

Service required but found none of error or trouble.

Trouble occurred causing of natural disaster.



## **Software License**

Product Name : SONURO

Serial No :

This Software and related all documents are authorized to user or group under Serial No.

All related matters about usage of software will be based upon policy that indicated on SOFTWARE USER LICENSE AGREEMENT.

This license is approved for purchase of product and need for upgrade or after sales service. Please keep this license in safe place.





### FCC NOTICE

This device complies with Part 15 of the FCC Rules.  
Operation is subject to the following two conditions:  
(1) This Device may not cause harmful interference, and  
(2) This device must accept any interference received,  
including interference that may cause undesired  
operation.

CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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