Using fingerprint scanners on NICE laptops HP EliteBook xx40p and xx60p

Introduction
HP laptops available from CERN stores are equipped with fingerprint scanners. In response to user demand, software packages enabling use of these fingerprint scanners are now available for installation from CMF on Windows 7. After installation of the software, NICE users can set it up so that they can log on to their laptop by scanning their fingerprint.

Scope and support
Scanning your fingerprint may be a convenient way to log on to your NICE laptop or to unlock it, especially if you set it up to lock the screen after only a short time of idleness. The software packages available from CMF are well suited for these scenarios.

At the same time, password authentication remains the primary authentication method on NICE computers. Fingerprints that you enrolled on your laptop will be recognised only on this laptop and will not enable you to log on to a different NICE computer, even if it is equipped with a fingerprint scanner.

It is not planned to extend use of fingerprint scanners at CERN beyond these basic scenarios, which are limited to CERN HP laptops running Windows 7. The Service Desk may assist you in setting up the fingerprint software, but if the proposed solution does not meet your requirements, the recommendation may be to fall back to using passwords.

Security considerations
When you log on to your laptop by scanning your fingerprint, you get the same credentials as if you authenticated with your password. If you are on the CERN network, you will have access to CERN computing resources: web applications, DFS folders, etc.

If a laptop is lost or stolen, standard guidelines apply: all passwords used on that laptop should be changed immediately at https://account.cern.ch/account/CERNAccount/ChangePassword.aspx.
This will render the enrolled fingerprints unusable. In fact, this step is important even if you did not use fingerprint authentication on a lost/stolen laptop!

Password change
After you change your Windows password, you must log on using your password at least once before using fingerprints again. Until you logon with your password, you may see the message “The user name or password is incorrect” when trying to use fingerprints.

Software package
HP Protect Tools is available for installation on HP EliteBook xx40p and HP EliteBook xx60p laptops.
Caveats
HP Protect Tools offers additional features, which – although potentially useful – may not be fully compatible with the CERN infrastructure and are therefore not supported by CERN Service Desk.

This applies to the following features of HP Protect Tools:

- Password manager
- Digital pass
- Pre-boot Security
- SpareKey
- SmartCard authentication
- Change Windows Password

In particular, it is not recommended to use SmartCard authentication and “Change Windows Password” functions of HP Protect Tools should, as they are known to be incompatible with CERN infrastructure.

Installation instructions for HP EliteBook xx40p or xx60p series
1. Install “MS Visual C++ 2008 Redistr” from CMF.
2. Install “HP Protect Tools v.6.05.980 for W7” from CMF.
3. Reboot your PC.
4. After the reboot, log on using your username and password. You should see “HP ProtectTools Security Manager Setup” welcome screen. Click on the “Next” button.

5. Confirm the Windows Account Management credential elevation prompt.
6. When prompted to verify your Windows password, enter your CERN password (assuming that you are logged on with your CERN username) and click “Next”.

7. When prompted to set up you SpareKey, click “Skip SpareKey setup”.

8. When prompted to “Enable security features”, simply click “Next”.

9. When prompted to “Choose your credentials”, make sure that the “Fingerprints” checkbox is selected and click “Next”.

10. Click on the image of the finger to start fingerprint enrolment.

11. Scan your fingerprint following the video instructions. You will have to swipe your finger several times before its print is correctly enrolled.
12. Enrol another finger, so that at least 2 fingers are correctly enrolled. After you do this, click next.

13. On the “Finish” confirmation screen, click on the “Finish” button. From this moment, you will be able to authenticate by scanning your fingerprint.
14. By default, HP Protect Tools enables Password Manager, which will prompt you to save passwords that you type on web pages (and use fingerprint scanning instead). CERN IT does not recommend using this functionality. To disable these prompts:
   a. Right-click on the HP Protect Tools Security Manager tray icon and click Open Security Manager
   
   ![Security Manager Screenshot]

   b. In the Security Manager, navigate to Password Manager > Settings and un-tick the “Prompt to add logons for logon screens” checkbox; then click “Apply”.

   ![Password Manager Settings Screenshot]

Logging on by scanning fingerprint on HP EliteBook xx40p or xx60p series
After completing the procedure described above, you can now log on to Windows by scanning your fingerprint. If the software is correctly set up, you will see the following screen before your next log on.