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Readme

TouchChip Drivers for Windows

Version 2.19C

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1 Introduction

This document contains information regarding the drivers for UPEK's TouchChip and TouchStrip authentication hardware.

2 Package Contents

This package includes driver files for Windows XP/Server2003/Vista/Server2008 and files for the Windows 7 / Server 2008 R2 legacy mode driver.

The Windows 7 / Server 2008 R2 legacy driver is intended for use by applications that were originally written for Vista and older systems and that DO NOT use the new Windows 7 Biometric Framework (WBF or WinBio).

WBF is a new Microsoft technology introduced in Windows 7 which provides support for fingerprint biometric devices through a new set of components. If you need a WinBio driver for Windows 7 / Server 2008 R2, please download the alternative driver package.

3 Supported Products

This driver supports following products:

- TouchStrip Chipset with USB interface based on chips TCD41, TCD42 or TCD50
- TouchStrip Sensor with USB interface based on chips TCS4A, TCS4B, TCS4C, TCS4E, TCS4K, TCS5B or TCS5D
- Products with in-built TouchStrip Chipset or TouchStrip Sensor (e.g. notebooks)
- TouchStrip USB fingerprint readers TCRZ3, EIKON, EIKON II and EIKON-TO-GO
- TouchChip Trusted Fingerprint Module TCEBB1C with USB interface (TFM) or TFM chipsets (TCD21/TCS1, TCD21/TCS2)
- TouchChip area sensor USB fingerprint readers based on ST9 controller: TCRU1C, TCRU2C, TCRB1C, TCRU1A
- TouchChip area sensor USB fingerprint readers based on Cypress controller CY764215, e.g. the TCEFB module
- TouchChip area sensor USB fingerprint readers based on STM32 controller

Supported Operating Systems:

- Windows XP/Server2003/Vista/Server2008/Windows 7 on 32-bit platform
- Windows XP/Server2003/Vista/Server2008/Windows 7/Server2008 R2 on 64-bit platform

Note: Smartcard-enabled TouchChip readers (TCRP1C, TCRA1C, TCRS1C) are not supported by this driver. Dedicated driver version is available for these USB readers.

4 Files

4.1 Driver Files

Windows Vista driver on 32-bit platform:	tcusb.inf	vista-32bit directory

Windows Vista driver on 64-bit platform:	tcusb.inf	vista-64bit directory
Windows Server 2008 driver on 32-bit platform:	tcusb.inf	server2008-32bit directory
Windows Server 2008 driver on 64-bit platform:	tcusb.inf	server2008-64bit directory
Windows XP driver on 32-bit platform:	tcusb.inf	xp-32bit directory
Windows XP driver on 64-bit platform:	tcusb.inf	xp-64bit directory
Windows Server 2003 driver on 32-bit platform:	tcusb.inf	server2003-32bit directory
Windows Server 2003 driver on 64-bit platform:	tcusb.inf	server2003-64bit directory
Windows 2000 driver: **(NOT SUPPORTED)**	tcusb2k.inf	unsupported-driver-w2k-32bit directory
Windows 7 driver on 32-bit platform:	tcusb.inf	w7-32bit directory
Windows 7 driver on 64-bit platform:	tcusb.inf	w7-64bit directory
Windows Server 2008 R2 driver on 64-bit platform:	tcusb.inf	server2008R2-64bit

4.2 Install

Folder `install` installation of drivers (`setup.exe` for 32-bit systems, `setup.msi` for 64-bit systems).

4.3 Merge modules

Folder `merge_modules` contains merge modules (`driver_w7.msm` - merge module for Windows 7 / Server 2008 R2, `driver.msm` - merge module for all other systems).

5 Installation

5.1 Using Setup or Merge Module

The drivers can be installed by running the `setup.exe` (for 32-bit systems) or `setup.msi` (for 64-bit systems).

Silent installation of drivers is also possible. On Windows Vista/Server2008/Windows 7/Server2008 R2, silent setup must be run from elevated Command prompt.

- 32-bit OS: use the following syntax: Setup.exe /q /i
- 64-bit OS: use the following syntax: msiexec.exe /i Setup.msi /q.

To uninstall, use /x instead of /i.

The `driver.msm` and `driver_w7.msm` are standard Windows Installer merge modules which can be included into the setup program of your application to install the drivers.

5.2 Manual Installation

Devices with built-in fingerprint sensor (e.g. notebooks)
TCRU, TCRB, TCRZ, TCEBB1C and other devices connected to USB port

Follow these steps to install TouchChip driver if you are using a device with built-in fingerprint sensor (such as a notebook computer):

1. Open the Device Manager window.

   On Windows XP/Server2003: Right-click My Computer icon (or use shortcut Windows Key + Pause), select "Hardware" tab and click the "Device Manager" button. On Vista/Server2008/Windows 7/Server2008 R2: Right-click Computer icon and select "Manage" (proceed with elevation, if required). Device Manager window appears. In the left panel, select "Device Manager".

2. On Windows XP/Vista/Server2008/Windows 7/Server2008 R2 - with TouchStrip, EIKON and TCRZ3 and TCEBB1C devices:

   look for "Biometric" branch. If "TouchChip Fingerprint Coprocessor" is listed with a yellow exclamation mark, right click the item, choose "Properties" and select "Reinstall driver ...". This will invoke the Device Driver/Hardware Update Wizard.

   On Windows XP/Vista/Server2008/Windows 7/Server2008 R2 - with TouchChip area sensor devices:

   look for "Biometric" branch. If "TouchChip Fingerprint Reader" is listed with a yellow exclamation mark, right click the item, choose "Properties" and select "Reinstall driver ...". This will invoke the Device Driver/Hardware Update Wizard.

   On Windows Server2003:

   look for "Personal Identification devices" branch. If "TouchChip Fingerprint Reader" or "TouchChip Fingerprint Coprocessor" are listed with a yellow exclamation mark, right-click the item, choose "Properties" and select "Reinstall driver ...". This will invoke the Device Driver/Hardware Update Wizard.

3. If you cannot find your device listed, perform "Scan for hardware changes".

4. Device Driver/Hardware Update Wizard will start and you will be prompted for drivers.

   Insert the installation CD/driver CD and continue the wizard by choosing "Specify the location of driver". Select the directory that includes TouchChip drivers (if you have obtained original CD from TouchChip, drivers are stored in \Drivers directory) and complete the wizard.

Follow these steps to install the TouchChip driver for your USB device:

1. Plug in your fingerprint device.

2. "Found New Hardware" or similar dialog is displayed.

If no such dialog is displayed, proceed as follows:

1. Open the Device Manager window:

   On Windows XP/Server2003: Right-click My Computer icon (or use shortcut Windows Key + Pause), select "Hardware" tab and click the "Device Manager" button. On Vista/Server2008/Windows 7: Right-click Computer icon and select "Manage" (proceed with elevation, if required). Device Manager window appears. In the left panel, select "Device Manager".

2. If "TouchChip Fingerprint Reader" or "TouchChip Fingerprint Coprocessor" are listed with a yellow exclamation mark in "Biometric" branch (Windows XP/Vista/Server2008/Windows 7/Server2008 R2) or under "Personal Identification devices" branch (Windows Server2003), right click such item, choose "Properties" and select "Reinstall driver ...". This will invoke the Device Driver / Hardware Update Wizard.