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TouchChip Drivers for Windows



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1 Introduction

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

2 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 or TCS5B
- 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 2000/XP/Server2003/Vista/Server2008 on 32-bit platform
- XP/Server2003/Vista/Server2008 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.

3 Files

3.1 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:	tcusb2k.inf	w2k-32bit directory

3.2 Install

Folder `install` contains merge module (`driver.msm`) and installation of drivers (`setup.exe` for 32-bit systems, `setup.msi` for 64-bit systems).

4 Installation

4.1 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, 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` is a standard Windows Installer merge module which can be included into the setup program of your application to install the drivers.

4.2 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.

(Right-click MyComputer icon, or use shortcut Windows Key + Pause; on Windows 2000/XP/Server2003: select "Hardware" tab and click the "Device Manager" button). On Vista: Device Manager in left column and proceed elevation.

2. On Windows 2000/XP/Vista/Server2008 - 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 2000/XP/Vista/Server2008 - 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:

Right-click My Computer icon, or use the Windows Key + Pause shortcut, on Windows2000/XP/Server2003: select "Hardware" tab and click the "Device Manager" button. On Vista/Server2008: Select Device manager in the left column and proceed elevation.

2. If "TouchChip Fingerprint Reader" or "TouchChip Fingerprint Coprocessor" are listed with a yellow exclamation mark in "Biometric" branch (Windows 2000/XP/Vista/Server2008) 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.