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TouchChip Drivers for Windows - WinBio

Version 1.6.1

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1 Introduction

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

2 Package Contents

This package includes driver files for Windows XP/Vista/Server2008 and files for the Windows 7 / Server 2008 R2 / Windows 8 WinBio driver.

The WinBio driver is intended for use by applications that use the Windows 7 Biometric Framework (WBF or WinBio). WBF is a Microsoft technology introduced in Windows 7 which provides support for fingerprint biometric devices through a new set of components.

If you need a legacy driver for Windows 7 / 8 / Server 2008 R2 (e.g. in case your application was written for Windows Vista and earlier versions), please download the alternative driver package.

3 Supported Products

The driver supports following devices:

- TouchStrip Chipset with USB interface based on chips TCD41, TCD42, TCD50, TCD51, TCD58, TCD 59
- TouchStrip Sensor with USB interface based on chips TCS4A, TCS4B, TCS4C, TCS4E, TCS4K, TCS5B, 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 area sensor USB fingerprint readers - TCEFC1 module (TCD50, TCS1)
- TouchChip area sensor USB fingerprint readers based on STM32 controller

Following devices are supported only by the legacy driver:

- 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

Supported Operating Systems:

- Windows XP/Vista/Server2008/Windows 7/Windows 8 on 32-bit platform
- XP/Vista/Server2008/Windows 7/Server2008 R2/ Windows 8 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
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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 2000 driver: (NOT SUPPORTED)	tcusb2k.inf	unsupported-driver-w2k-32bit directory
Windows 7 WinBio driver on 32-bit platform:	tcwbfadv.inf	w7_winbio-32bit directory
Windows 7 WinBio driver on 64-bit platform:	tcwbfadv.inf	w7_winbio-64bit directory
Windows Server 2008 R2 WinBio driver on 64-bit platform:	tcwbfadv.inf	server2008R2_winbio-64bit directory
Windows 8 WinBio driver on 32-bit platform:	tcwbfadv.inf	w8_winbio-32bit directory
Windows 8 WinBio driver on 64-bit platform:	tcwbfadv.inf	w8_winbio-64bit directory

4.2 Install

Folder `install` installation of drivers

4.3 Merge modules

Folder `merge_modules` contains merge modules (`driver_winbio.msm` - merge module for Windows 7 / Server 2008 R2/ Windows 8 WinBio Driver, `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.msi`.

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

Use the following syntax: `msiexec.exe /i Setup.msi /q`.

To uninstall, use `/x` instead of `/i`.

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

Note: Installing the Windows 7/8 WinBio driver over the Windows 7/8 TouchChip legacy driver may sometimes require reboot. Therefore, if you decide to use the Windows WinBio merge module in the setup program of your application and there is a possibility that it will be installed on systems with Windows 7/8 TouchChip legacy driver, please schedule a reboot in your setup program.

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: 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/Windows 8 - 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/Windows 8 - 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.

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: 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. 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/Windows 8), right click such item, choose "Properties" and select "Reinstall driver ...". This will invoke the Device Driver / Hardware Update Wizard.