Future Technology Devices International Ltd.

Application Note

AN_145

Vinculum-II Toolchain

Installation Guide

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Version 1.0

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The purpose of this application note is to provide users of Vinculum-II (VNC2) device with a procedure for installing the Vinculum-II software development toolchain

Table of Contents

1   Introduction

This document is intended to guide the reader through the process of installing the Vinculum-II software development toolchain. The Vinculum-II toolchain is designed to support the development of user firmware applications for the FTDI Vinculum-II (VNC2) programmable dual USB Host / Slave controller devices. The tool suite is provided as a royalty-free, 'C' based Integrated Development Environment (IDE), which comes complete with compiler, linker and hardware debug tools. The tool suite also contains an RTOS kernel, device drivers and a range of example applications to enable designers to easily migrate to and to quickly develop applications based on the FTDI VNC2.

2 Getting Vinculum-II Toolchain Installer

The latest available Vinculum-II toolchain installer can be downloaded from the FTDI website and this can be saved to a location on your PC. The Vinculum-II toolchain runs on Windows 7, Vista and Windows XP.

The instructions in this installation guide are based on the current version at the time of writing (version 1.0.4). The same instructions can be used for any future updates.

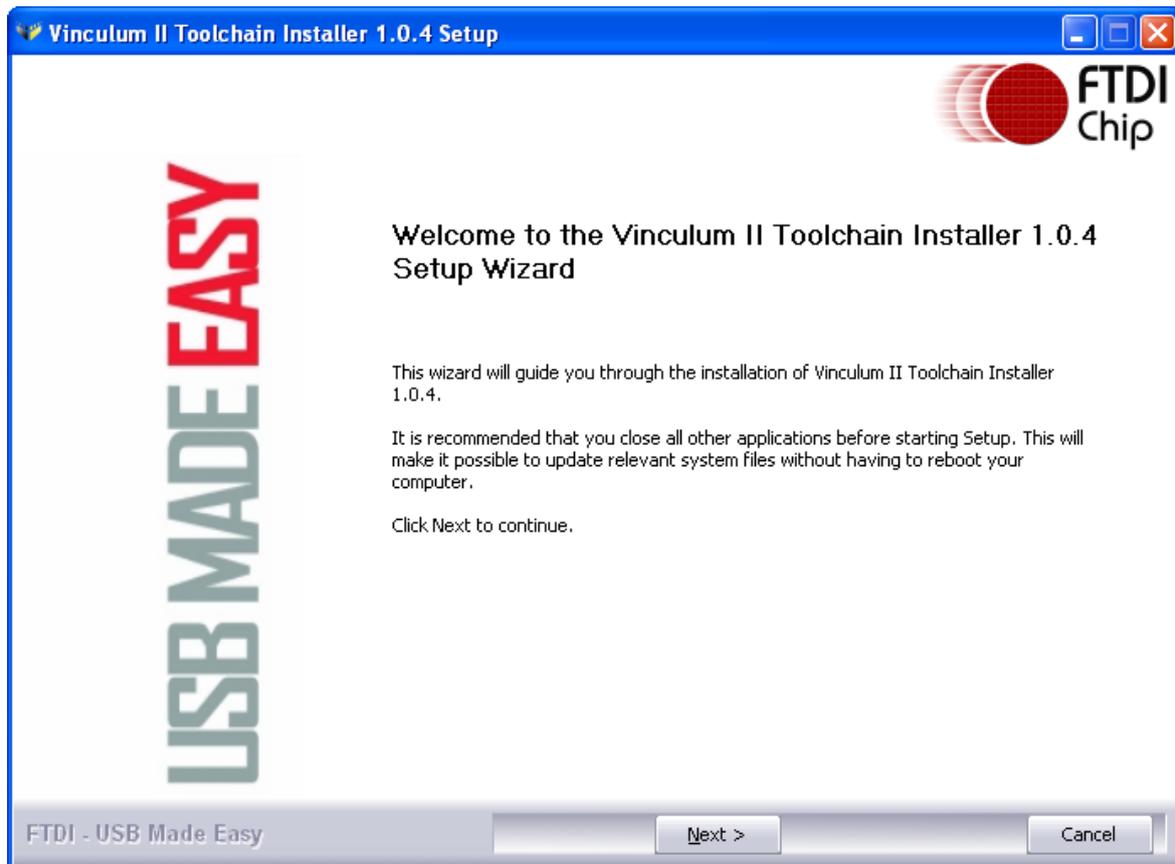# 3 Installing Vinculum-II Toolchain

Run the executable file obtained from the web download by double clicking on "Vinculum-II toolchain Installer 1.0.4.exe" icon. The installer icon is located on the PC wherever the user installed it when the toolchain was downloaded from the web.
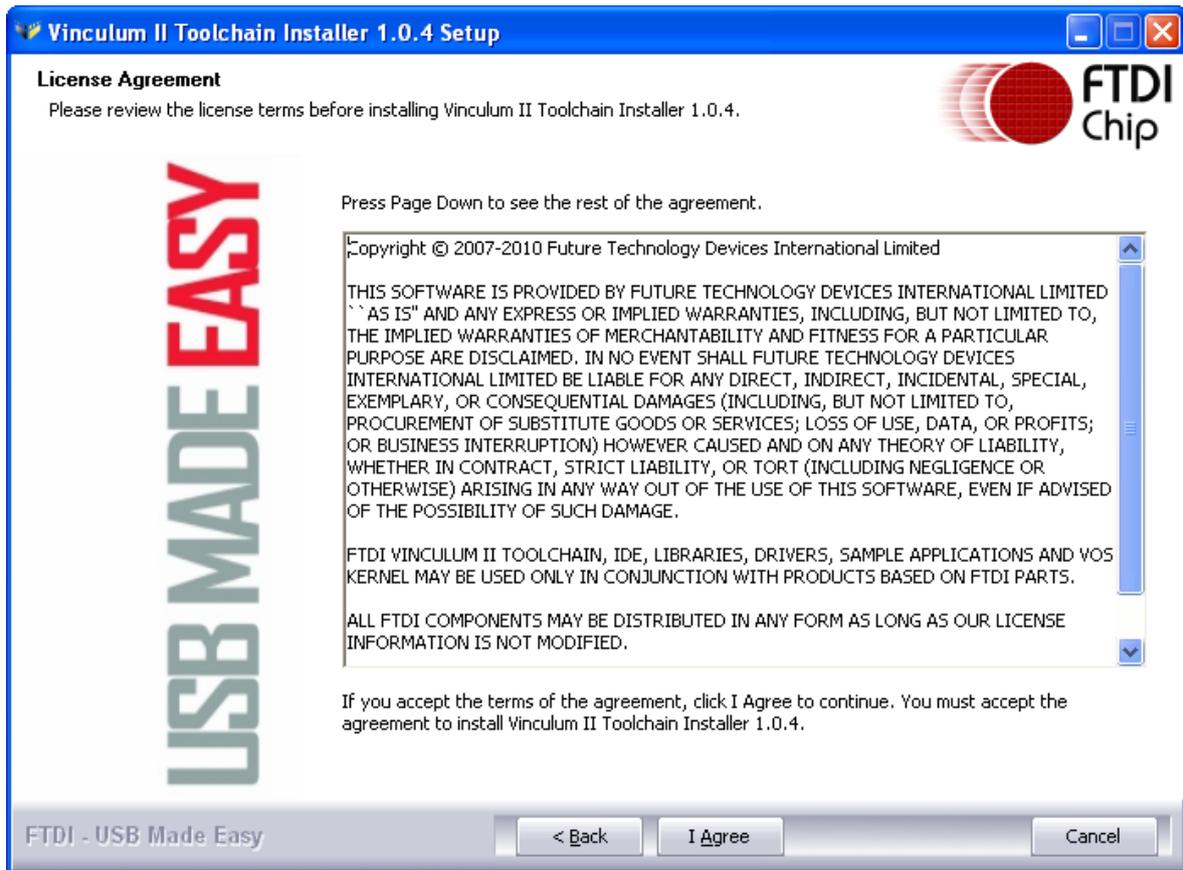

It is recommended to uninstall any previous installations of the toolchain before installing a new version.If a previous toolchain is not uninstalled before the installer is run then it will prompt whether to overwrite the existing installation or remove it first (see screenshot below):
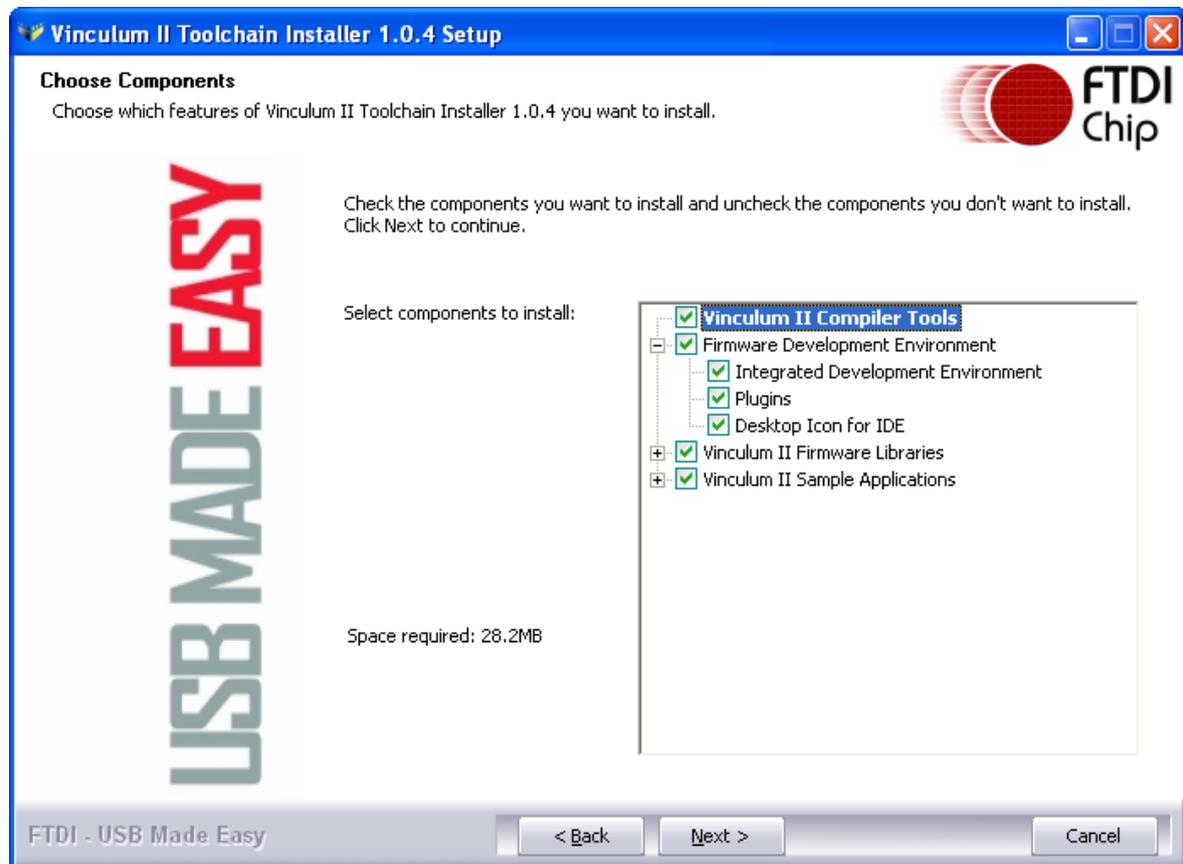

Select "Yes", to uninstall the previous installation. When this has been completed the following screen will

appear:

Click "Next" which will display the License Agreement screen as shown in the following screenshot:
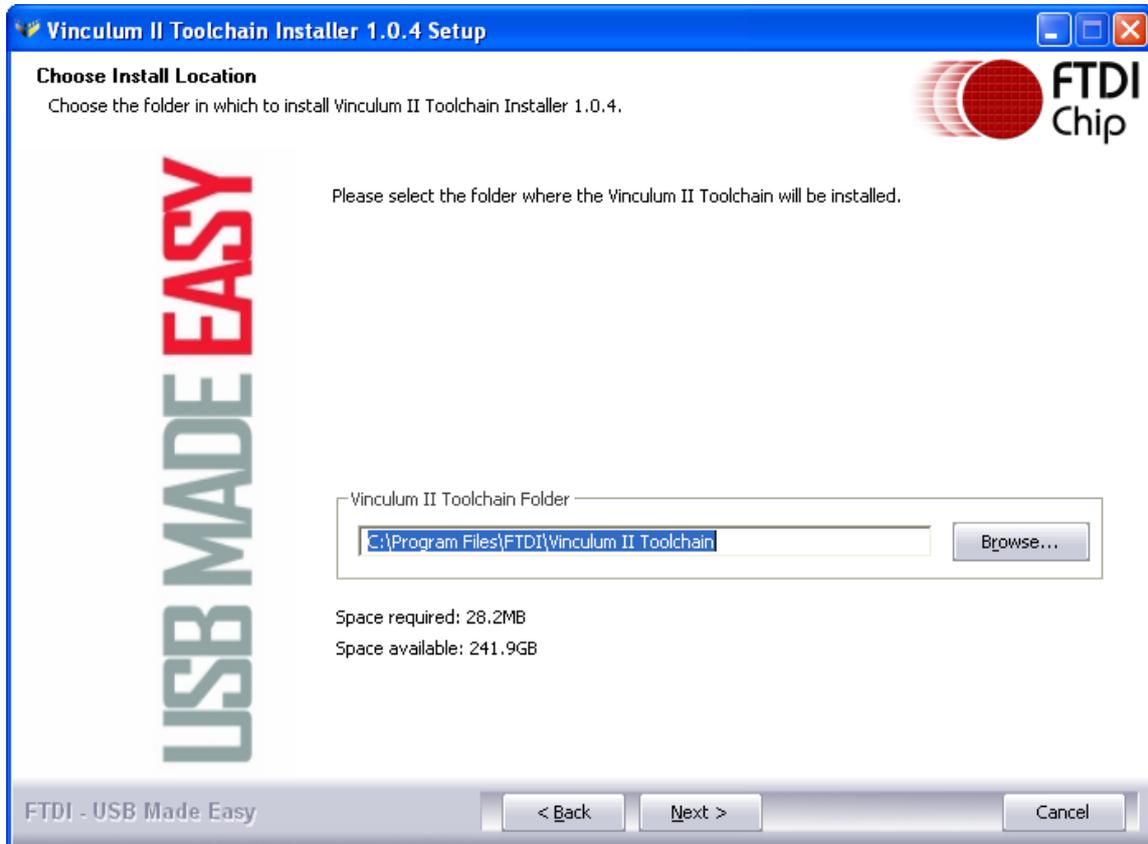
Review the license terms and Click "I Agree" to proceed and the following screen will appear.

By default, all components of the toolchain are installed. This guide, and FTDI's user documentation, assumes that all components are installed on a system.

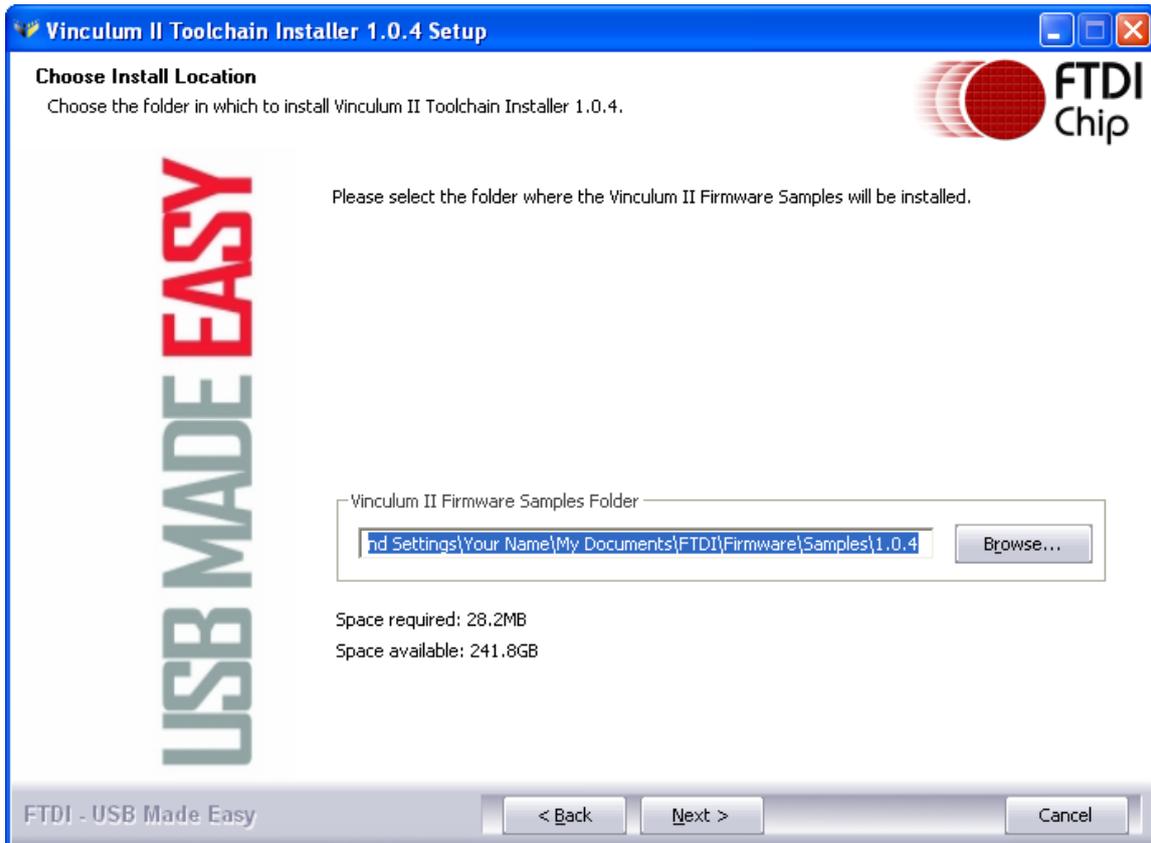Click "Next" to proceed and the following screen will appear.

Click "Browse" to select the folder where the Vinculum-II toolchain will be installed.

The default installation location is C:\Program Files\FTDI\Vinculum II toolchain
It is not essential to use the default location as shown in the above screenshot. Users can change the installation location if required.

The installer will automatically activate User Account Control to request elevated privileges while installing. This allows the installer to store files in the "Program Files" area of the PC and access the registry as required.

Click "Next" to proceed and the following screen will appear

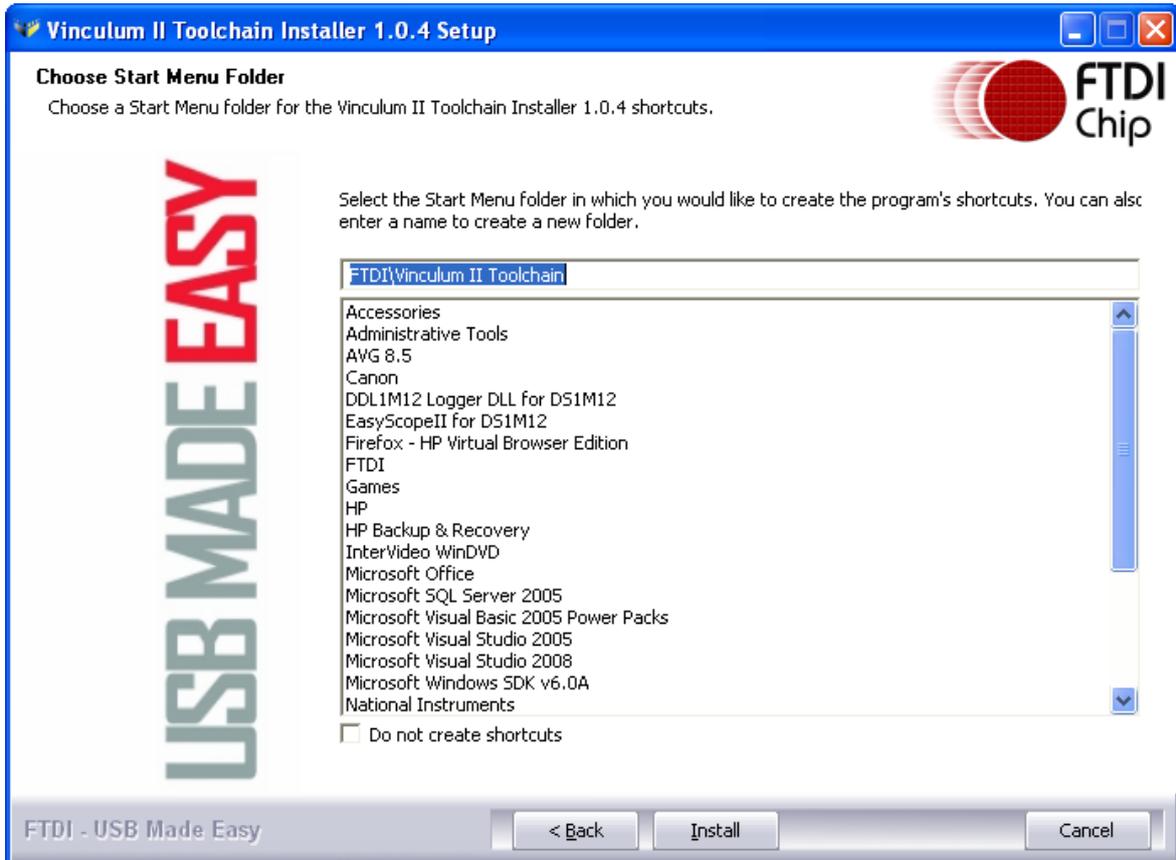Click "Browse" to browse to the required directory where the firmware samples are to be installed.

The default path is (the 1.0.4 is the revision of toolchain being installed here):

C:\Documents and Settings\"your name"\My Documents\FTDI\Firmware\Samples\1.0.4
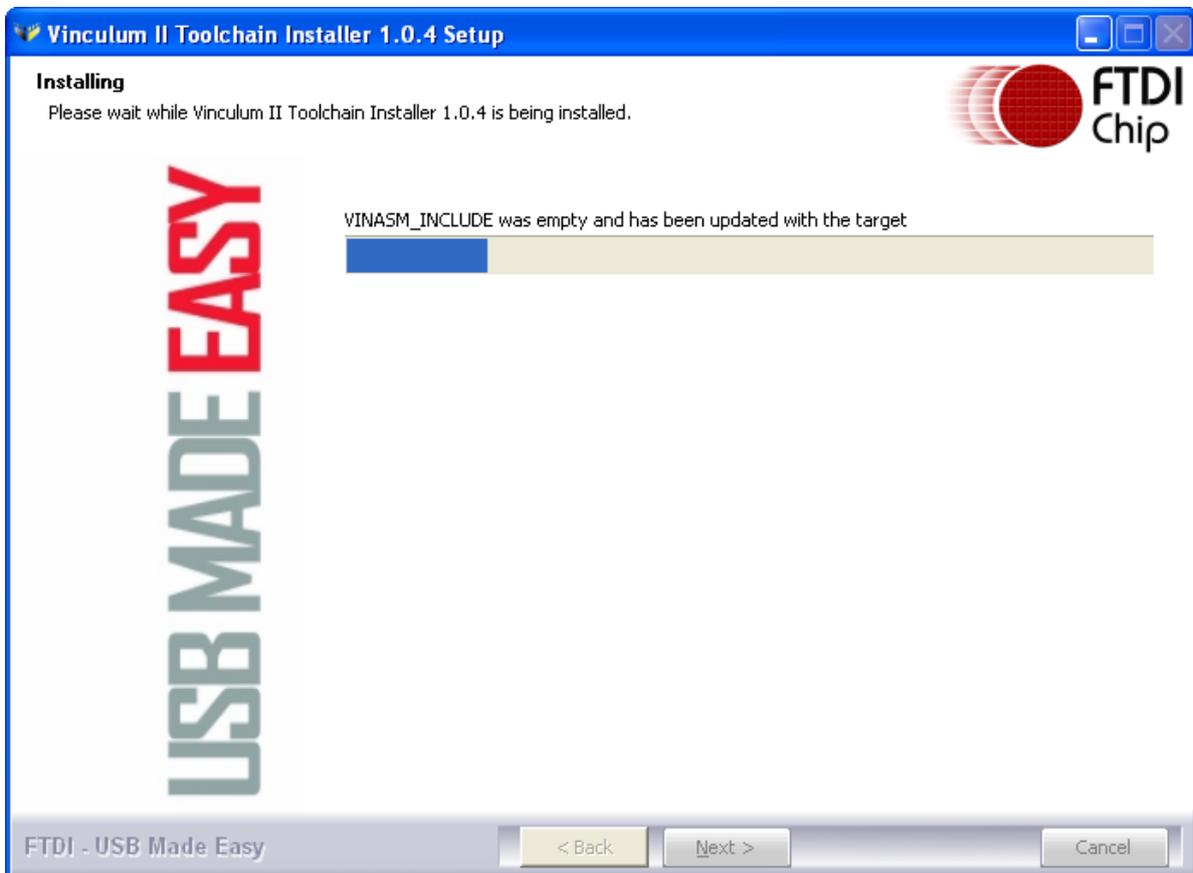
For subsequent releases and installation of the toolchain, the installer will, by default, store the samples in a unique folder to avoid overwriting samples from previous installations. If, however, a path is chosen where previous samples are stored then the installer checks that the user wishes to overwrite this area before doing so (see message box below).

Once the path has been entered in the box, click "Next" to proceed and the next screen will appear

Click "Install" and the next screen will appear.

When the installation has completed a completion screen will appear as shown in the following screenshot.

Click "Finish" to close the wizard and the installer displays a Readme file (Readme.txt)
It is recommended that users read this file.

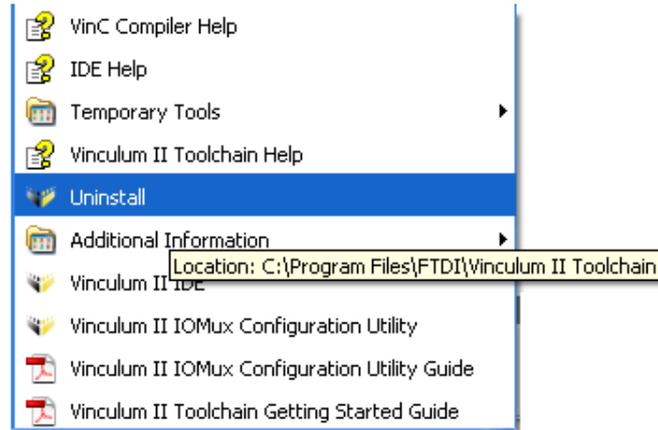Following installation it is recommended that the user refer to the following application note:

Vinculum-II Tool Chain Getting Started Guide

4 Uninstalling Vinculum-II Toolchain

Navigate to the directory where the Vinculum-II toolchain has been installed and double click "uninstall.exe icon"
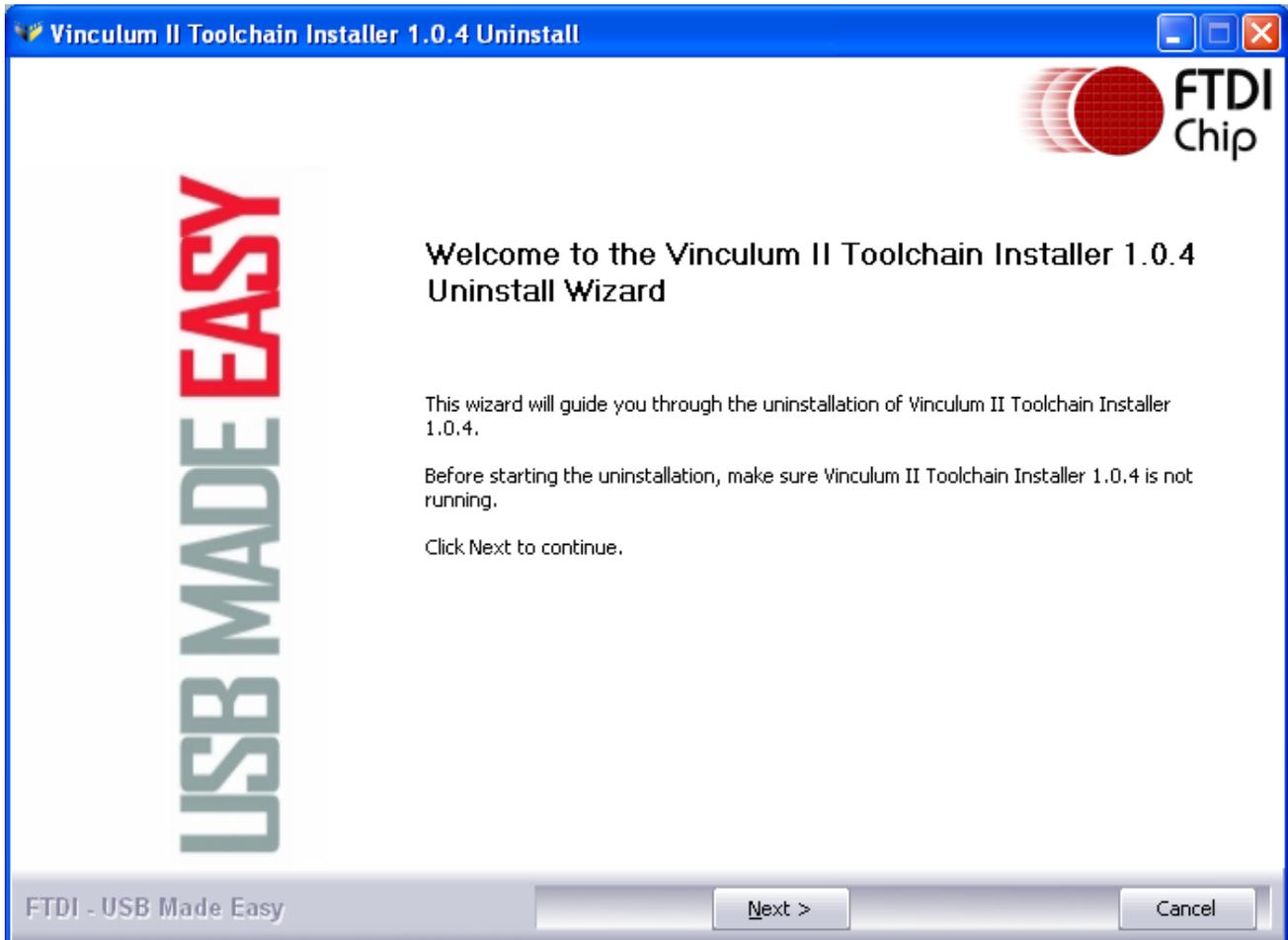
 uninstall.exe

The Uninstaller can also be accessed from the START menu : *Start->AllPrograms->FTDI Vinculum II Toolchain->Uninstall* on the Windows Toolbar.
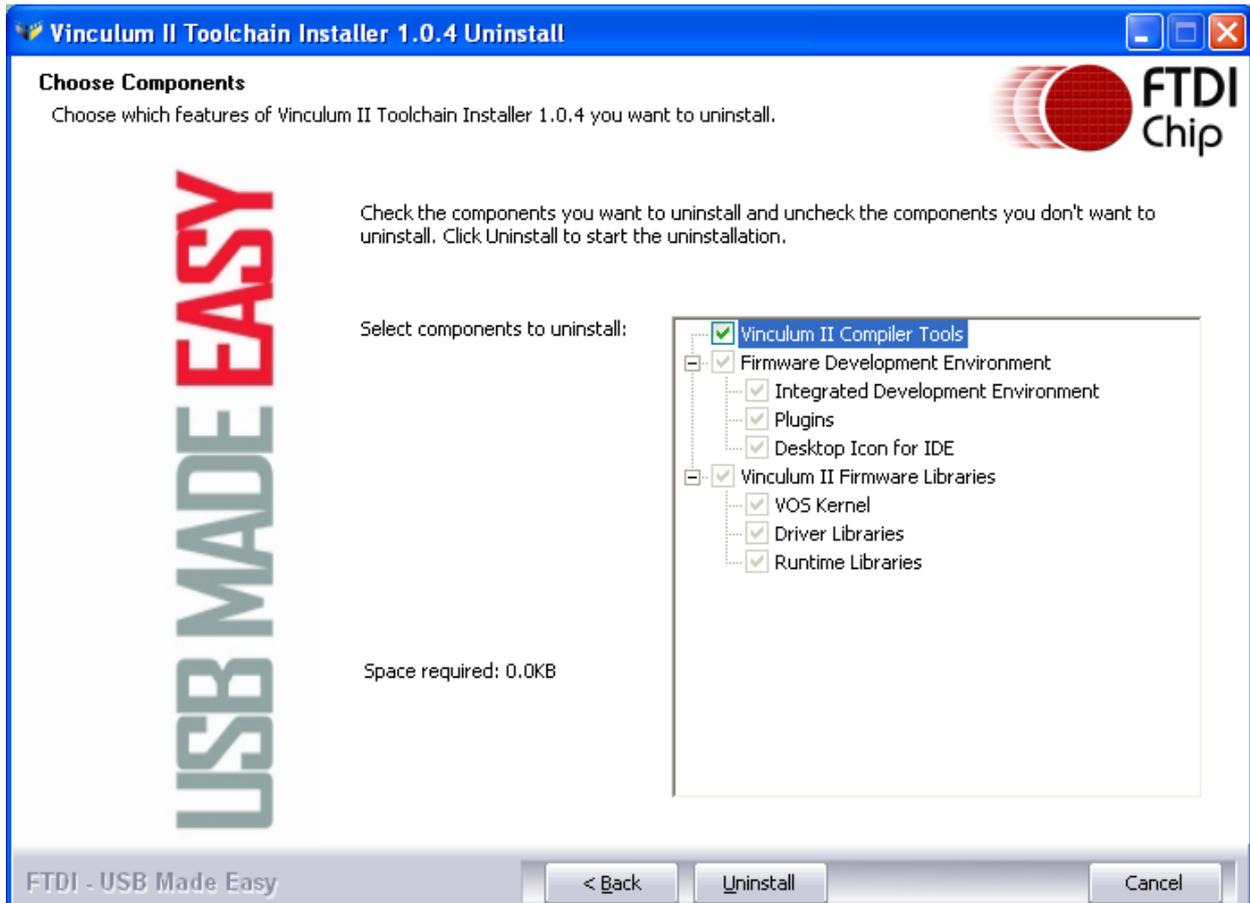

If the user has followed the installation wizard illustrated in this application note then the Vinculum-II toolchain will have been saved within the *Program Files/FTDI/Vinculum II Tool Chain* directory on local hard disc of the PC.
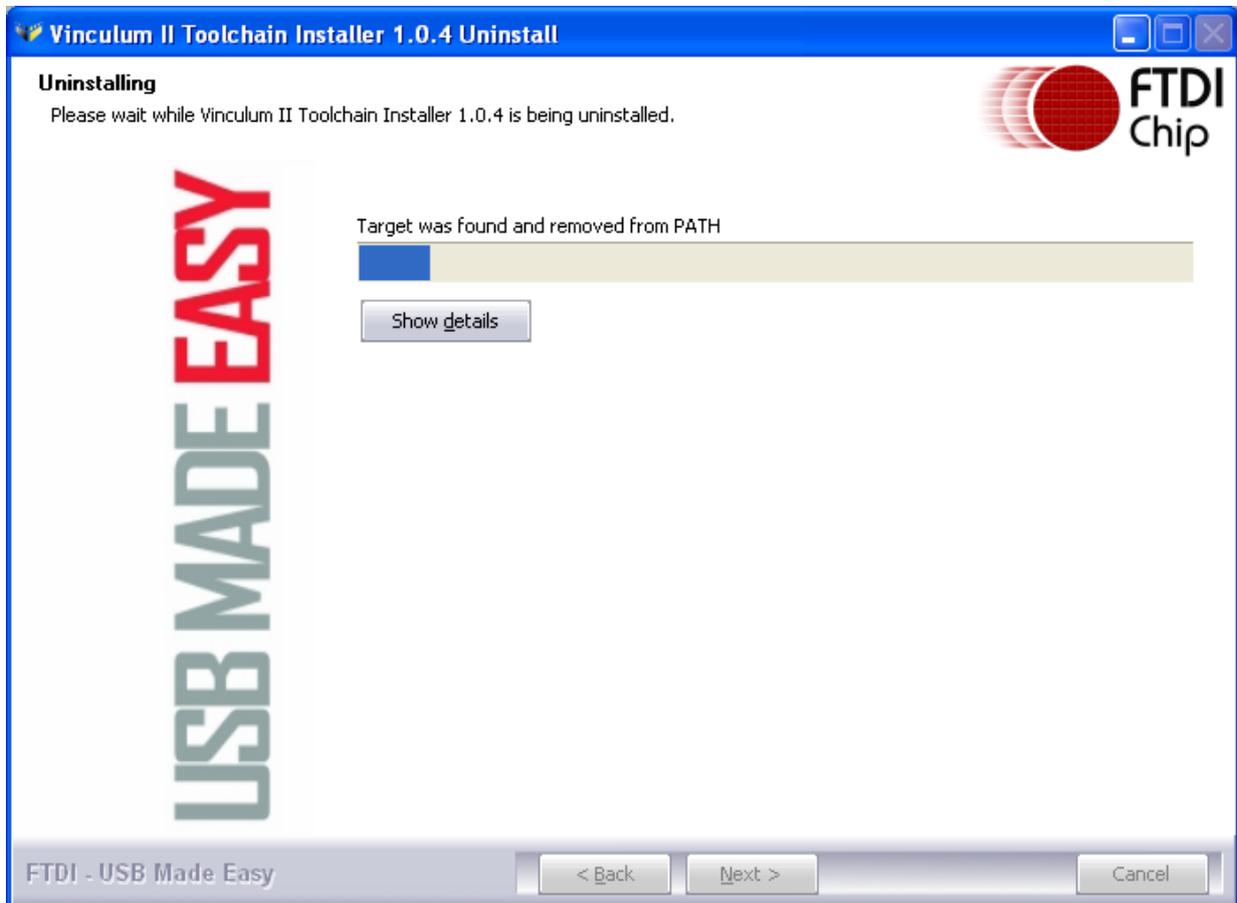
The screen will appear as shown below.

Click "Next" and the following screen will appear.

Click "Uninstall" and the following screen will appear.

When Vinculum-II toolchain has been successfully uninstalled, the screen below will automatically appear.

Click "Finish" to close the wizard.

5 Troubleshooting

5.1 Cannot Find Vinculum-II Firmware Samples

Following the installation wizard of this document, the Vinculum-II Firmware Samples are by default located within the *My Documents* folder of your PC.

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Distributor and Sales Representatives

Please visit the Sales Network page of the FTDI Web site for the contact details of our distributor(s) and sales representative(s) in your country.

Appendix A - References

Vinculum-II (VNC2)

Application and Technical Notes

Vinculum-II IO Cell Description

Vinculum-II Debug Interface Description

Vinculum-II IO Mux Explained

Vinculum-II PWM Example

Migrating Vinculum Designs From VNC1L to VNC2-48L1A

Vinculum-II Errata Technical Note

 Vinculum-II Tool Chain Getting Started Guide

VINCULUM-II IO_Mux Configuration Utility User Guide

Appendix B - Revision History

Version draft	First Draft	13/05/2010
Version 1.0	First Release	26/05/2010