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## **U8 Development Tools Release 1.10.0a Release Notes**

Thank you for purchasing U8 Development Tools. This document describes how to install the U8 Development Tools.

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### **1. Operating environment**

This release operates on Windows XP, Vista\* and 7\*.

\* 32-bit (x86) and 64-bit (x64) version. **Please log on with an administrator account.**

### **2. Supported LSI**

This release contains the following LSI's device information files. Please contact us or download them on [web site](#) when you use other LSI.

ML610Q101/Q102  
ML610Q111/Q112  
ML610Q172/Q173/Q174/Q178  
ML610Q304  
ML610Q340/Q346/Q347  
ML610Q355/Q356/Q359/Q360  
ML610Q380/Q385  
ML610401/402/403/404/405/406/Q407/Q408/Q409  
ML610Q411/Q412/Q413/Q415/Q419/Q419C  
ML610Q421/Q422/Q426/Q426C/Q428/Q429  
ML610Q431/Q432/Q435/Q436/Q438/Q439  
ML610Q471/Q472/Q473/Q474/Q475/Q476/Q477/Q478/Q479  
ML610Q482/Q484/Q486/Q488

### 3. Update Contents

The following updates have been added in this release:

(1) Update of CCU8. (V3.41)

- The feature which optimizes register saving and restoring for the function entrance and exit has been added.
- A part of restriction of INLINE pragma has been relieved.
- The problem which an internal error issues has been fixed to description which makes a variable declaration after that with reference to a constant within an inline function.

Refer to [CCU8's release notes](#) for details.

(2) Update of FWuEASE Flash Writer. (V2.00)

- The information source of the target microcontroller was changed to the TRG file for each target microcontroller
- The function which skips the data of the area which cannot be written in when a program file is loaded was added
- ML610Q101/Q102/Q111/Q112/Q355/Q356/Q359/Q360 were supported.

Refer to [FWuEASE's release notes](#) for details.

(3) The installer of MWuEASE Multiple Flash Writer was added.

(4) Update of device information files.

- Added the device information files for ML610Q304.
- Updated the device information files for ML610401/402/403/404/405/406/Q407/Q408/Q409.

## 4. CD-ROM Contents

The U8 Development Tools Setup CD contains files under the following directory configuration:

Folder		Contents	Description
\ (Root)		ReleaseNote_e.pdf (English) ReleaseNote_j.pdf (Japanese)	Release Note (this document)
		License_e.pdf (English) License_j.pdf (Japanese)	Software License Agreement Important: Read the Software License Agreement before using this software.
Setup		-	Installer files folder
U8DevTools	en	SetupU8Dev_e.exe (English)	This installer will install U8 Development Tools software (IDEU8, CCU8, MACU8, DTU8, LCD Image Tool, etc) and Manuals.
	jp	SetupU8Dev_j.exe (Japanese)	
FWuEASE	en	SetupFWuEASE_e.exe (English)	This installer will install FWuEASE Flash Writer.
	jp	SetupFWuEASE_j.exe (Japanese)	
MWuEASE	en	SetupMWuEASE_e.exe (English)	This installer will install MWuEASE Multiple Flash Writer.
	jp	SetupMWuEASE_j.exe (Japanese)	
U8DevInfo	en	SetupDevInfo_e.exe (English)	This installer will install device information files. <b>Please be sure to install these files after installing the U8 Development Tools Software, FWuEASE or MWuEASE.</b>
	jp	SetupDevInfo_j.exe (Japanese)	
Driver		uEASE_inst_pac	USB device driver files for uEASE and nanoEASE are contained.
		DrU8ICE_inst_pac	USB device driver files for Dr.U8ICE are contained.
		DrU16ICE_inst_pac	USB device driver files for Dr.U16ICE are contained.
		DrICE_inst_pac	USB device driver files for Dr.ICE are contained.
DocFiles		-	Manuals and Readme files folder for U8 Development Tools software and hardware.
Manuals	en	PDF Files (English)	English manuals are contained.
	jp	PDF Files (Japanese)	Japanese manuals are contained.
Readme	en	index_e.html (English)	English Readme files are contained.
	jp	index_j.html (Japanese)	Japanese Readme files are contained.

## 5. Installation

When installing the U8 Development Tools, be sure to take the following procedure. **In addition, you must be logged on with Administrator privileges upon installation.**

### Step 1: Uninstall an older version of U8 Development Tools

If you have an older version of U8 Development Tools installed in your PC, first uninstall it before installing this release. If no older version has been installed, go to step 2.

For the uninstallation method, see “6. Uninstallation” below.

### Step 2: Install this release

Insert the U8 Development Tools Setup CD into the CD-ROM drive of your PC.

#### (1) Installing the U8 Development Tools software

Run SetupU8Dev\_e.exe located in the Setup\U8DevTools\en directory of the Setup CD.

After that, follow the instructions given by the setup program.

By default, these will install the software into \Program files\U8Dev directory and create Start|Programs|U8 Tools menu. U8 Tools menu contains sub menu nX-U8 and nX-U8 Documents. nX-U8 menu contains the short-cut to U8 Development Tools software, release note and command-line-prompt. nX-U8 Documents menu contains the short-cut to the manuals for U8 Development Tools software.

#### (2) Installing the Flash Writer for uEASE (FWuEASE)

Run SetupFWuEASE\_e.exe located in the Setup\FWuEASE\en directory of the Setup CD.

After that, follow the instructions given by the setup program.

By default, these will install the software into \Program files\U8Dev directory and create Start|Programs|U8 Tools menu. U8 Tools menu contains sub menu uEASE. uEASE menu contains the short-cut to FWuEASE software and the short-cut to the manuals for uEASE.

#### (3) Installing the Multiple Flash Writer for uEASE (MWuEASE)

Run SetupMWuEASE\_e.exe located in the Setup\MWuEASE\en directory of the Setup CD.

After that, follow the instructions given by the setup program.

By default, these will install the software into \Program files\U8Dev directory and create Start|Programs|U8 Tools menu. U8 Tools menu contains sub menu uEASE. uEASE menu contains the short-cut to MWuEASE software and the short-cut to the manuals for uEASE.

#### (4) Installing the Device Information Files (If you do not use the devices, you do not need to install the files)

Notes: The Device Information Files are used for setting up the above tools (the U8 Development Tools software / FWuEASE). So install the Device Information Files, after installing the above tools (1), (2). If you do not install according to the order, the installation may not be correctly.

Run SetupDevInfo\_e.exe located in the Setup\U8DevTools\en directory of the Setup CD.

After that, follow the instructions given by the setup program.

By default, these will install the device information files into \Program files\U8Dev directory.

## (5) Installing the USB driver for uEASE

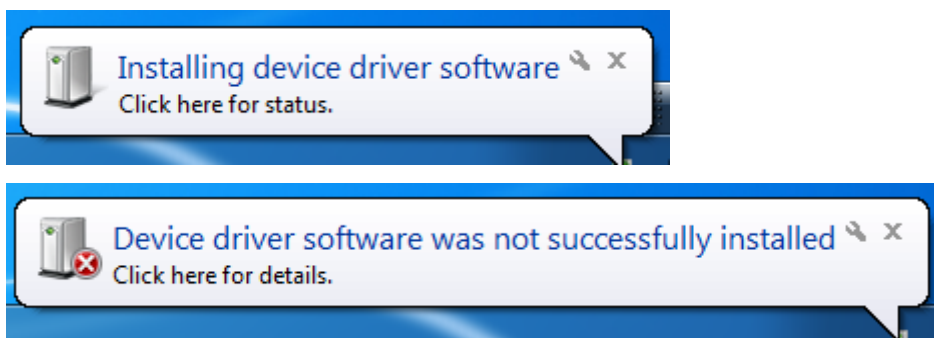
When the uEASE or nanoEASE, Dr.U8 ICE, Dr.U16 ICE, Dr.ICE is connected to a PC for the first time, installation of the USB driver starts automatically.

When the USB driver is installed already, you can skip this step.

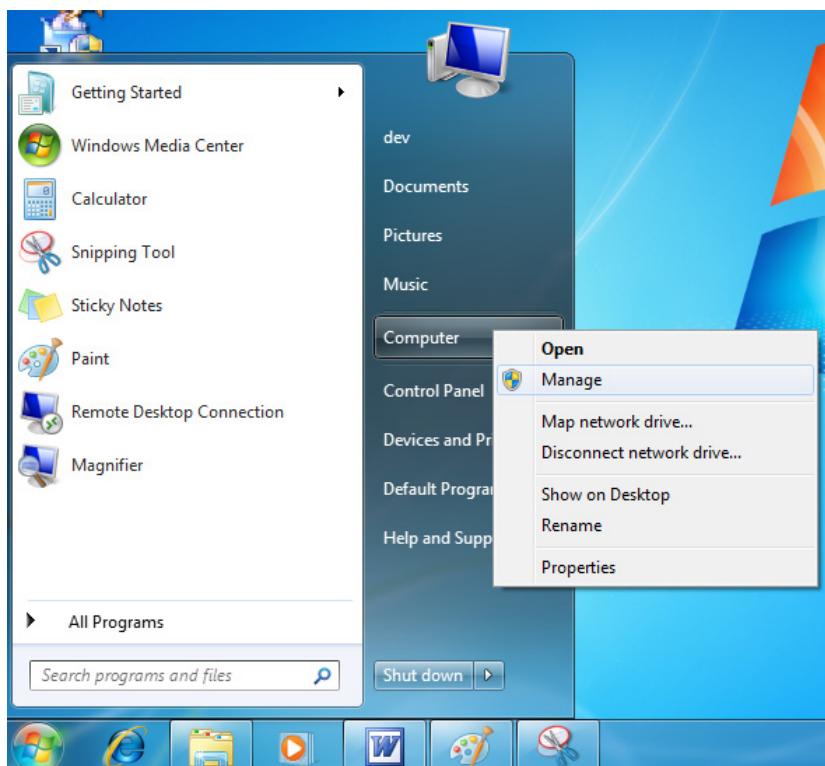
In this section, it introduces the example of installation on Windows 7 and Vista. However the displayed messages may be different from this document by the difference of environment of your computer. Then, please install the driver according to actual message of your computer.

### (5)-1 Installing the USB driver on Windows 7.

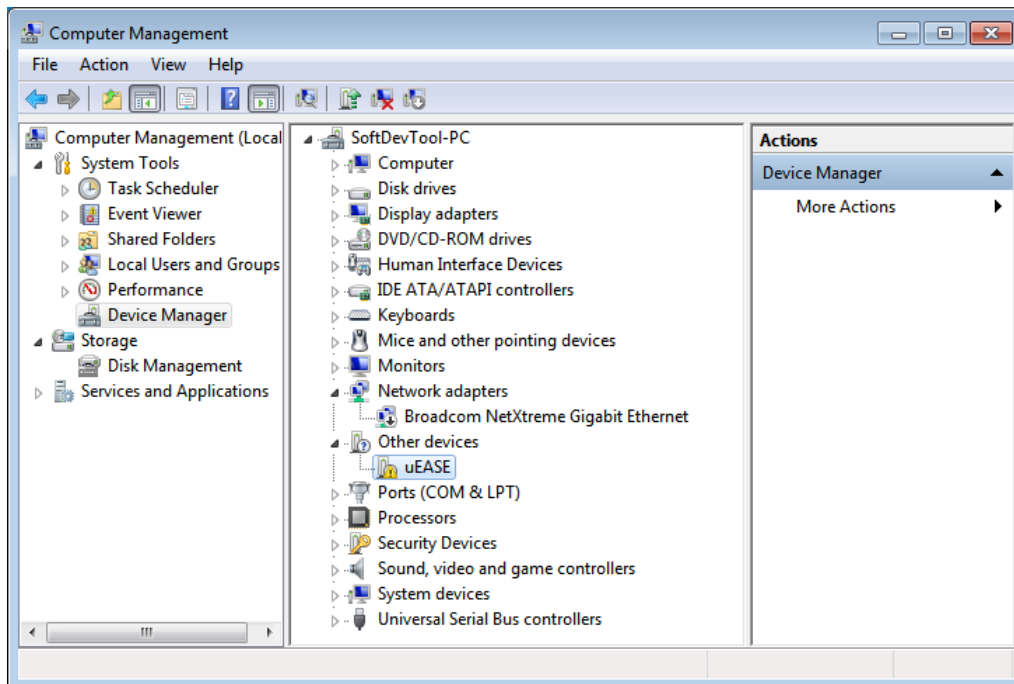
(1) When the uEASE is connected to a PC for the first time, the following messages will be displayed.



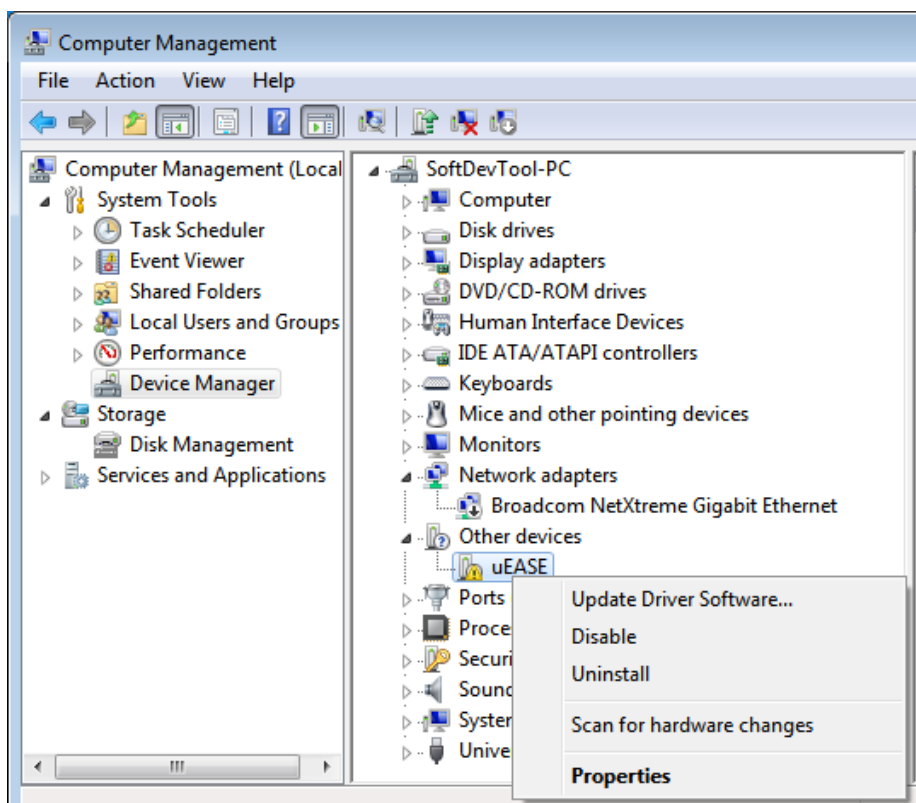
(2) Open [Start] menu, select [Manage] of the context menu on [Computer].



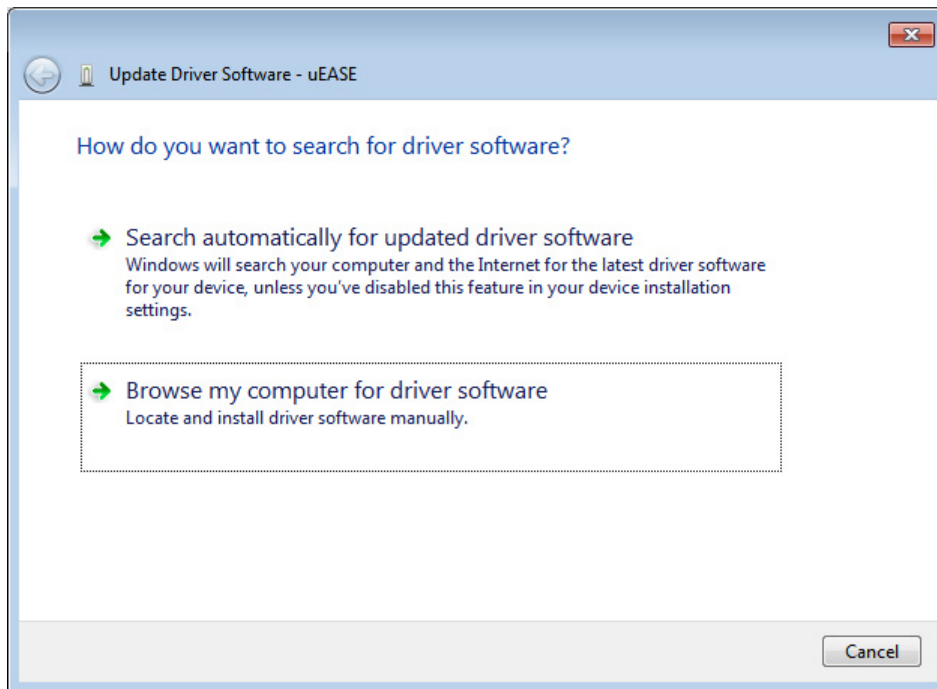
- (3) Click the [Device Manager] on [Computer Management] dialog. Then, the device list of your computer will be displayed (The contents of the device list on your computer will be different from this document).



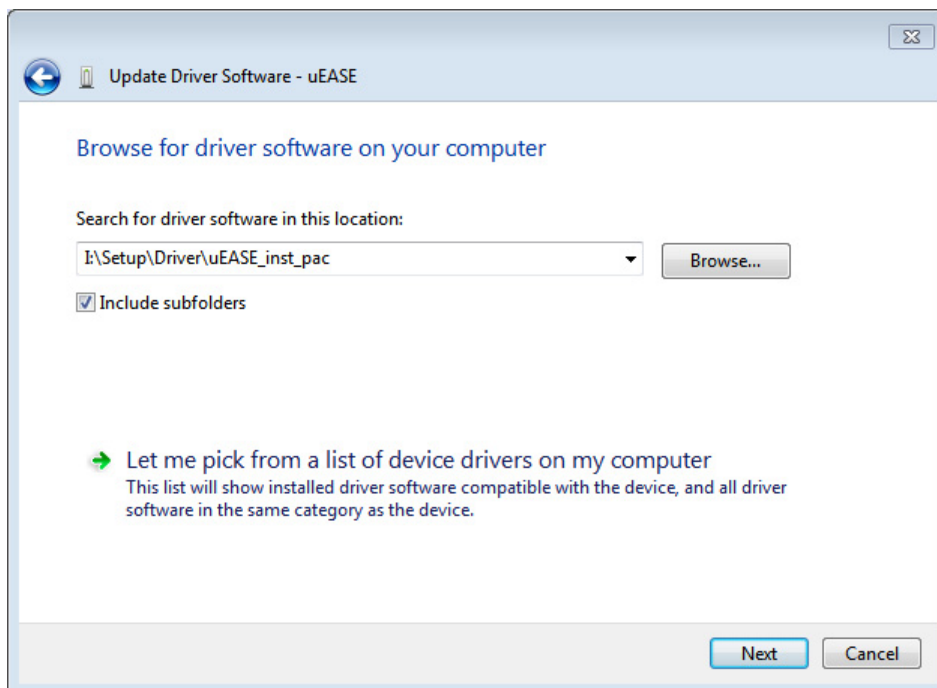
- (4) uEASE will be displayed with attention mark. Then select [Update Driver Software...] on the context menu of uEASE.



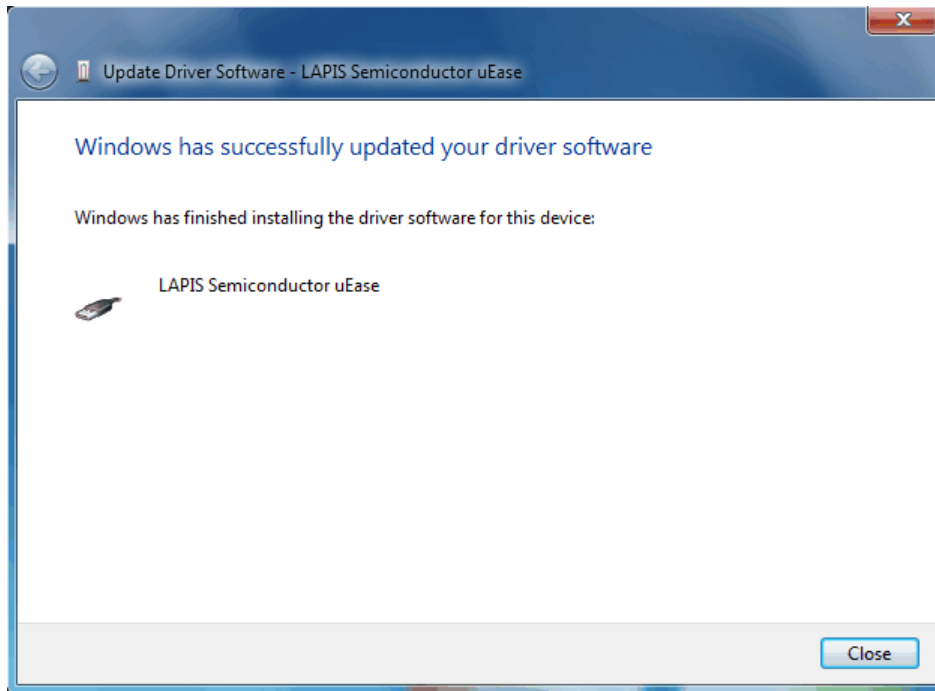
(5) The following dialog will be displayed. Then Select [Browse my computer for driver software].



(6) Insert the install CD-ROM in the CD-ROM drive. And specify Setup\Driver\uEASE folder, then click the [Next] button.



- (7) The dialog for confirming installation will be displayed. Then click the [Install] button.  
The following dialog will be displayed when installation is successful.



## 6. Uninstallation

Uninstallation should select the following programs from “Add or Remove Programs” of Control Panel.

- U8 Development Tools software: LAPIS Semiconductor U8 Development Tools
- Flash Writer for uEASE: LAPIS Semiconductor FWuEASE Flash Writer
- Multiple Flash Writer for uEASE: LAPIS Semiconductor MWuEASE Multiple Flash Writer
- U8 Device Information Files: LAPIS Semiconductor U8 Device Information Files

If any additional files have been copied to the installation folder, it is possible that a mere uninstallation through Add or Remove Programs cannot delete every file of the Development Tools. In that case, delete the installation folder manually.

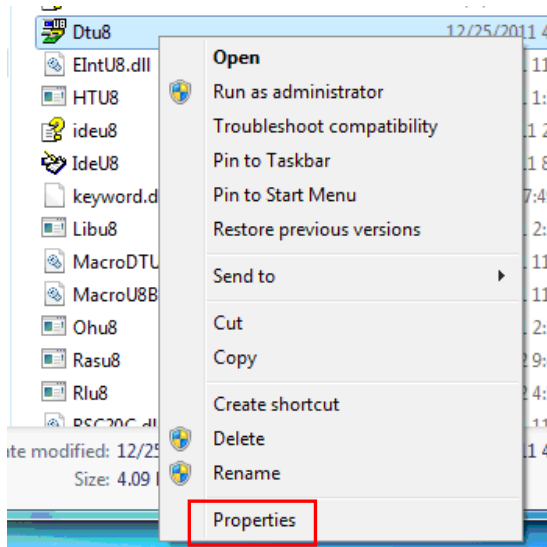


## 7. Note

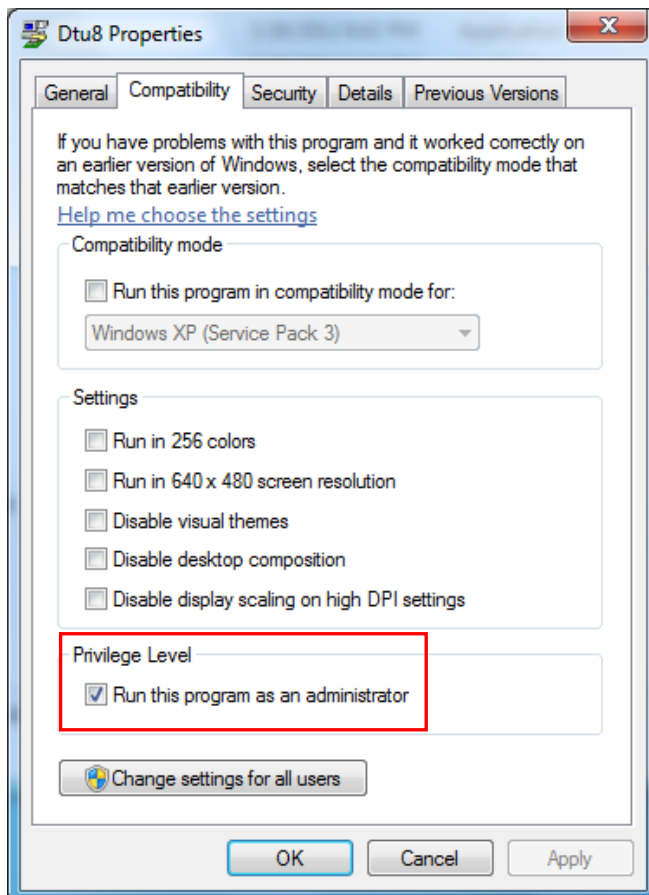
### 7.1 Note on Windows Vista and 7

**Please log on with an administrator account when you use U8 Development Tools on Windows Vista or 7. And, please set up a privilege level to DTU8 Debugger in the following procedures after installation.**

- (1) Open [Start] menu, select [Computer].
- (2) Display “C:\Program Files\U8dev\Bin” folder (on 32bit windows) or “C:\Program Files (x86)\U8dev\Bin” folder (on 64bit windows). Then select [Property] on the context menu on DTU8.exe.



- (3) Check [Run this program as an administrator] of [Privilege Level].

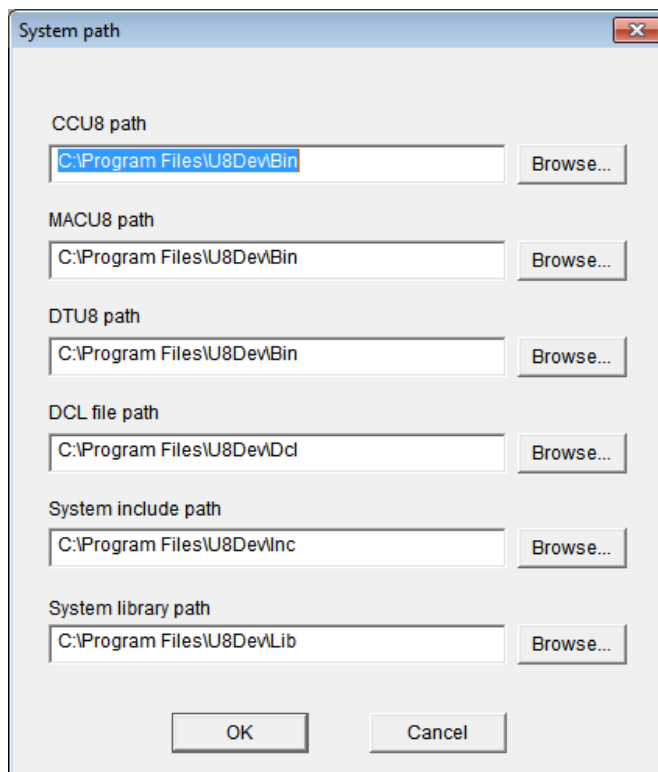


## 7.2 Note on 64bit version of Windows

### 7.2.1 Change of the system path of IDEU8

When the IDEU8 is invoked for the first time, the following dialog for setting system path will be displayed.

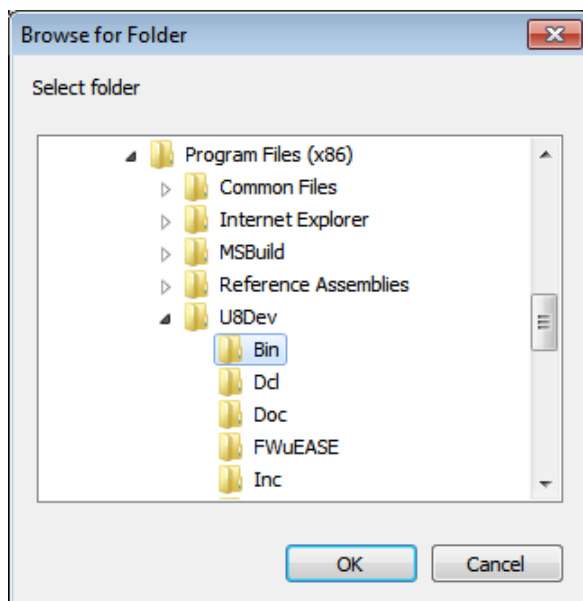
When you use the U8 Development Tools software on 64bit Windows Vista or 64bit Windows 7, the system path will be different from the path which installed U8 Development Tools software by default. If you use without changing the system path, U8 Development Tools will not work correctly. So, please set the system path according to the following procedure.



(1) Click [Browse...] button and display the [Browse for Folder] dialog.

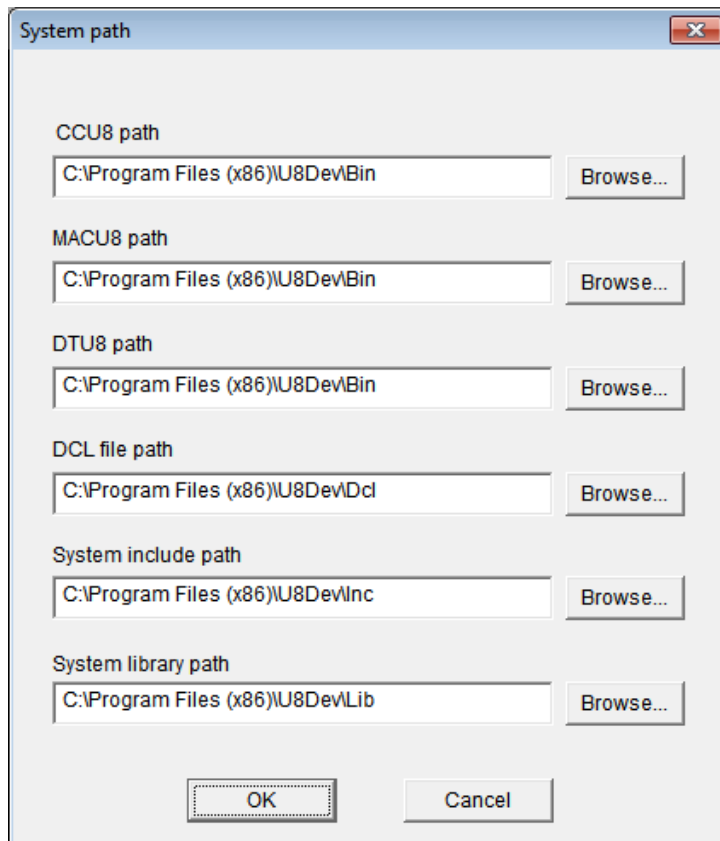
On 64bit Windows Vista or 64bit Windows 7, U8 Development Tools are installed in the following folder by default.

C:\Program Files (x86)\U8Dev



(2) Select folder which installed the U8 Development Tools software.

- CCU8 path: C:\Program Files (x86)\U8Dev\Bin
- MACU8 path: C:\Program Files (x86)\U8Dev\Bin
- DTU8 path: C:\Program Files (x86)\U8Dev\Bin
- DCL path: C:\Program Files (x86)\U8Dev\Dcl
- System include path: C:\Program Files (x86)\U8Dev\Inc
- System library path: C:\Program Files (x86)\U8Dev\Lib



(3) Click the [OK] button.

### 7.2.2 The notes about the folder of the project file for IDEU8

When the project file for IDEU8 and its folder contain a space character and a 2-byte character, IDEU8 cannot be accessed to the file on the 64-bit version of Windows Vista and Windows 7.

Please put a project file on the folder which contains neither a space character nor a 2-byte character.

### 7.2.3 Common use of the project file for IDEU8 by a 64-bit version of Windows and a 32-bit version of Windows

When sharing the project file for IDEU8 by a 64-bit version of Windows and a 32-bit version of Windows, since the file in system folders, such as a start-up file, is not found, an error may happen. Copy such a file to the folder of a project file, and add the file to a project.

### 7.3 About the difference from the checksum value of HTU8 to output

At the following LSI, the checksum value of the file which HTU8 outputted differs from the checksum value outputted when MWuEASE reads the file.

ML610Q101/Q102

ML610Q111/Q112

ML610Q355/Q356/Q359/Q360

ML610401/402/403/404/405/406/Q407/Q408/Q409

ML610Q426/Q426C

ML610Q471/Q472/Q473/Q474/Q475/Q476/Q477/Q478/Q479

ML610Q413

At the above-mentioned LSI, in order to make the same the checksum value which HTU8 and MWuEASE output, please specify a **/NM** option at HTU8 and output a file.

The example of description is shown below.

HTU8 hexfile.hex /Tml610101 /NM

### 7.4 Notes of the account name when logon

Don't log on using the account name containing '**&**'.