USB CDC release note

SiM3U1xx USB CDC code base on LUFA open source project, released under the permissive MIT License. /*

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*/

1. Code directory structure

```
$(USB CDC)\src\generated\*
                                      --- SiM3U1xx device driver files
$(USB_CDC)\src\VirtualSerial\*
                                      --- Virtual serial descriptors, main function and CDC_ACM.inf
$(USB_CDC)\src\LUFA\*
                                      --- LUFA USB stack lib
                                      --- USB stack common definition files.
$(USB CDC)\src\LUFA\Common\*
$(USB_CDC)\src\LUFA\Drivers\Misc\* --- Ring buffer definition
$(USB CDC)\src\LUFA\Drivers\USB\Core\*
                                                     --- Standard USB core function files
$(USB_CDC)\src\LUFA\Drivers\USB\Core\SIM3U\*
                                                     --- SiM3U1xx related USB registers operation
$(USB CDC)\src\LUFA\Drivers\USB\Class\Device\*
                                                     --- All device USB class files
$(USB CDC)\src\LUFA\Drivers\USB\Class\Host\*
                                                     --- All host USB class files
$(USB CDC)\src\LUFA\Drivers\USB\Class\Common\*
                                                     --- USB stack common files
```

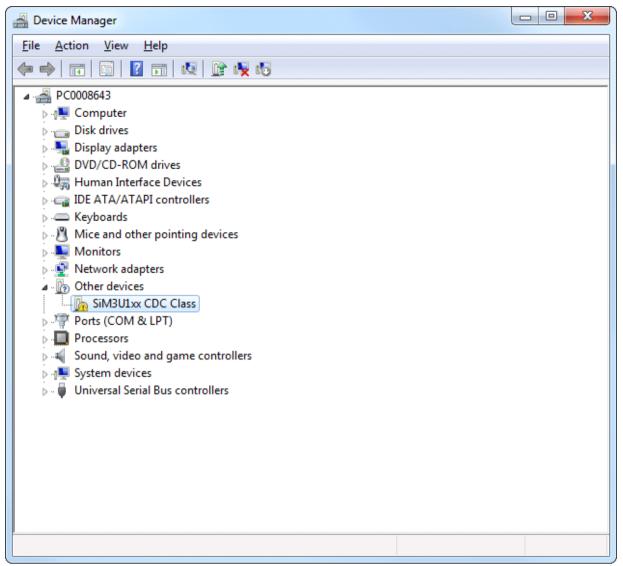
2. Download Preceision32 from Silabs web site

This make sure Silabs SDK was downloaded and for project build. http://www.silabs.com/products/mcu/Pages/32-bit-mcu-software.aspx#download

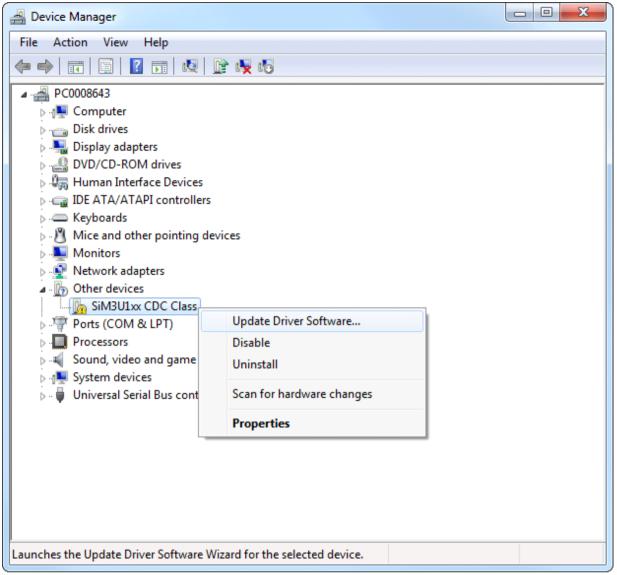
- 3. For IAR user, there are two packages need to copy into IAR directory.

 Extract Extract_to_arm_config_debugger_Silabs.zip and Extract_to_armconfig_flashloader_Silabs.zip into C:\Program Files\IAR Systems\Embedded Workbench 6.4\arm\config\debugger and C:\Program Files\IAR Systems\Embedded Workbench 6.4\arm\config\flashloader\

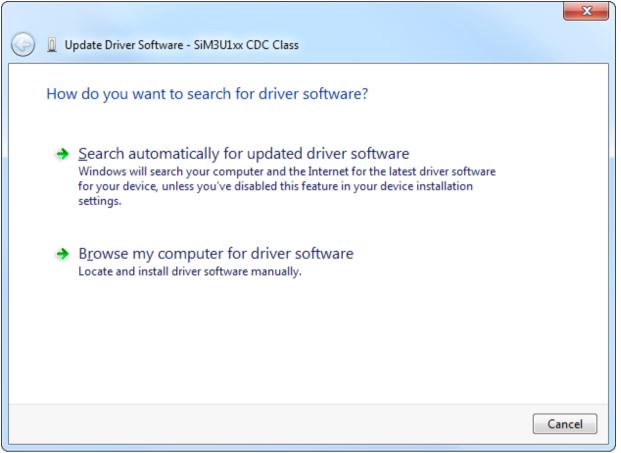
 Replace \$(SI32_PATH)\si32-1.1.1\si32Hal\CPU\cmsis_iar.h with C:\Program Files\IAR Systems\Embedded Workbench 6.4\arm\inc\c\cmsis_iar.h
- 4. Build the project and download firmware to the SiM3U1xx MCU card
- 5. Connect the USB cable between the Device USB connector (J13) and the PC.
- 6. Open Device Manager. The device will appear under Other devices as the SiM3U1xx CDC Class device.



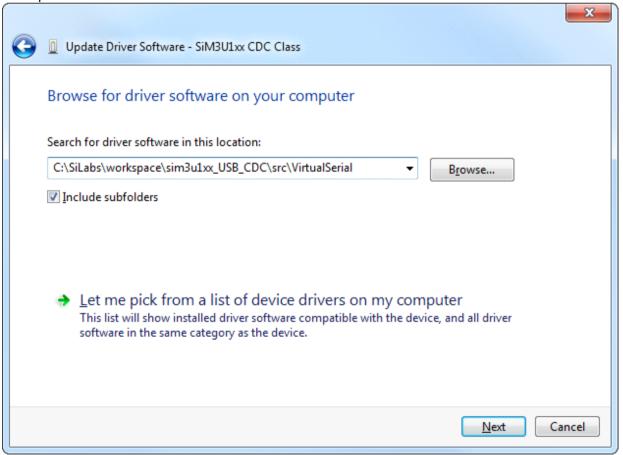
7. Right-click on the SiM3U1xx CDC Class device and select Update Driver Software



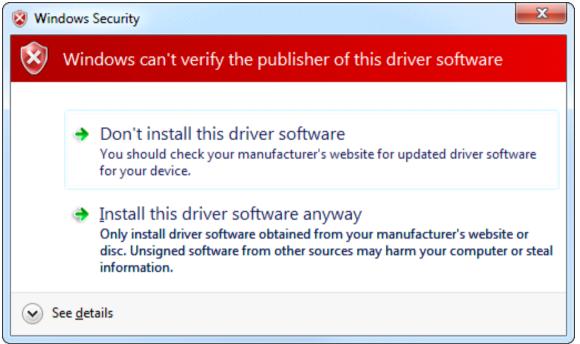
8. Select Browse my computer for driver software



9. Enter the directory path of the CDC_ACM.inf file (AN758_USB_CDC\src\VirtualSerial directory). If the Include subfolders option is checked, entering the main sim3u1xx_USB_CDC directory in the workspace is sufficient.



10. Windows will display a warning. Select Install this driver software anyway



- 11. When the driver finishes installing, Windows will report the installation results
- 12. Open Device Manager and observe the device. It will now appear under Ports (COM & LPT) with an assigned COM port number.

