

## Chapter 11: bugs and clarifications

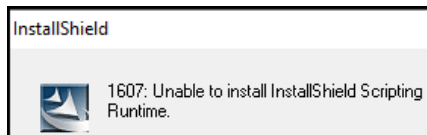
12/4/2021

- 1 Section: Unde
- 2 Section: Intro
- 3 Section: Devel
- 4 Section: Usin

### Chapter 11: Sharing Hardware Peripherals across Tasks (pg 289)

#### 1 Section: Understanding shared peripherals (pg 290)

- **Bug in the book**, page 290
  - The "STM USB virtual COM port drivers" do not need to be installed on Windows 10.
  - Also, when I tried to install them on Windows 10, I got this error:



- The STM documentation states, "*Starting from Windows 10, the STSW-STM32102 driver is no more adequate and the usage of the native inbox driver is recommended.*" Apparently, this means that the driver isn't needed, and the COM port will work without the STM driver.  
[https://www.st.com/content/my\\_st\\_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-utilities/stsw-stm32102.license=1638205298464.product=STSW-STM32102.version=1.5.0.html#documentation](https://www.st.com/content/my_st_com/en/products/development-tools/software-development-tools/stm32-software-development-tools/stm32-utilities/stsw-stm32102.license=1638205298464.product=STSW-STM32102.version=1.5.0.html#documentation)
    - Additional info:  
<https://community.st.com/s/question/0D53W00000BtJkK/stm32f078-usb-connection-to-windows-10-reports-there-are-no-compatible-drivers-the-stm-website-says-starting-from-windows-10-the-stswstm32102-driver-is-no-more-adequate-and-the-usage-of-the-native-inbox-driver-is-recommended>
- **Tip**, page 290,
  - When I clicked on the Tera Term installer, it took quite a while before getting the first installation GUI. Initially, I mistakenly thought the installer didn't run when I clicked on it.
- **Additional info**, page 291
  - **USB CDC** is the *USB communications device class*.
  - [https://en.wikipedia.org/wiki/USB\\_communications\\_device\\_class](https://en.wikipedia.org/wiki/USB_communications_device_class)
    - "The device attaches to an RS-232 communications line and the operating system on the USB side makes the USB device appear as a traditional RS-232 port."

#### 2 Section: Introducing the STM USB driver stack (pg 292)

- **Additional info**, page 292
    - Info about STM32CubeMX:
      - [https://www.freertos.org/FreeRTOS-Plus/BSP\\_Solutions/ST/STM32CubeMX.html](https://www.freertos.org/FreeRTOS-Plus/BSP_Solutions/ST/STM32CubeMX.html)
  - **Additional info**, pages 294f
    - Programs for Chapter 11
      - mainRawCDC.c
- ```
Chapter_11\Src\mainRawCDC.c
    mainUsbStreamBuffer.c
Chapter_11\Src\mainUsbStreamBuffer.c
Drivers\HandsOnRTOS\VirtualCommDriver.c
Drivers\HandsOnRTOS\VirtualCommDriver.h
Middleware\ST\STM32_USB_Device_Library\Class\CDC\Src\usbd_cdc.c
    mainUsbStreamBufferMultiTask.c
Chapter_11\Src\mainUsbStreamBufferMultiTask.c
Drivers\HandsOnRTOS\VirtualCommDriverMultiTask.c
Drivers\HandsOnRTOS\VirtualCommDriverMultiTask.h
Middleware\ST\STM32_USB_Device_Library\Class\CDC\Src\usbd_cdc.c
```
- **Additional info**, page 294
    - In the IDE, some files are greyed and have a strike through them. This indicates they are not included in the current build configuration.
    - The screen shot below shows an example. The active build configuration is rawCDC and