

How to update the OS for the Mobile Logger using the SESlogger software for PC

Preparation Stage

Complete the following 4 preparation steps (if not done so before):

1) Download the latest OS file (*.ino.mega.hex) from

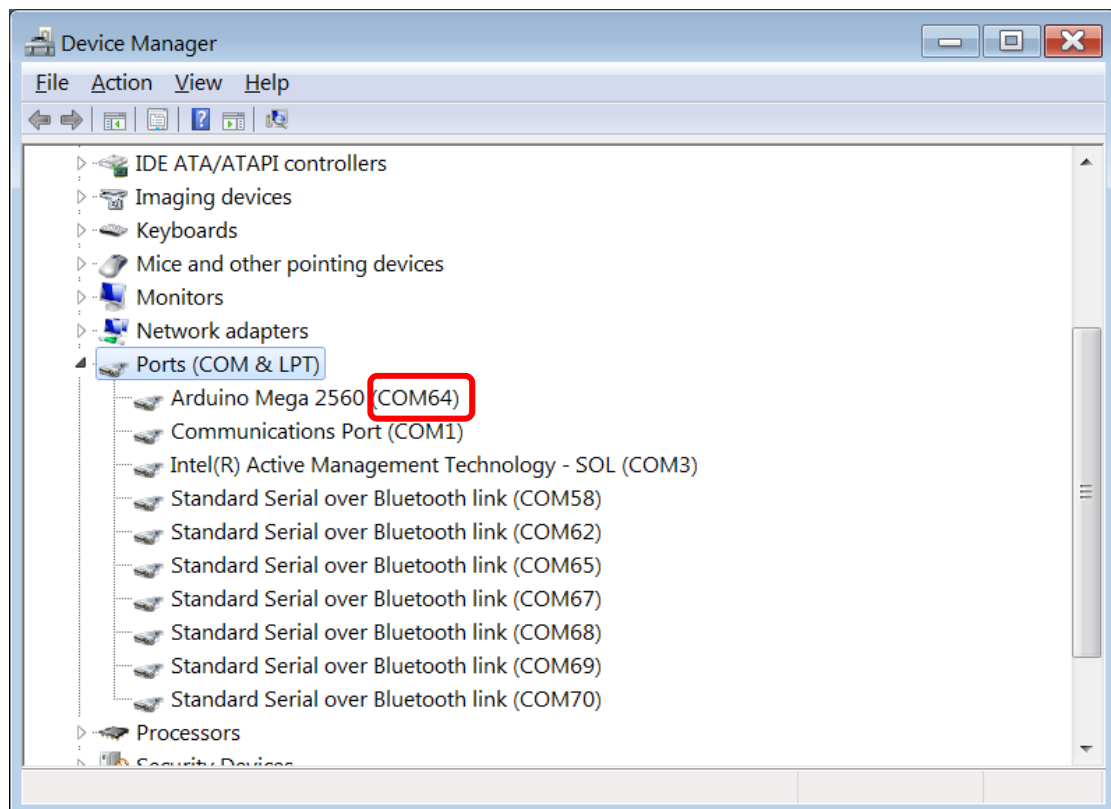
<http://has.eduhk.hk/seslogger/>

(under the section **Update of Operating System for the mobile logger**). You should not install the file called *.ino.with_bootloader.mega.hex unless the bootloader in your Arduino board is corrupted.

2) Use an USB type A/B cable to connect the mobile logger with your computer.

3) Locate the com port number for the Arduino Mega 2540 in your computer by the following path:

Windows → Control Panel → Device Manager → Ports (COM & LPT)



In the present case, the com port is **COM64**.

Remark: In Linux system, you may show the port by issuing the following command in a terminal:

```
ls -la /dev/tty*
```

The port should be either `ttyACM*` or `ttyUSB*` and you need to enable an access right of Write to it by:

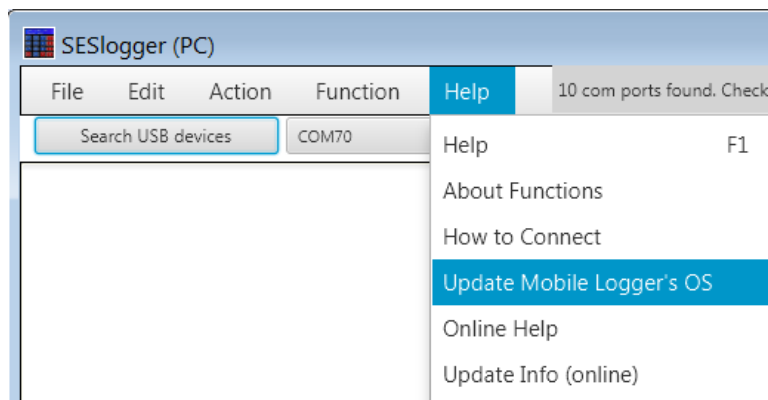
`sudo chmod a+rw /dev/ttyACM*`

- 4) If not done before, download and install the Arduino IDE software for developer from

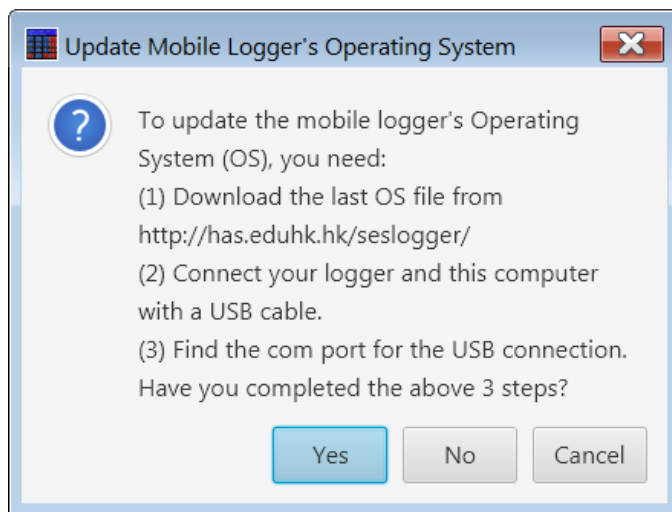
<https://www.arduino.cc/>

Steps for burning the OS into the Mobile Logger

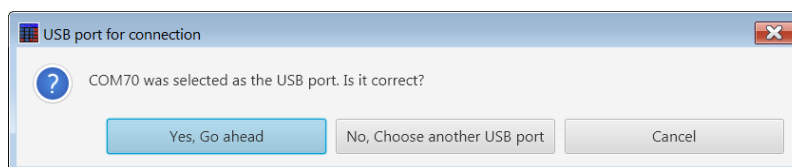
- 1) In the menu for the SESlogger for PC software, select Help → Update Mobile Logger's OS



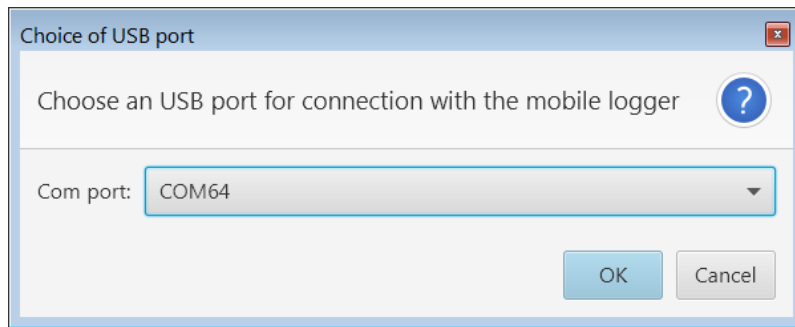
- a) Click the Yes button in the below pop-up window.



- b) If the com port shown below is incorrect, click the No button below.

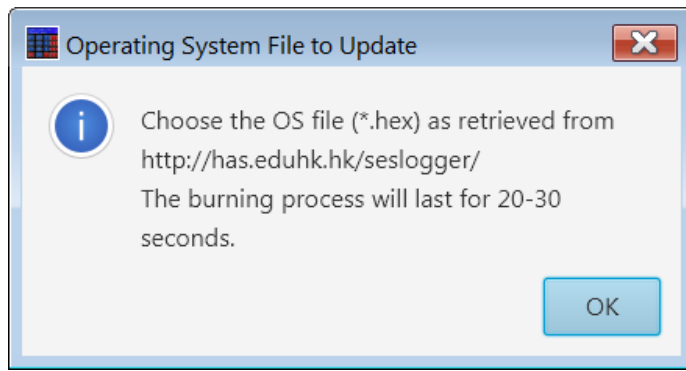


- c) Select the correct com port and then press the Yes button.

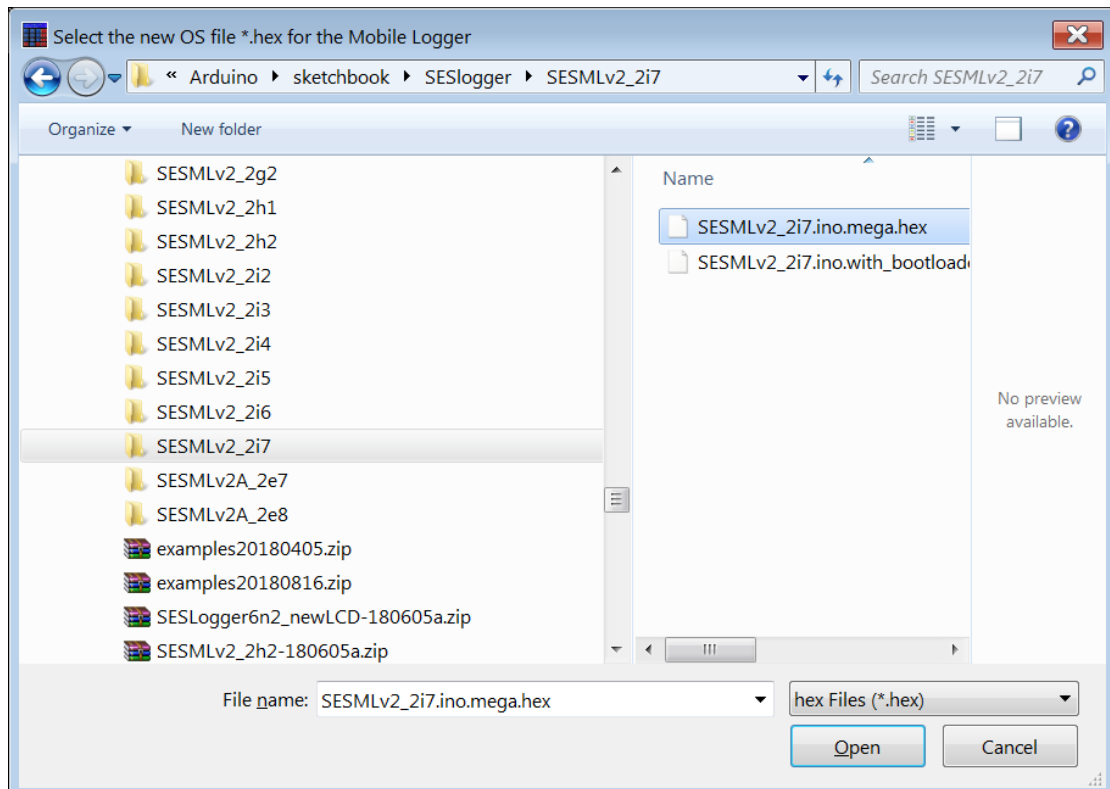


Remark: For the first time use of this function, you will be asked to locate the **arduino.exe** file which is usually placed at **c:\Program Files (x86)\Arduino**

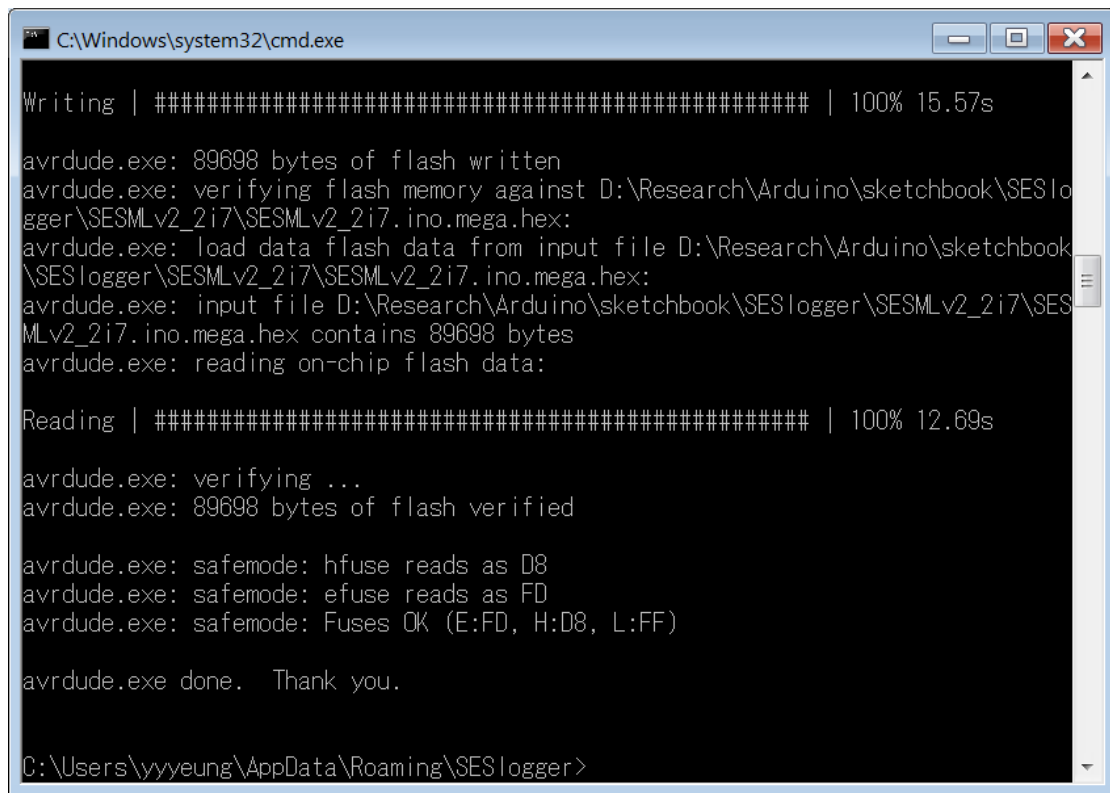
d) *Click OK button.*



e) *Locate the place for the most updated *.ino.mega.hex file and press the Open button.*



f) When you see the “Thank you” in the cmd.exe window below, the installation is successful and you may close the window.



```
C:\Windows\system32\cmd.exe
Writing | ##### | 100% 15.57s
avrdude.exe: 89698 bytes of flash written
avrdude.exe: verifying flash memory against D:\Research\Arduino\sketchbook\SESlogger\SESMLv2_2i7\SESMLv2_2i7.ino.mega.hex:
avrdude.exe: load data flash data from input file D:\Research\Arduino\sketchbook\SESlogger\SESMLv2_2i7\SESMLv2_2i7.ino.mega.hex:
avrdude.exe: input file D:\Research\Arduino\sketchbook\SESlogger\SESMLv2_2i7\SESMLv2_2i7.ino.mega.hex contains 89698 bytes
avrdude.exe: reading on-chip flash data:

Reading | ##### | 100% 12.69s
avrdude.exe: verifying ...
avrdude.exe: 89698 bytes of flash verified

avrdude.exe: safemode: hfuse reads as D8
avrdude.exe: safemode: efuse reads as FD
avrdude.exe: safemode: Fuses OK (E:FD, H:D8, L:FF)

avrdude.exe done. Thank you.

C:\Users\yyyeung\AppData\Roaming\SESlogger>
```