How to update the OS for the Mobile Logger using the SESlogger software for <u>PC</u>

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 \rightarrow Control Panel \rightarrow Device Manager \rightarrow 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 ether 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

 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.

Choice of USE	3 port	×
Choose ar	n USB port for connection with the mobile logger	?
Com port:	COM64	•
	ОК	Cancel

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.

I Select the new OS file *.hex for the Mobile Logger								
COC Arduino > sketchbook > SESlogger > SESMLv2_2i7 + 4 Search SESMLv2_2i7								
Organize 🔻 New folder					• • •			
 SESMLv2_2g2 SESMLv2_2h1 SESMLv2_2h2 SESMLv2_2i2 SESMLv2_2i3 SESMLv2_2i3 SESMLv2_2i4 SESMLv2_2i5 SESMLv2_2i6 SESMLv2_2i6 SESMLv2_2i7 SESMLv2_2i7 SESMLv2_2e7 SESMLv2A_2e8 examples2018040 examples2018081 SESLogger6n2_net SESMLv2_2h2-180 	5.zip 6.zip wLCD-180605a.zip)605a.zip		Name SESMLv2_ SESMLv2_	2i7.ino.mega.hex 2i7.ino.with_bootloa	No preview available.			
File <u>n</u> ame:	SESMLv2_2i7.ino.mega.hex		•	hex Files (*.hex) <u>O</u> pen	Cancel			

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	X
Writing ###################################	^
avrdude.exe: 89698 bytes of flash written avrdude.exe: verifying flash memory against D:\Research\Arduino\sketchbook\SESI gger\SESMLv2_2i7\SESMLv2_2i7.ino.mega.hex: avrdude.exe: load data flash data from input file D:\Research\Arduino\sketchboo \SESlogger\SESMLv2_2i7\SESMLv2_2i7.ino.mega.hex: avrdude.exe: input file D:\Research\Arduino\sketchbook\SESlogger\SESMLv2_2i7\SE MLv2_2i7.ino.mega.hex contains 89698 bytes avrdude.exe: reading on-chip flash data:	o k S
Reading ###################################	
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>	Ŧ