

Nancy

## ① Check if they updated the Firmware

↳ If not, it has to be done.

Marco Accame will provide assistance (in vacation Mon-Tue)  
Valentina Gaggero " " " "

## ② Update Firmware

→ [github.com/robotology/RA/issues/240](https://github.com/robotology/RA/issues/240) : How to update your robot to use 1.8.0  
guide to migrate to latest icub release (applies to CAN and ETH robots)

### ②.1 On server computer : pull repositories {1- yarp /master and compile {2- icub-main /master

On icub-head/pc104 : 1- pull yarp, icub-main, icub-firmware-shared,

2- compile yarp

3- compile icub-firmware-shared : `cd build-pc104 ...`

4- " icub-main " " " " "

5- Install robot-configuration files + instructions at .../robot-config

⑥ Firmware update of ETH/CAN boards → instructions  
icub-firmware-build/FirmwareUpdater/readme.quick.txt

Firmware update uses FirmwareUpdater (From icub-main/master)

6.a Power on motors

b FirmwareUpdater GUI

Find FirmwareUpdate.ini (should be installed with robots-configuration)

Select ETH device. Click discover to find available boards  
→ A list of boards appear

c Select an EMS board. (Can view (on side) board properties (running/idle etc)

Click ☒ to select all boards of the same type

d. click Force ETH maintenance

e. Select all boards in maintenance.

Click Upload application → load the ems.hex file (in robot-configuration?)

f. Select board → check in Board Properties panel if correct Firmware version

g. Select all boards of type ☒

Click Force ETH application (send them in application state = re-start application  
equivalent of power off. power on. motors)

h. Done. Quit.

## ③ Use FirmwareUpdater For debugging a board which is not responding with <sup>yarprobotinterface</sup>

a. Search board. See if it finds it.

b. Ping board → if it replies → is yarprobotinterface crashed?  
(not found) does not reply → is a cable loose? not well connected?

c. Click restart board (in magic state w/ more buttons). <sup>FirmwareUpdater</sup>  
check console → debug info on silence time, timeout, etc. <sub>-- admin</sub>

ISSUE TO OPEN

6b (Note: robot-config does not install FirmwareUpdate.ini (check cmake <sup>list</sup> file)