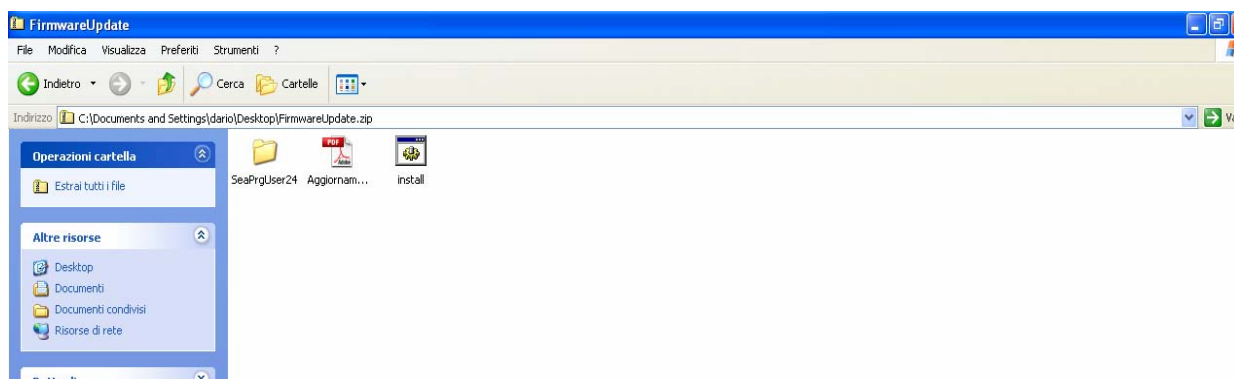


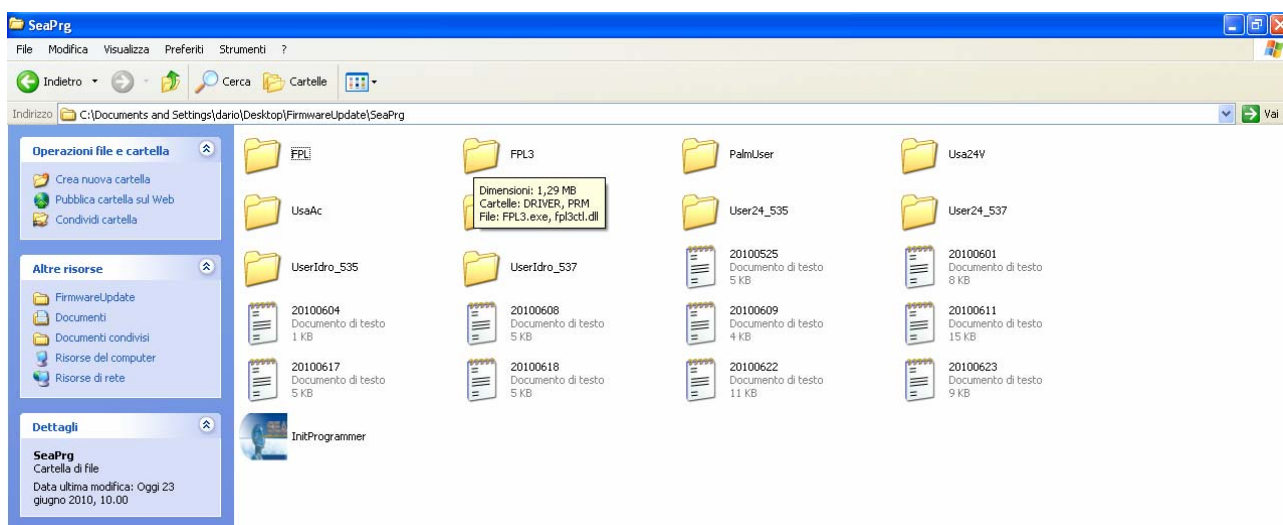
ENGLISH

Procedure for USER control units software and JOLLY programmer updating through the OPEN programmer

- 1) It is necessary to execute the programs as a user with administrator privileges of the PC; otherwise, it is not possible to change some of the configuration files.
- 2) The customer must have the Firmware Update software that may be present on the installation CD or on the SEA website (www.seateam.com).
- 3) The folder contains a file named install. bat, a folder named SeaPrgUser24 and a PDF with these instructions.



- 4) Inside the SeaPrgUser24 folder, you will find the file for the execution of the InitProgrammer and all the folders containing the software updates of the control units.



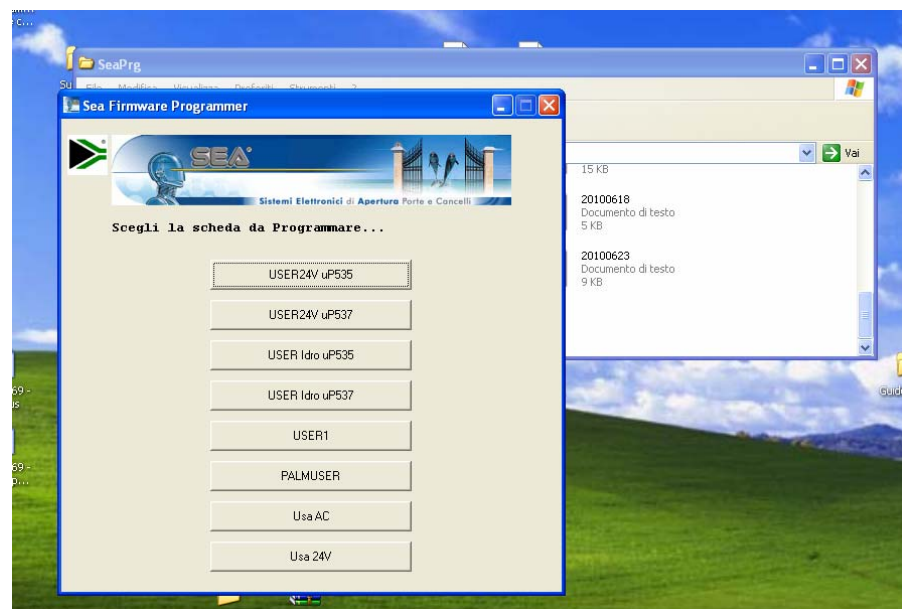
5) The procedure to install the firmware update has to be executed only at the first installation of the Firmware Update, and is:

- Connect the OPEN programmer
- Switch on the programmer
- Open the firmware update folder
- Double-click the file "Install" and wait for the end of the operations.

6) The procedure to update the firmware of the device is as follows:

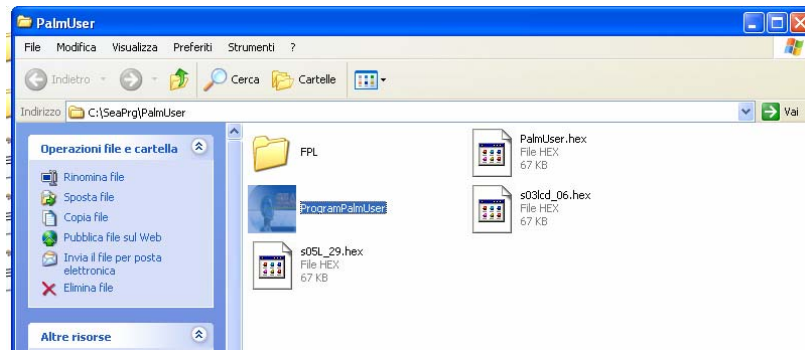
Note: The USER2 control unit must be powered.

- Open the SEAPRG folder
- Double-click the InitProgrammer file
- The following screen appears:

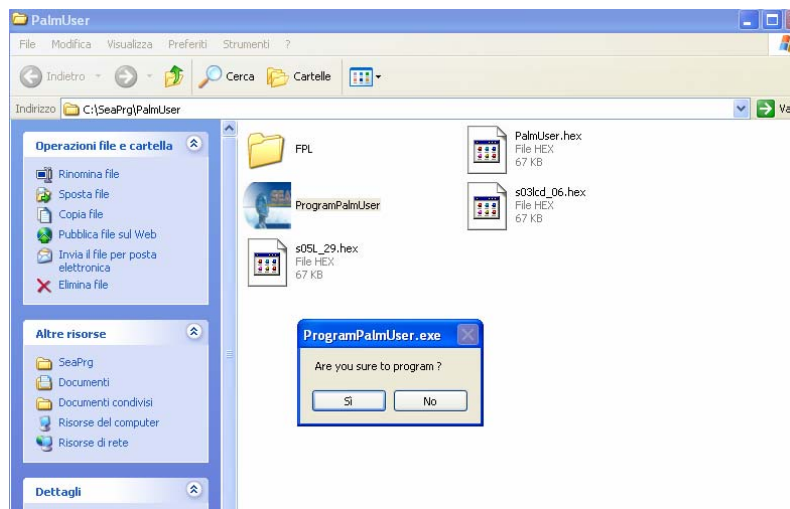


- Now, click on the control unit type to be updated, observing attentively the sticker indicating the type of microprocessor and wait for the recognition of the programmer, if it is not found, switch off and on again the programmer and repeat the procedure starting from step 6.
If it still does not work, check if the programmer is connected and recognized on a specific COM port.

- The following window will appear:



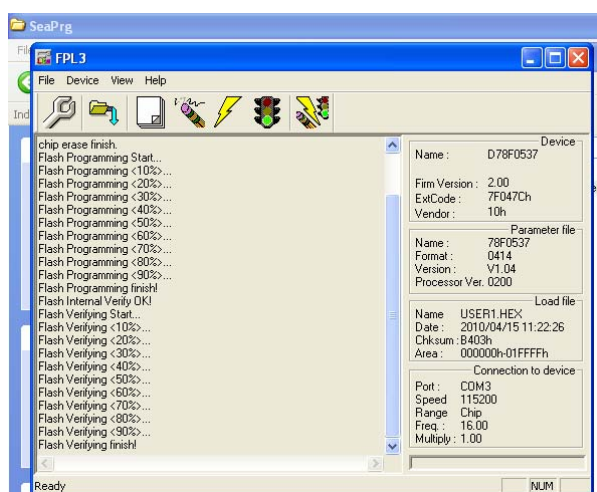
- Double-click the file with ".exe" extension
- You will be asked if you are sure whether to start programming, using the following window:



- Connect the 10 pin plug (Male) of the OPEN programmer with the device to be programmed, as shown in the figure (with the side connector always on your left side):



- Click on "yes" and wait for the end of the procedure.
- The procedure will be completed when the following image appears and when on the last line of programming will appear "Flash verifying finish":



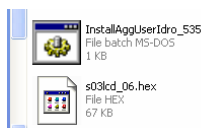
If the programming is not successful, check the previous steps, or verify that the firmware version of the processor is compatible with the one of the microprocessor which has to be updated.

Note: If it is not possible to do the programming on the Jolly device, repeat the above steps and re-program the Open programmer keeping power supplied the Jolly device through a User1 24V, User2 24V or a User Hidro.

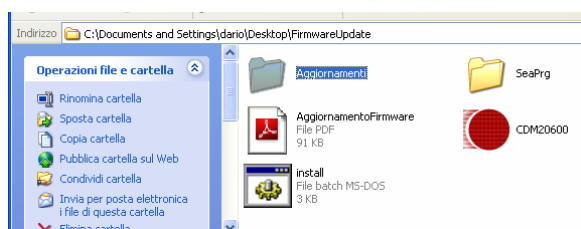
Updating through files downloaded from www.seateam.com site

Note: This procedure has to be executed only if your firmware update contains software with .hex extension with updating, preceding the one, to be downloaded from the site.

1. The files will be transferred to the site, one with extension. hex and the other with extension. batch, as shown in the figure:



These files must be copied into the updates folder, in place of those already existing.



2. Now, it needs to access the resources of the computer in C: and to remove the SeaPrg folder.
3. The deleted SeaPrg folder, will be, automatically recreated, when re-launching the install.batch file, which is present in the Firmware Update folder.
4. At this point, the updating is completed.

Note: If you are not yet registered to access the above mentioned procedures, please register yourself on the site www.seateam.com following the specific steps on the Home Page of the site.