

# "HS+FS firmware update" operating instructions

## Run firmware update via the serial cable

### Requirements

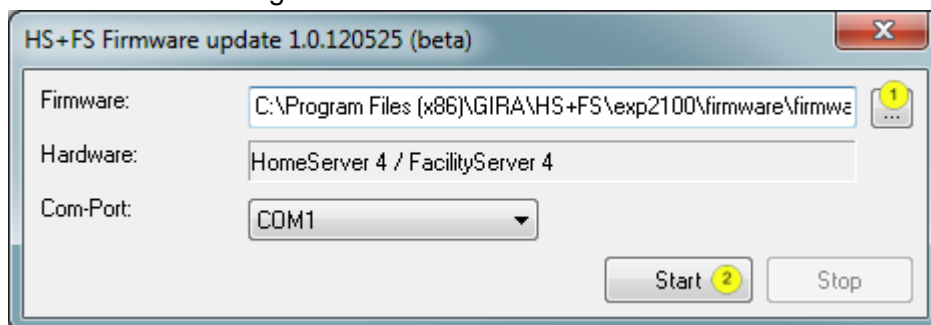
- Expert v2.10 (or higher) has been installed
- A serial cable (9-pole)
- Windows XP or a newer Windows operating system

### Notes

- From Expert / firmware v2.10 the program must be used if you want to transfer the firmware to an HS/FS via a serial cable
- Older firmware versions can also be transferred to corresponding HS/FS via a serial cable with this program

### Procedure

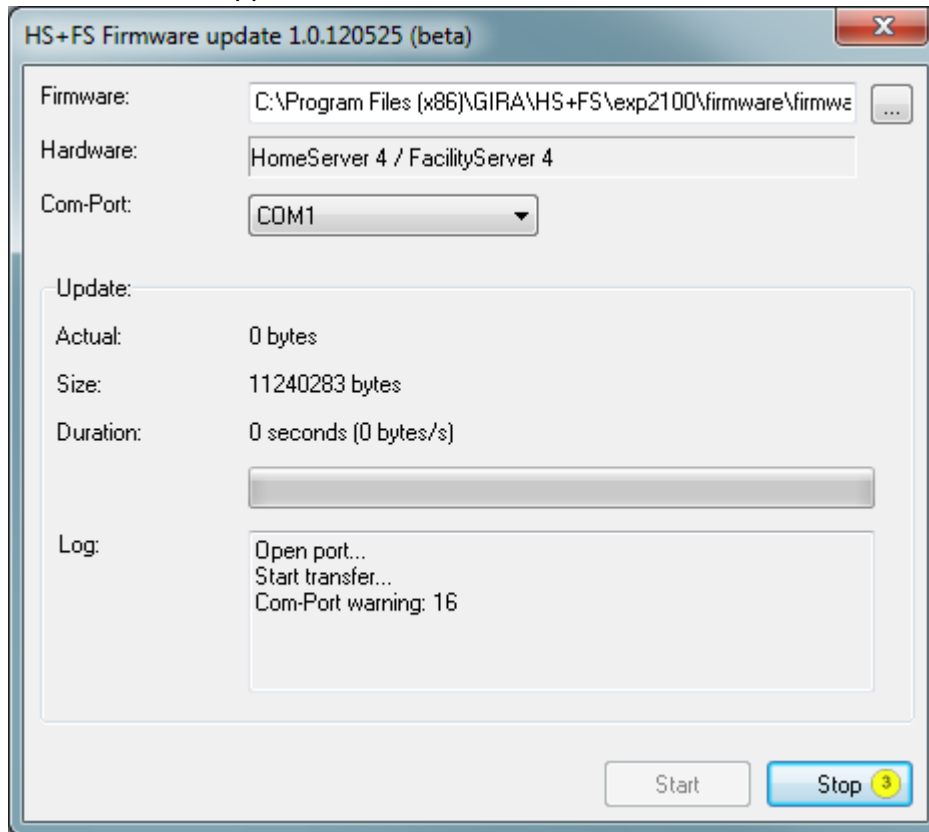
1. Recommended: Back up the retentive data of the HS/FS.
2. Switch the HS/FS OFF.
3. Connect your PC to the HS/FS using a serial cable.
4. Start the "HS+FS firmware update" program (fwupdate.exe).  
Note: This can be found in the start menu of the HS/FS Expert (from v2.10) in the "Tools" category.
5. You see the following user interface:



6. Click on the button 1.
7. Select the desired firmware file (usually "firmware.dat").  
Note: You will find the current firmware in the Expert subdirectory "Firmware".
8. The program shows the complete path to the selected firmware in the "Firmware" field.
9. The program recognises the hardware type which the selected firmware is intended for and indicates it in the "Hardware" field.
10. Ensure that the firmware which you want to transfer has the hardware type which is suitable for the connected HS/FS.
11. Select the COM port where you have connected the serial port to your PC (normally it is COM1).
12. Click on the button 2.

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13. New information appears on the user interface:



*Actual:* The current number of bytes already transferred to the HS/FS Bytes  
*Size:* The total number of bytes to be transferred to the HS/FS  
*Duration:* The previous duration of the transfer and the average transfer rate  
*Log:* Status information

14. Switch the HS/FS ON.

15. The transfer begins after a few seconds.

16. You can cancel the transfer at any time by clicking the button  (Not recommended).

17. Now close the "HS+FS firmware update" program.

18. You can now remove the serial cable.

## Notes

- After the transfer ends, the HS/FS automatically restarts.
- As soon as the HS/FS has restarted and is ready for operation, this is signified by three double peeps.
- The program must be closed and restarted between two firmware transfers via the serial port.