


Hacousto Holland bv Industrieweg 87 2651BC Berkel & Rodenrijs		
USB bootloader firmware update instructions	Author:	DD
	Design revision:	1.0

SUMMARY

This document describes how to flash new firmware into the hardware with the USB-bootloader.

REVISION AND APPROVAL

Rev.	Date	Nature of Changes	Approved By
01	18-12-2019	Original draft	DD
02	11-06-2020	Corrections	TvdH
03	04-07-2022	Expander added to the document	AJH



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1. What do you need in order to update 4EVAC firmware of devices running USB bootloader?


- a Windows computer;
- USB A-B (printer cable) and USB A-miniB (mini USB cable);
- 4EVAC firmware package (downloads available on website);

2. Compact 500

1. Make sure the Compact is powered.
2. Connect your computer to the USB port on the mainboard (USB type B socket).
3. Press and hold the "PROG" button on the mainboard.
4. While holding the "PROG" button down, hit the "RESET" button.
5. The new flash storage should appear in Windows Explorer (4EVAC C500)
6. Locate the new firmware file in the "Binaries" folder ("C500 Main Board Rev ****.bin")
7. Optionally, make a backup copy of the original firmware.
8. Delete the "firmware.bin" from the 4EVAC C500 storage
9. Copy the new firmware to the 4EVAC C500 storage.
10. Power down, then power up the unit.
11. DONE! The Compact is running new firmware now! You may disconnect the USB cable.
12. Remember to prepare the new config file in the 4EVAC manager GUI. As this new software supports new features, it also needs a configuration file with new settings. Otherwise the new firmware will not recognize the old settings saved on the SD card and will result in a memory fault (causing system fault).

3. Impact Controller

1. Power off the CONTROLLER by removing the DC-plug
2. Connect your Windows PC to the CONTROLLER with the USB cable (USB type B socket)..
3. Locate the CAL button on the back of the CONTROLLER
4. Press and hold the CAL button and apply POWER (DC-plug)
5. Release all buttons.
6. The CONTROLLER will appear in your Windows as a removable storage device "4EVAC C500" (like a USB disk drive).
7. Open the "4EVAC C500" storage in the explorer (or any file manager)
8. Delete the existing "firmware.bin" file. (NOTE: before deleting you might want to back up the existing firmware file, we always recommend to do this. You can rename the backup file whatever you want.)
9. Copy the new firmware *.bin file from the source destination to the empty "4EVAC C500" storage.
10. Reset the system by power-down/power-up or RESET button at the back or soft- reset from the front.
11. DONE!

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- Remember to prepare the new config file in 4EVAC manager GUI. As the new software supports new features, it also needs a configuration file with new settings. Otherwise the new firmware will not recognize the old settings saved on the SD card and result in a memory fault (causing system fault).

4. Impact Expander


- Power off the EXPANDER by removing the DC-plug
- Connect your Windows PC to the EXPANDER with the USB cable (USB type B socket)..
- The CONTROLLER will appear in your Windows as a removable storage device "4EVAC C500" (like a USB disk drive).
- Open the "4EVAC C500" storage in the explorer (or any file manager)
- Delete the existing "firmware.bin" file. (NOTE: before deleting you might want to back up the existing firmware file, we always recommend to do this. You can rename the backup file whatever you want.)
- Copy the new firmware *.bin file from the source destination to the empty "4EVAC C500" storage.
- Reset the system by power-down/power-up or RESET button at the back or soft- reset from the front.
- DONE!
- Remember to prepare the new config file in 4EVAC manager GUI. As the new software supports new features, it also needs a configuration file with new settings. Otherwise the new firmware will not recognize the old settings saved on the SD card and result in a memory fault (causing system fault).

5. L-Net devices

- Disconnect the device from any cables.
- In case of SW6: Press and hold the button on the SW6 (blue button next to the network port).
- Connect your computer to the mini USB port the on the device (USB-miniUSB cable)
- New flash drive should appear in the Windows Explorer (4EVAC C500)
- Locate the new firmware file in the "Binaries" folder ("*device_name* Rev ****.bin"). Make sure you pick the firmware for the right device.
- Optionally make a backup copy of the original firmware.
- Delete the "firmware.bin" from the 4EVAC C500 storage
- Copy the new firmware to the 4EVAC C500 storage.
- Disconnect the USB cable.
- Connect the device to the L-Net of the Compact 500 or the Impact Controller. The device is running on the new firmware now!


6. DCA2.500 (IMPACT amplifier)

- Power the amplifier off (switch off both mains and battery);

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2. Connect the amplifier to your computer using USB cable ;
3. Power the amplifier on;
4. Device should be recognized by Windows as Mass Storage Device (similar to flash USB stick) and appear in Windows Explorer as new drive "4EVAC C500";
5. Find the existing "firmware.bin" file in the "4EVAC C500" folder (this is the old firmware). Make a backup copy! (You may rename the backup file);
6. Delete the "firmware.bin" from the "4EVAC C500" folder;
7. Copy the new *.bin file to the "4EVAC C500" folder. Make sure you're using the firmware for this device;
8. Unplug the USB;
9. Power down / power up;
10. DONE! The device is running on the new firmware now.

After all the amps are flashed and running, power-cycle the Impact Controller and press the CAL button again on the Impact controller in order to set up the AMP LINK.

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M A D E I N T H E N E T H E R L A N D S

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