

FAQ GMSplus Firmware Upgrade

1. Introduction

- This procedure describes how to upgrade the firmware on your GMSplus.

2. Required Tools

- GMSplus you want to upgrade
- Firmware file (.gsfw)
- Computer with access to GMSplus

3. Preliminary Checks

- Make sure GMSplus is connected to AC power and its internal main battery is fully charged
- Check the SOH (State of Health) information and make sure the backup battery voltage shows at least 3.0V
See FAQ's Maintenance Guideline for more information
- Check the version of the currently installed firmware and make sure that the first two digits correspond to the standard version **21.xx.xx**.
http://www.geosig.com/files/FAQ_GMSplus_How_to_Check_Firmware_Version.pdf
If it shows other than **21.xx.xx**, contact GeoSIG support for information on the latest version for your instrument.

4. Download latest Firmware for GMSplus

- On GeoSIG Website, under **Support -> Downloads**, you can find the latest firmware of GMSplus for download:
<https://www.geosig.com/Downloads-pg37.aspx>

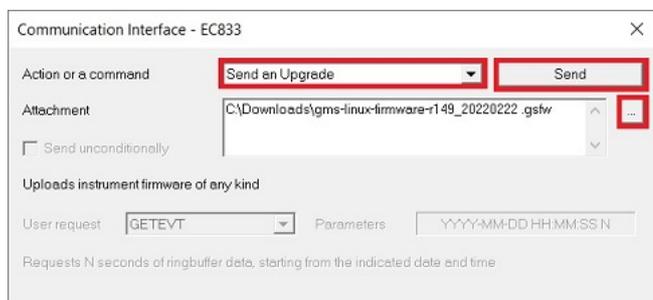
Description	Important Notes and Instructions	Download
GMSplus	1) This container contains the standard instrument firmwares only for GMSplus series instruments. In case of project specific firmwares with an armdas version other than 21.xx.xx contact us for details. 2) IMPORTANT Firmware releases "rootfs-gms-79" and lower must be upgraded in two steps: First to the release rootfs-gms-80 and then to the newest release. 3) Firmware releases "rootfs-gms-80" (instruments manufactured after September 2013) and higher can be upgraded directly to the newest release.	<div style="border: 2px solid red; padding: 2px; display: inline-block;">firmware r149</div>

5. Upgrade Firmware

- The firmware can either be upgraded from GeoDAS (**5.1**), through the webinterface (**5.2**) or by putting the file on the SD-card (**5.3**)

5.1 Upgrade from GeoDAS

- In GeoDAS window **Stations: General Information**, right-click on the station and choose **Instrument Control... -> Send an Upgrade**
Click the button [...] to browse to the firmware file (.gsfw) and send the file to the GMSplus clicking the button **[Send]**



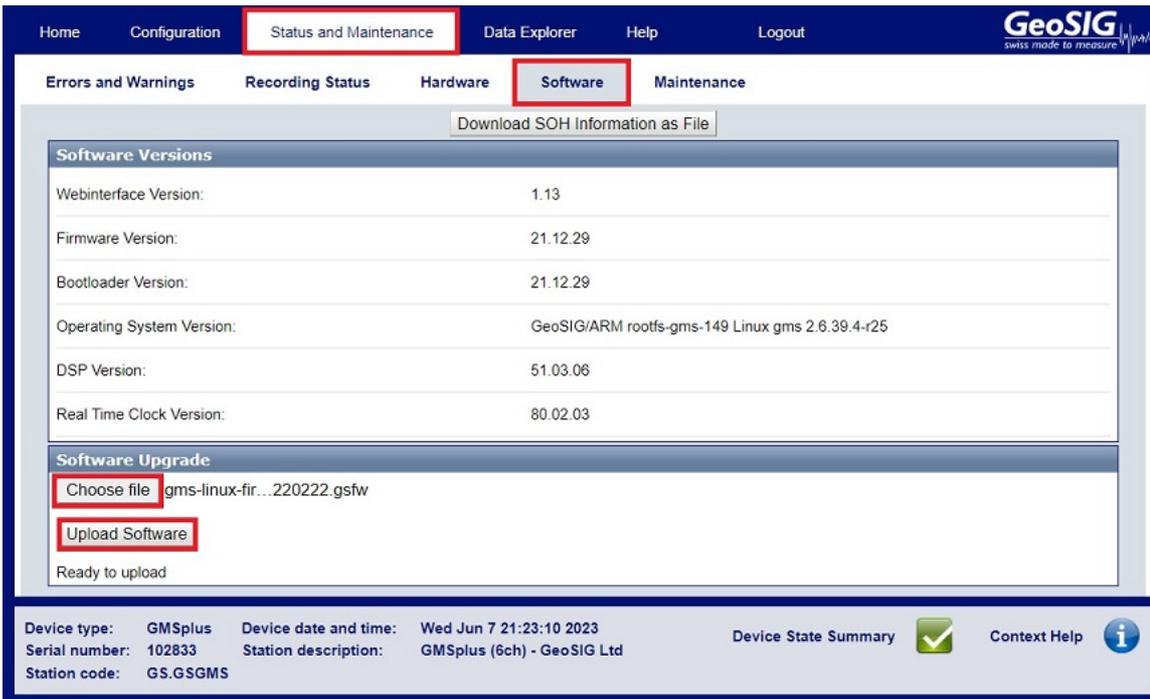
- GMSplus may restart several times during the upgrade, do not interrupt this process!
- If the upgrade has finished, check the firmware version again to confirm the latest version is installed (see step 3.)

5.2 Upgrade from Webinterface

- Open your webbrowser, enter the IP address of your GMSplus and login as admin (default password 123456)



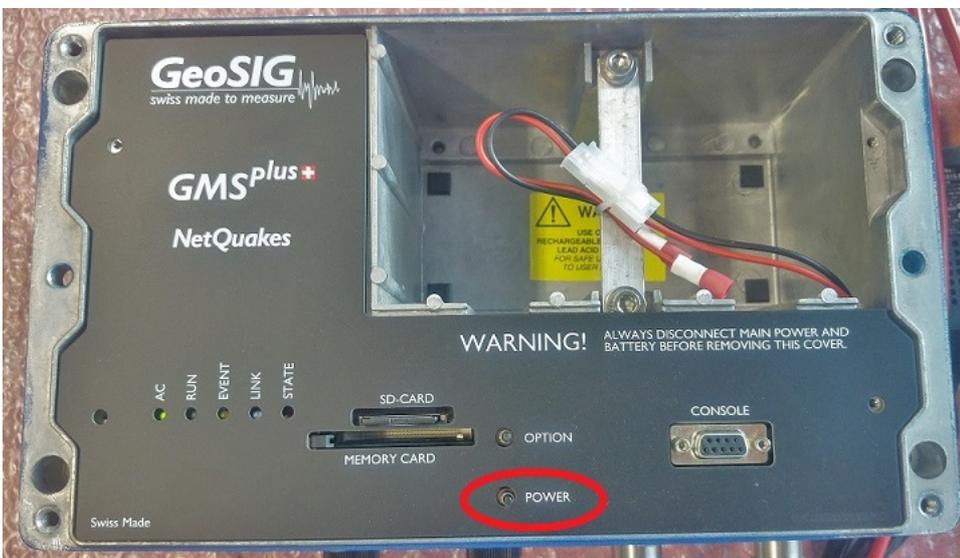
- Choose tab **Status and Maintenance** -> **Software**
- Click the button [**Choose file**] to browse to the firmware file (.gsw) and send the file to the GMSplus clicking the button [**Upload Software**]



- GMSplus may restart several times during the upgrade, do not interrupt this process!
- If the upgrade has finished, check the firmware version again to confirm the latest version is installed (see step 3.)

5.3 Upgrade from SD-Card

- Turn off the recorder by pressing the power button for 3 seconds



- Wait until the **RUN** LED stops flashing
- Remove the SD card from its slot (push to release)



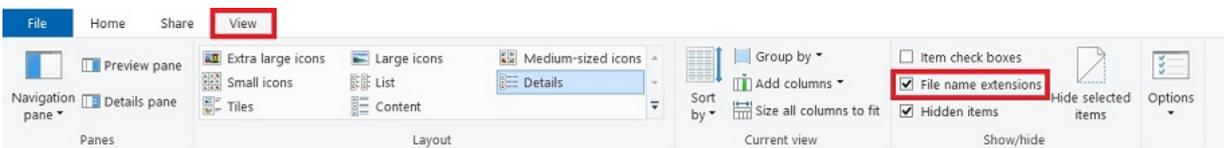
- Insert the SD card in your PC's card slot
- Windows cannot detect all partitions on the SD card, so it may ask you to format the card: **PLEASE DO NOT FORMAT THE CARD, OTHERWISE ALL RECORDED DATA WILL BE LOST!**



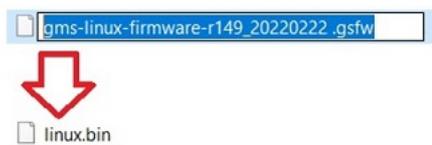
- Press **[Cancel]** if the above message appears
- The SD card should appear as drive named with the serial number of the recorder



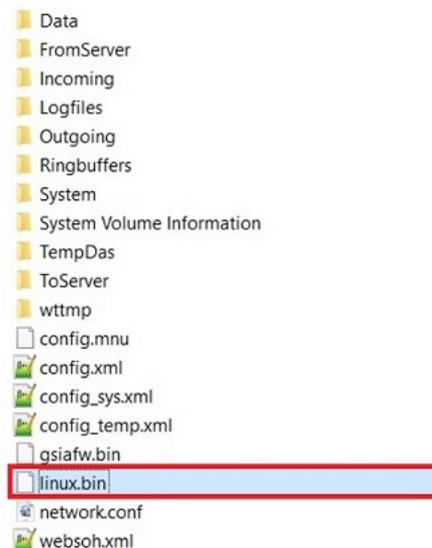
- It is not expected that data on the SD card is altered during the upgrade process – however, it is recommended to backup all data stored on the SD card before continuing with further steps.
- Make sure you have file extensions visible in your file explorer (**View** Tab -> Tick **File name extensions**)



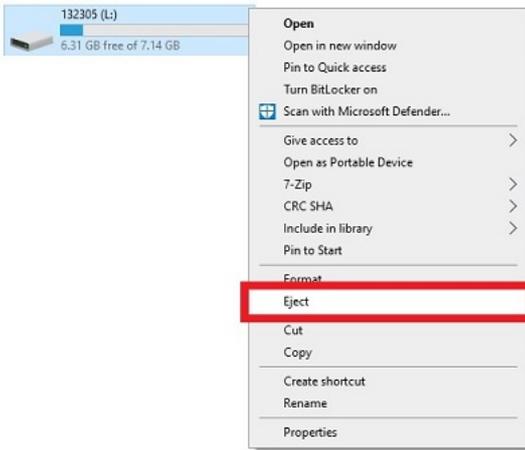
- Rename the downloaded firmware file from **gms-linux-firmware-rXXX_XXXXXXXX.gsfw** to **linux.bin**



- Copy the renamed file linux.bin to the SD card of the GMSplus



- Safely remove the drive (Right-click -> **Eject**)



- Insert the SD card back in the recorder's card slot and turn it on pressing the power button
 - GMSplus may restart several times during the upgrade, do not interrupt this process!
 - If the upgrade has finished, check the firmware version again to confirm the latest version is installed (see step 3.)
-