

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 t
- Check the version of the currently installed firmware and make sure that the first two digits correspond to the standard version 21.xx.xx. <u>http://www.geosig.com/files/FAQ_GMSplus_How_to_Check_Firmware_Version.pdf</u> 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: <u>https://www.geosig.com/Downloads-pg37.aspx</u>

Description	Important Notes and Instructions	Download
GMSPlus	 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. 	firmware r149
	2) IMPORTANT Firmware releases "rootfs-gms-79" and lower must be upgraded in two steps: First to the <u>release rootfs-gms-80</u> and then to the newest release.	
	 Firmware releases "rootfs-gms-80" (instruments manufactured after September 2013) and higher can be upgraded directly to the newest release. 	

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]

Action or a command		Send an Up	-	Send		
Attachment		C:\Dawnloads\gms-linux-timmware-r149_20220222 .gsfw				
- Send uncor	nditionally				~	
Jploads instru	ment firmware o	fany kind				
		*	Parameters	YYYY-MM-DD	HH:MM:SS N	
User request	GETEVT					

- 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)

G GeoSIG Ltd Web Interface × +	· _	×
← → C ▲ Not secure 192.168.100.12 •• 🖻 🖈	*	:
GeoSIG		
swiss made to measure		
Please fill in your Credentials:		
Username: admin		
Password:		
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4		•

Choose tab Status and Maintenance -> Software

• Click the button [Choose file] to browse to the firmware file (.gsfw) and send the file to the GMSplus clicking the button [Upload Software]

Home	Configuration	Status and Maintena	nce Data	Explorer	Help	Logout			- www.
Errors and	d Warnings	Recording Status	Hardware	Software	Maintenance				
			Downloa	ad SOH Inform	ation as File				
Softwa	re Versions			_				_	
Webinter	face Version:			1.13					
Firmware	Version:			21.12.29					
Bootload	er Version:			21.12.29					
Operatin	g System Version	:		GeoSIG/ARM	rootfs-gms-149 Linu	ux gms 2.6.39.4-r25			
DSP Ver	sion:			51.03.06					
Real Tim	e Clock Version:			80.02.03					
Softwa	re Upgrade								1
Choos	e file gms-linux	c-fir220222.gsfw							
Upload	Software								
Ready to	upload								
Device type: Serial numbe Station code	GMSplus r: 102833 : GS.GSGMS	Device date and time: Station description:	Wed Jun 7 21 GMSplus (6cl	l:23:10 2023 h) - GeoSIG Ltd	Dev	rice State Summary	C c	ontext Help	0

- 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)

rite	Home Share	view							
Navigation pane *	Preview pane Details pane Panes	Extra large icons Small icons	Large icons	K Medium-sized icons	÷ Sort by ▼	Group by • M Add columns • Size all columns to fit Current view	☐ Item check boxes ✓ File name extensions ✓ Hidden items Show/hide	Hide selected items	Options

• Rename the downloaded firmware file from gms-linux-firmware-rXXX_XXXXXX.gsfw to linux.bin



• 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.)