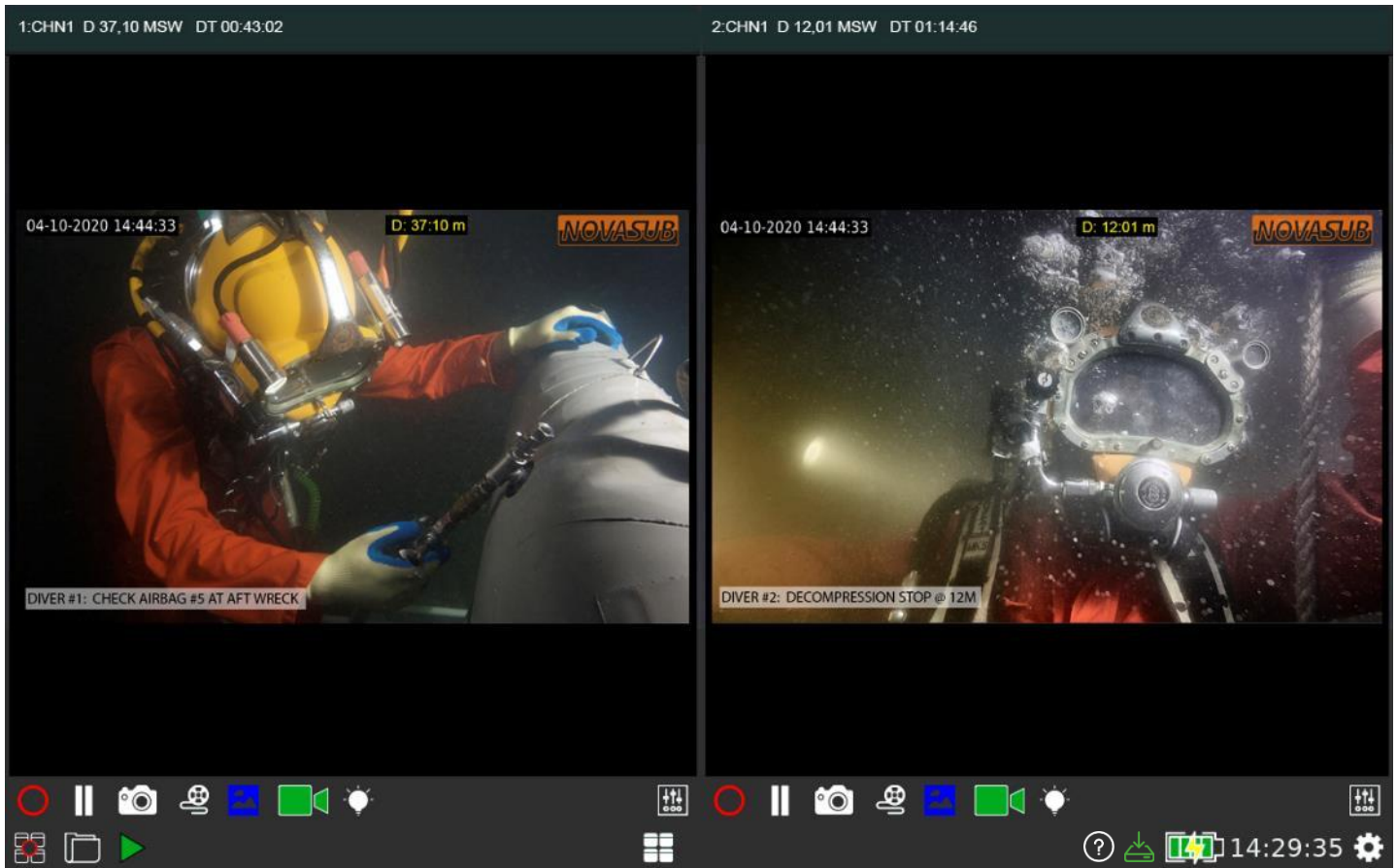




Updating Manual

DVR3 - Digital Video recorder

Video Viewing and recording software.

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1 Novasub DVR3 configurations

Novasub has different system configurations which have the DVR3 video recorder built in. Recently (from April 2021) these system configurations have names apart from their unique manufacturer part number (MPN) or stock keeping unit (SKU) code.

Below a list of the present system with their SKU code and name.

SKU / MPN	OS Update files to use	Name	Image
SCC-2DRVL-DSP-DVR G4.0.2	DVRG3-OS-Update_v1.12.tar	TRITON-C1	
SCC-2DRVL-DSP-DVR3 G4.1 SCC-2DRVL-DSP-DVR3 G4.2 SCC-2DRVL-DSP-DVR3 G4.3	DVRG3-OS-Update_v2.7.tar		
SCC-2DRHVL-DSP-DVR3 G4.2 SCC-2DRHVL-DSP-DVR3 G4.3	DVRG3-OS-Update_v2.7.tar		
SCC-M15.6-1VL-DVR3-1 M1.0 SCC-M15.6-2VL-DVR3-2 M1.0	DVRG3-OS-Update_v1.12.tar	THALLASA-C1	
SCC-M15.6-1VL-DVR3-1 G4.1 SCC-M15.6-2VL-DVR3-2 G4.1 SCC-M15.6-1VL-DVR3-1 G4.2 SCC-M15.6-2VL-DVR3-2 G4.2	DVRG3-OS-Update_v2.7.tar		
SCC-M15.6-1HVL-DVR3-1 G4.2 SCC-M15.6-2HVL-DVR3-2 G4.2	DVRG3-OS-Update_v2.7.tar		
SCCW-M15.6-1VL-DVR3-1 M1.0 SCCW-M15.6-2VL-DVR3-2 M1.0	DVRG3-OS-Update_v1.12.tar	THALLASA-W1	
SCCW-M15.6-1VL-DVR3-1 G4.1 SCCW-M15.6-2VL-DVR3-2 G4.1	DVRG3-OS-Update_v2.7.tar		
SCCW-2DRVL-DSP-DVR3-2DDG G4.0.2	DVRG3-OS-Update_v1.12.tar	ALPHEUS-W1	

SCCW-2DRVL-DSP-DVR3-2DDG G4.1 SCCW-2DRVL-DSP-DVR3-2DDG G4.2 SCCW-2DRVL-DSP-DVR3-2DDG G4.3	DVRG3-OS-Update_v2.7.tar		
SCCW-2DRHVL-DSP-DVR3-2DDG G4.0.2	DVRG3-OS-Update_v1.12.tar	ALPHEUS-W2 (HD)	
SCCW-2DRHVL-DSP-DVR3-2DDG G4.1 SCCW-2DRHVL-DSP-DVR3-2DDG G4.2 SCCW-2DRHVL-DSP-DVR3-2DDG G4.3	DVRG3-OS-Update_v2.7.tar		
PDC-2D3H-2DRVL-DSP-DVR3-M1.0 PDC-3D4H-2DRVL-DSP-DVR3-M1.0	DVRG3-OS-Update_v1.12.tar	PROTEUS-C1	
PDC-2D3H-2DRVL-DSP-DVR3-G4.2 PDC-3D3H1L-2DRVL-DSP-DVR3-G4.2	DVRG3-OS-Update_v2.7.tar	PROTEUS-C2	
SCU-DVR3-2-M1.3 SCU-DVR3-4-M2.0	DVRG3-OS-Update_v1.12.tar	THALLASA-R1	
SCU-DVR3-2-G4.1 SCU-DVR3-4-G4.1	DVRG3-OS-Update_v2.7.tar		
SCU-DVR3-2H-G4.1 SCU-DVR3-4H-G4.1	DVRG3-OS-Update_v2.7.tar	THALLASA-R2	

2 New & Fixed

In Version 1.9 Build 2

- Added choice of DHCP or Static IP settings
- Added renaming option of file and directory
- Added multiselect files for copying and deleting with checkbox
- Changed stop recording when camera is disconnected.
- Changed VU meter adjusted with red and green scale
- Added Onscreen Keyboard can be used where text typing is required
- Added Free Text buttons for use with Onscreen Keyboard
- Added for Depth sensor input option: added max. depth, high pressure in overlay
- Added for HD system added automatic camera resolution detection. SD camera is detected and set correctly
- Added deinterlace selection in channel setting for older SD cameras deinterlacing.
- Changed Teamviewer support and replaced by Rustdesk support option. Requires OS v2.7 or v1.12
- Fixed bug issue of 0Kb recording in channels
- Changed camera On button function, camera button activates the video stream and switches power to the camera.
- Decreased CPU load and power use of the DVR

In Version 1.7 Build 4

- Added support of using SSD hard drive larger then 2Tb
- Fixed audio record to be able to switch On or Off
- Fixed record all button

In Version 1.6 Build 0

- Added support for dual audio output
- Added scrollable update items
- Changed battery colors to match battery led
- Fixed monitor configuration for 2nd monitor
- Fixed start up crash when capture card is not found

In Version 1.4 Build 0

- Changed default start location Xpos and Ypos for overlay set to 1,1
- Changed default video settings for HD to 128, 128, 128, 100, 0
- Changed version numbering: Build number will reset every new version
- Changed maximum file size from 2GB to 4GB

In Build 39:

- Added HD support
- Added Transparency for picture in OSD
- Added orange camera button
- Added "waiting for signal" message
- Added Firmware updater
- Added Battery level percentage
- Added layout save and load on startup
- Improved Free text
- Changed name "Channel settings" to "Video settings"
- Changed maximum bitrate to 20000 kbps
- Fixed missing .xml in filename
- Fixed HD driver update
- Fixed picture file format checked

In Build 36-38:

- Fixed screen Tearing
- Added Temperature security
- Added Loop Record
- Fixed problems with long file names
- Added light voltage control

In Build 35:

- Improved Free Text typing
- Improved file copying

- Added support for multiple screen drivers

In Build 32:

- Fixed the configuration settings

In Build 31:

- Added support for new screen driver

In Build 30:

- Added a Caps lock notification
- Added <enter> support for password
- Added Support for NSCLD
- Optimized CPU usage

In Build 29:

- Added status symbol for backup recording
- Added PC server share
- Added Secure File Transfer Protocol
- Added status symbol for file sharing
- Fixed Time bug
- Fixed OS-clone bug
- Fixed USB finder bug

In Build 28:

- Set Default recording bitrate from 8 Mbps to 4 Mbps
- Added adjustable camera voltage
- Added Coax or Twisted Pair switch for camera
- Added adjustable recording bitrate
- Added recording backup to USB
- Added option to disable camera & light when shutting the system down
- Added file size while copying
- Added possibility to update via Rustdesk
- Added network info for customer service
- Added bus termination switch
- Fixed copying from the Player to USB
- Fixed the crashing of the Player when a file is clicked too fast
- Fixed the cam/light status at startup
- Fixed change date function

In Build 27:

- Added "Copy Layers" in the On-screen display
- Added support for LUX1MZ
- Added Low battery warning
- Added Stop recording for low battery
- Added visual indicator for the OS version
- Fixed too high volume in the Player
- Fixed slow closing of the Player and Browser
- Fixed the crashing of the Player when a broken file is played
- Fixed recording of files when the disk is full

4 Manuals

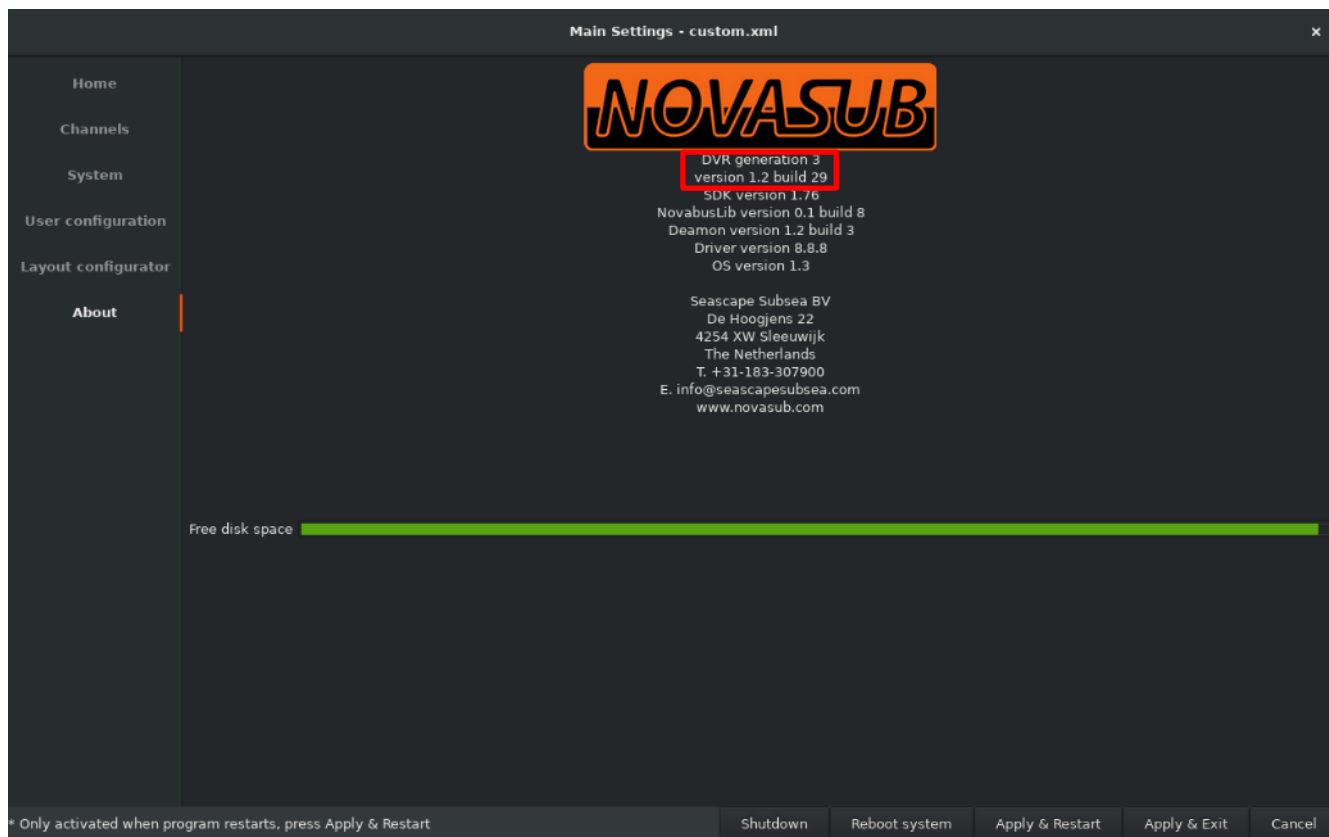
The latest manuals will be installed on the system you update. These manuals are in pdf format and can be copied from the DVR3 help to a USB-drive. The manuals of all systems can also be downloaded from the website:

<https://www.novasub.com/support/>

5 Updating DVR3 software

Seascope subsea is constantly improving the DVR3 software with new features and bug fixes. However, to use these improvements, you will have to update the system. This manual provides a full step-by-step plan to update your system.

1. Check your version number:



2. If your version number is v1.x build 26 or above, continue below. If your build number is below v1.x build 26, then go to **5.2 Updating from version 1.x build 25 and below**

5.1 Updating from version 1.x build 26 and above

1. Copy both necessary files to a USB drive. **Please note that a USB drive formatted as FAT16 will not work.** The ServicePack is different for the different Novasub products or product configuration. The text in red is the product for which the ServicePack is meant.
2. Email [support](#) to request the update files
3. Below are the files that you will need:
 - *DVRG3-OS-Update_v1.12.tar.gz* (for G4.0.2& M1.x&M2.x) or *DVRG3-OS-Update_v2.7* (for G4.1 and above)
 - *DVRG3-ServicePack_v1.9B2.tar.gz*

(The **red** text depends on the system and the latest version, the novasub support team will give you the correct files)

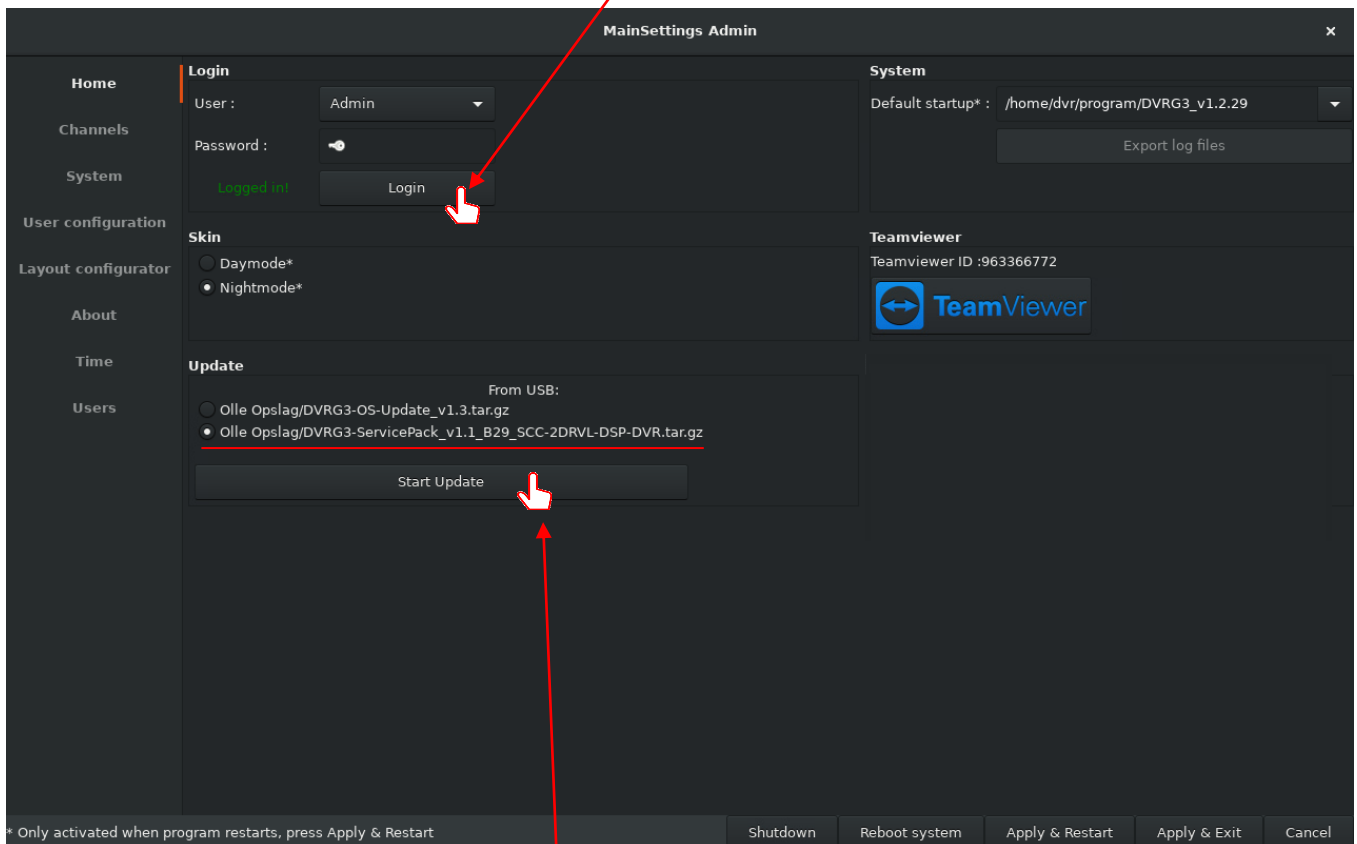


Warning:

Installing the wrong OS-Update will result in a non working system and needs to be returned to Seascope Subsea Bv for reinstallation of application software.

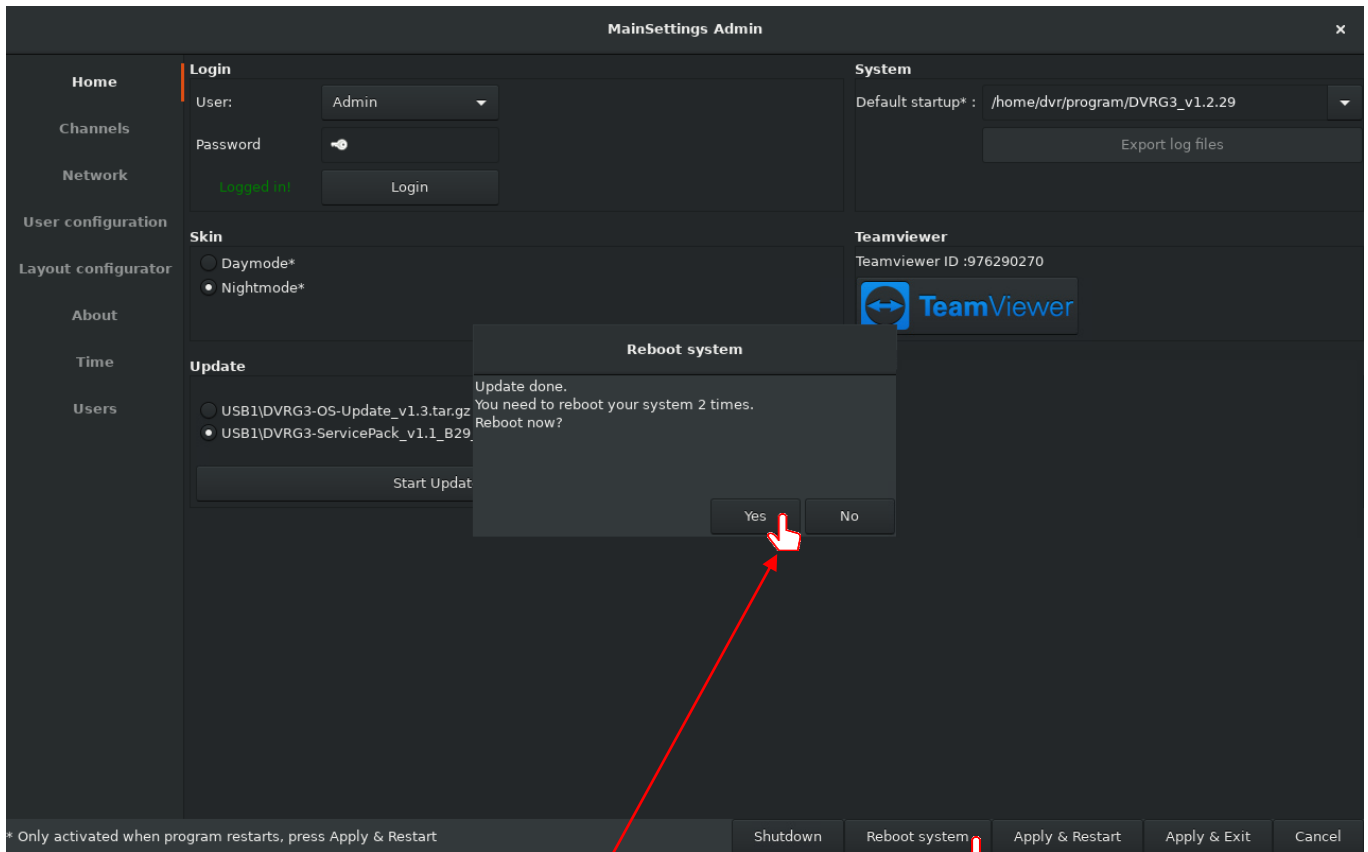
4. Insert the USB drive into the system
5. Login as Admin
6. Now select the *DVRG3-ServicePack_v1.9B2.tar.gz*
7. Start the update:

5. Login as Admin by default no password



6. Select the ServicePack and start the update

8. Once the update is done, you need to reboot the system
9. Now reboot the system a second time:



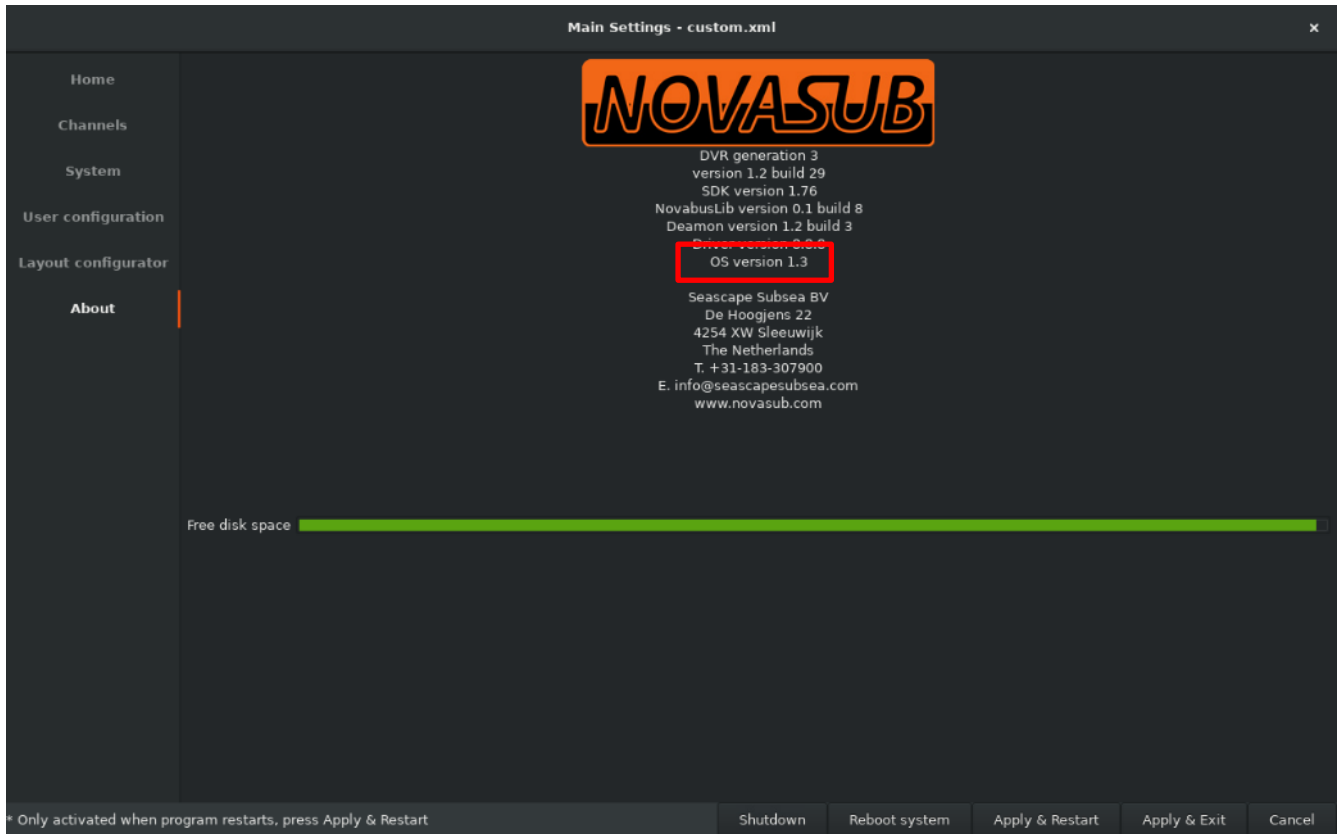
7. Reboot the system

8. Reboot the system a second time

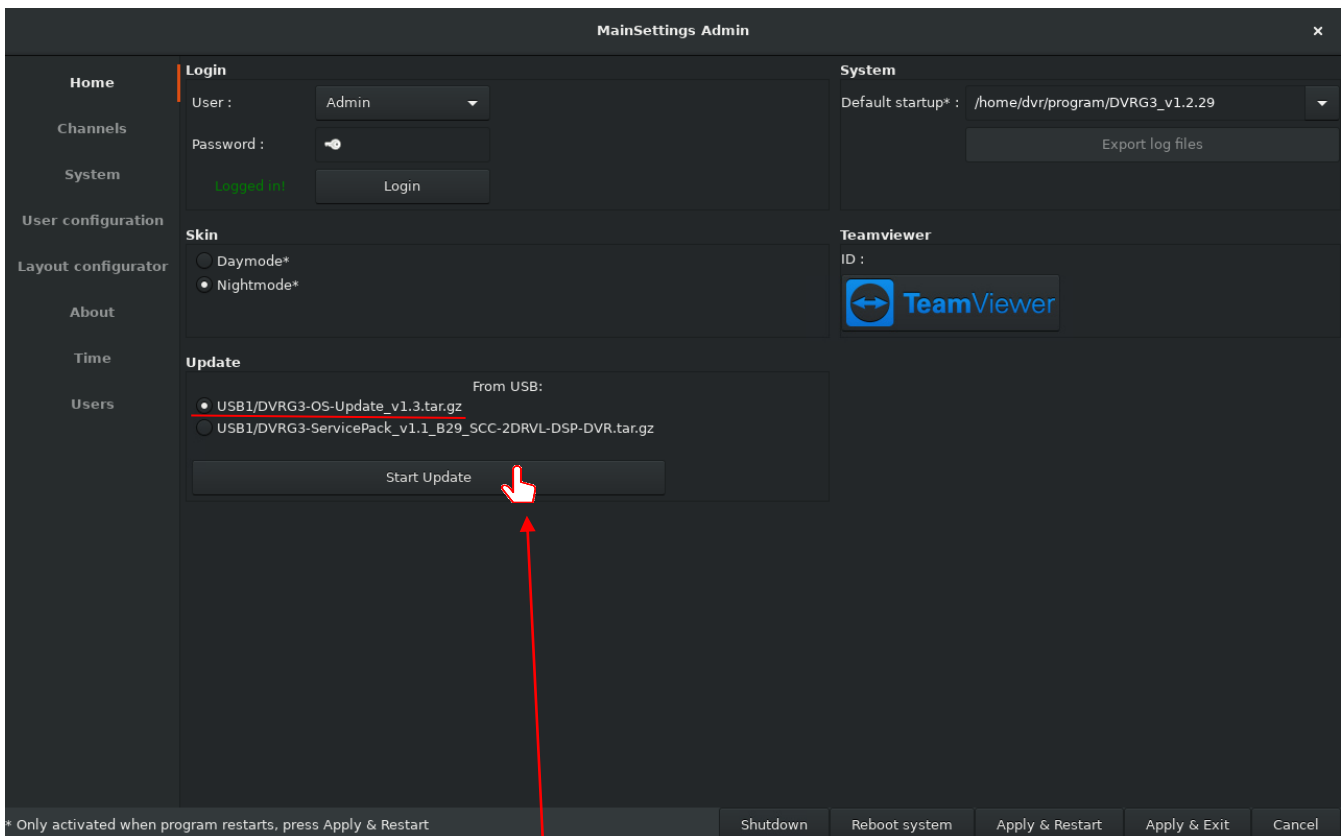
≥ v1.x B26

10. OS Update, Check your system model:

If your system model end's with -G4.02 or M1.x or M2.x update with file DVRG3-OS-Update_v1.12.tar
 If your system model end's with -G4.1 or 4.2 or 4.3 update with file DVRG3-OS-Update_v2.7.tar



11. Now select the OS-Update and start the update:



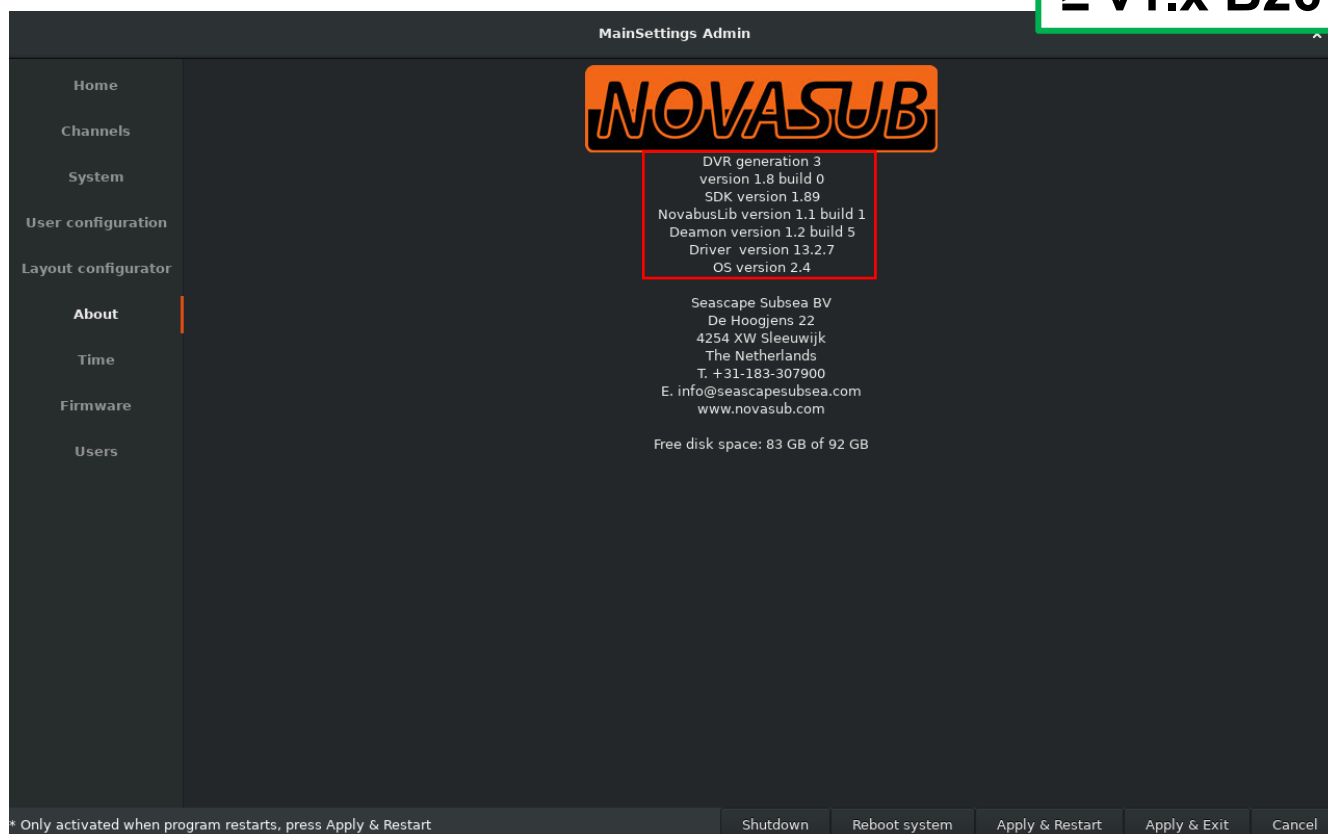
9. Select the OS-Update and start the update

The OS-update will now automatically go through several stages, which are shown below:

Step	Note
1	Operating system update Extracting File
2	Operating system update Cloning to temporary location. This can take up to 5 minutes. Do Not Shutdown!!!
3	*REBOOT*
4	Operating system update Cloning you system to the new OS now. This can take up to 5 minutes. Do Not Shutdown!!!
5	*REBOOT*
6	Operating System update Checking system.
7	*REBOOT*
8	Operating system update OS successfully updated to: 1.4 (or higher depending on the update)

12. Check the version numbers of the different software pieces. If they are the same as below, then the update was successful!

≥ v1.x B26



This is a screenshot of G4.x systems

DVR generation 3
Version 1.9 Build 2
SDK version 1.87
NovasubLib version 1.1 build 3
Deamon version 1.2 Build 5
Driver version 8.8.8 or 11.8.1
OS Version 2.7 (or v1.12 for G4.0.2)

5.2 Updating from version 1.x build 25 and below

NOTE: When updating from version 1.0.18 or lower you will need the assistance of Seascope support to activate a license key. The license is needed to be able to have live video from the cameras and to be able to record. See step 15.

1. Copy three necessary files to a USB drive. These files are provided by seascope and us the file from the folder "Before B26". The ServicePack is different for the different Novasub products. The text in red is the product for which the ServicePack is meant.
2. Email [support](#) to request the update files
3. Below are the files to install on the USB drive:
 - DVRG3_v1.9.2.tar.gz
 - DVRG3-OS-Update_v1.12.tar.gz (for G4.0.2& M1.x&M2.x) or DVRG3-OS-Update_v2.7 (for G4.1 and above)
 - DVRG3-ServicePack_v1.9B2.tar.gz

(The red text depends on the system and the latest version, the novasub support team will give you the correct files)

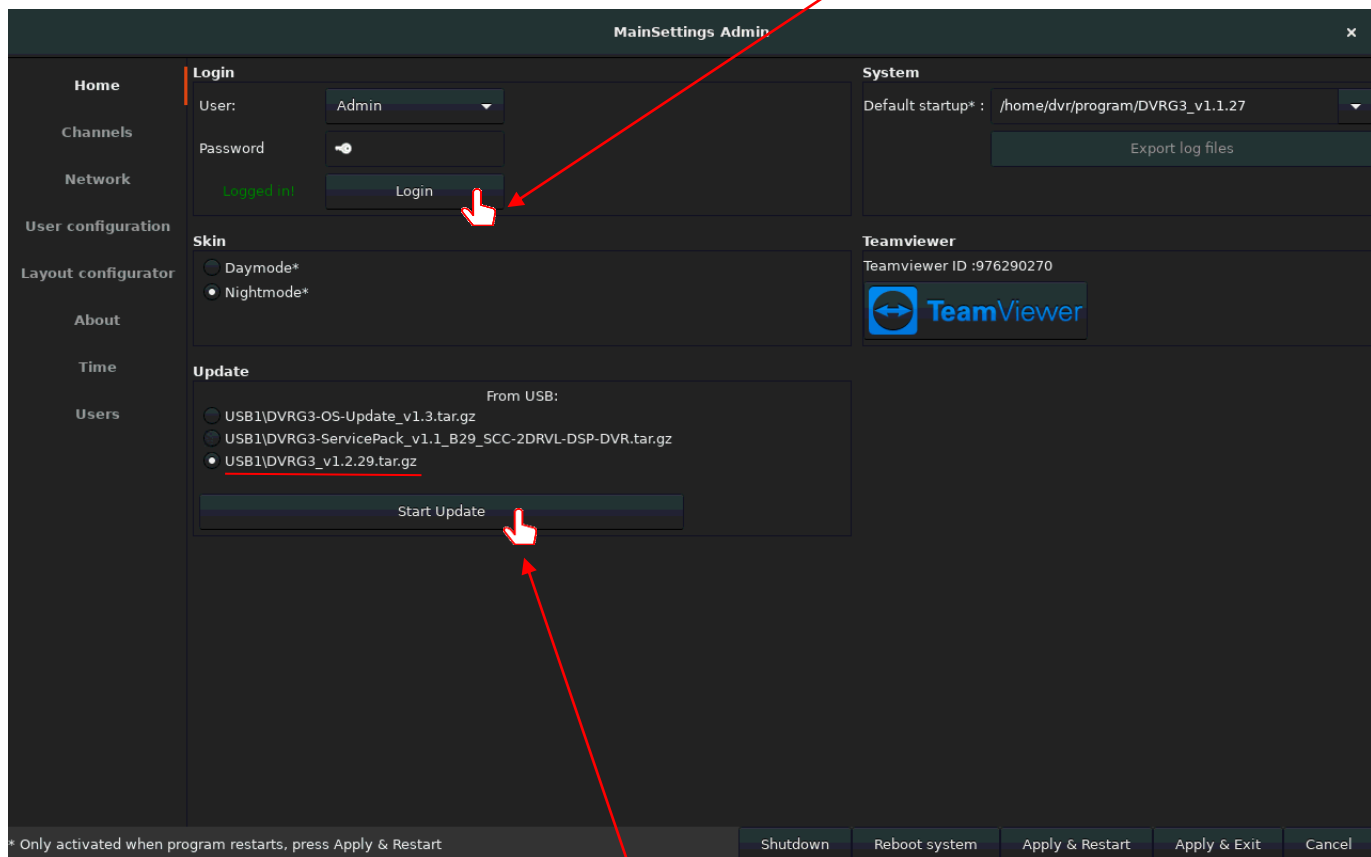


Warning:

Installing the wrong OS-Update will result in a non working system and needs to be returned to Seascope Subsea Bv for reinstallation of application software.

4. Insert the USB drive into the system
5. Login as Admin
6. Now select the DVRG3_v1.9.2 update and start the update

5. Login as Admin by default no password

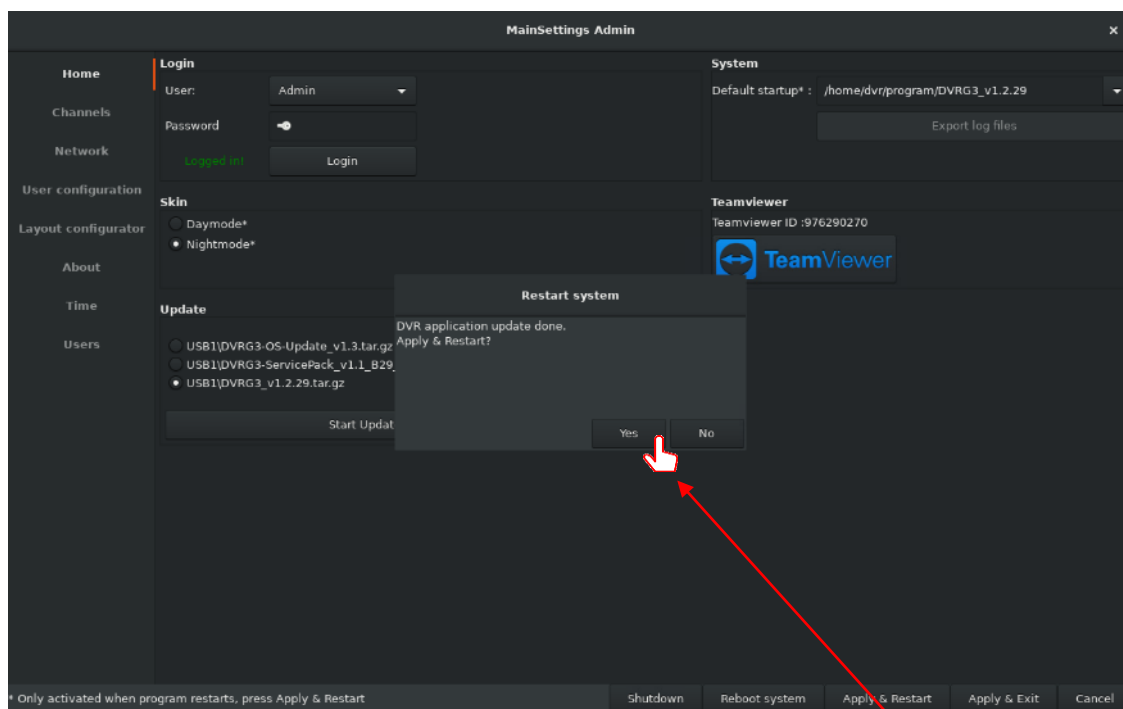


The screenshot shows the 'MainSettings Admin' window. On the left is a sidebar with navigation options: Home, Channels, Network, User configuration, Layout configurator, About, Time, and Users. The main area is divided into several sections. The 'Login' section has a 'User' dropdown set to 'Admin', a 'Password' field with an eye icon, and a 'Login' button. A red arrow points to the 'Login' button. Below the 'Login' section is the 'Skin' section with 'Daymode*' and 'Nightmode*' radio buttons. The 'Update' section is titled 'From USB:' and lists three update files: 'USB1\DVRG3-OS-Update_v1.3.tar.gz', 'USB1\DVRG3-ServicePack_v1.1_B29_SCC-2DRVL-DSP-DVR.tar.gz', and 'USB1\DVRG3_v1.2.29.tar.gz'. The third file is selected with a radio button. Below the list is a 'Start Update' button. A red arrow points to the 'Start Update' button. On the right side of the window, there are sections for 'System' (Default startup* set to '/home/dvr/program/DVRG3_v1.1.27' with an 'Export log files' button) and 'Teamviewer' (Teamviewer ID: 976290270 with a TeamViewer logo). At the bottom of the window is a status bar with the text '* Only activated when program restarts, press Apply & Restart' and buttons for 'Shutdown', 'Reboot system', 'Apply & Restart', 'Apply & Exit', and 'Cancel'.

6. Select the DVRG3_v1.9.2 and start the update

Please note that when you update from below build 20, you will lose some settings in the DVR3

7. Once that update is done, you need to restart the system:

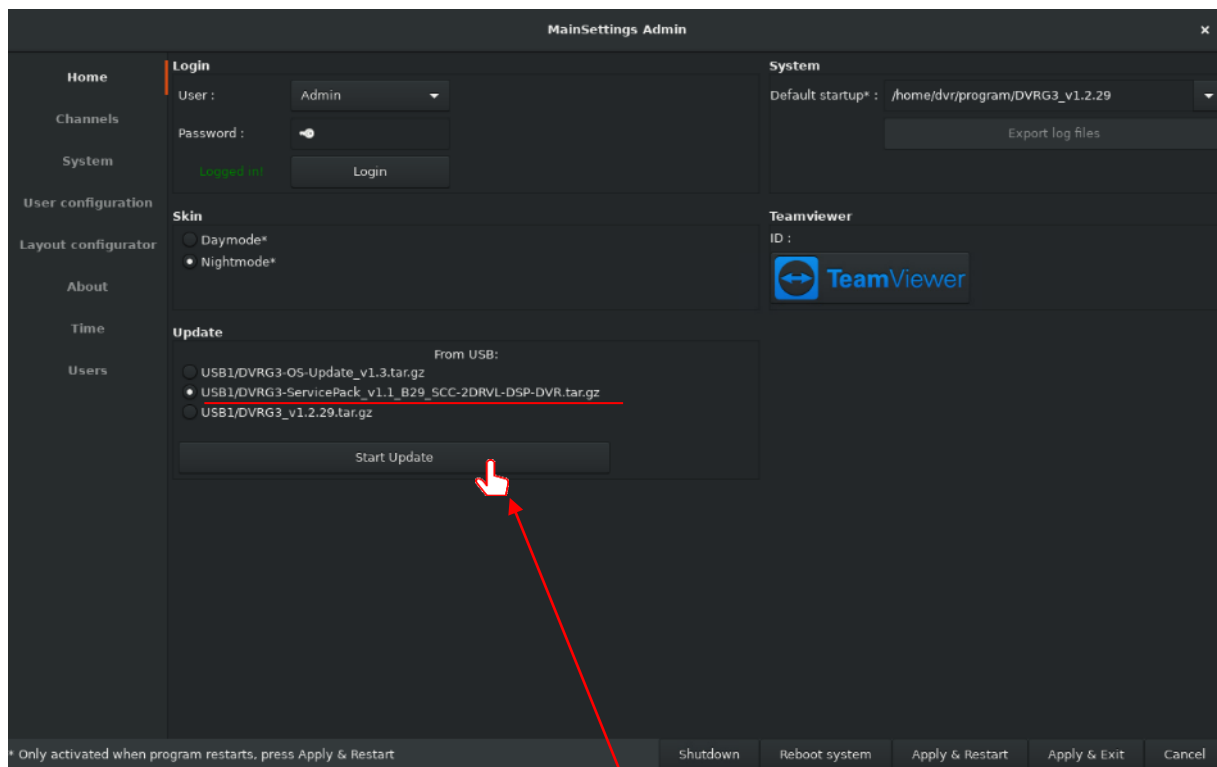


7. Apply & Restart

8. Now select the *DVRG3-ServicePack_v1.9B2.tar.gz*

9. Start the update:

10. Once the update is done, you need to reboot the system



8. Select the
ServicePack and
start the update

≤ v1.x B25

11. Now reboot the system a second time

The screenshot shows the 'MainSettings Admin' window. On the left is a sidebar with navigation options: Home, Channels, Network, User configuration, Layout configurator, About, Time, and Users. The main area is divided into sections: Login (with User: Admin, Password field, and Login button), System (with Default startup* and Export log files button), Skin (with Daymode* and Nightmode* radio buttons), Teamviewer (with Teamviewer ID and TeamViewer logo), and Update (with USB1\DVRG3-OS-Update_v1.3.tar.gz and USB1\DVRG3-ServicePack_v1.1_B29 files, and a Start Update button). A 'Reboot system' dialog box is open in the center, displaying the message: 'Update done. You need to reboot your system 2 times. Reboot now?' with 'Yes' and 'No' buttons. A red arrow points from the 'Reboot system' button in the bottom toolbar to the 'Yes' button in the dialog box. Another red arrow points from the 'Reboot system' button in the bottom toolbar to the 'Reboot system' button in the bottom toolbar. Below the screenshot, two text boxes are present: '9. Reboot the system' and '10. Reboot the system a second time'.

9. Reboot the system

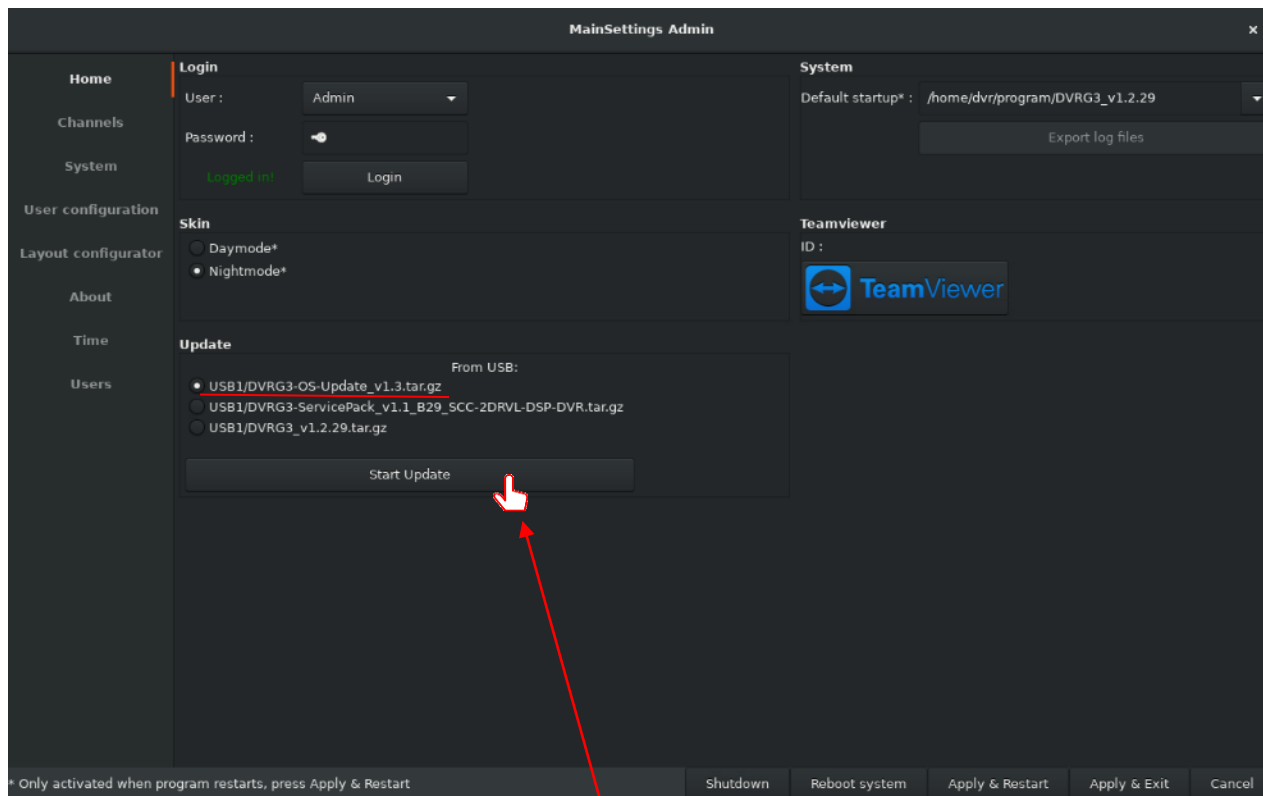
10. Reboot the system a second time

≤ v1.x B25

12. OS Update, Check your system model:

If your system model end's with -G4.02 or M1.x or M2.x update with file DVRG3-OS-Update_v1.12.tar

13. Now select the OS-Update and start the update:



11. Select the OS-Update and start the update

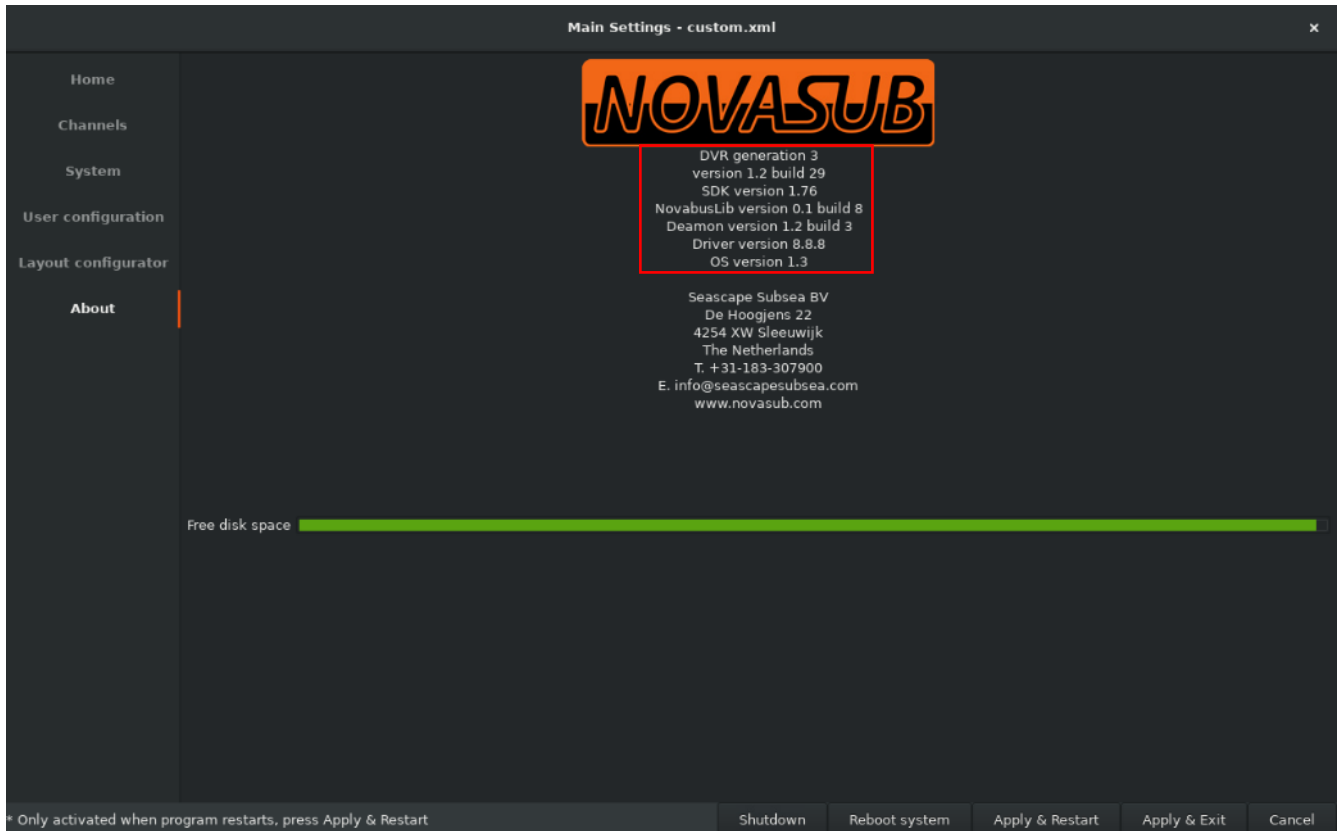
The OS-update will now automatically go through several stages, which are shown below:

Step	Note
1	Operating system update Extracting File
2	Operating system update Cloning to temporary location. This can take up to 5 minutes. Do Not Shutdown!!!
3	*REBOOT*
4	Operating system update Cloning you system to the new OS now. This can take up to 5 minutes. Do Not Shutdown!!!
5	*REBOOT*
6	Operating System update Checking system.
7	*REBOOT*
8	Operating system update OS successfully updated to: 1.4 (Or higher depending on the update)

≤ v1.x B25

- 14.** Check the version numbers of the different software pieces. If they are the same as below, then the update was successful! Please follow the last step for license activation.

DVR generation 3
 Version 1.9 Build 2
 SDK version 1.87
 NovasubLib version 1.1 build 3
 Deamon version 1.2 Build 5
 Driver version 8.8.8
 OS Version 1.12 (or 2.7 for G4.1 or higher)

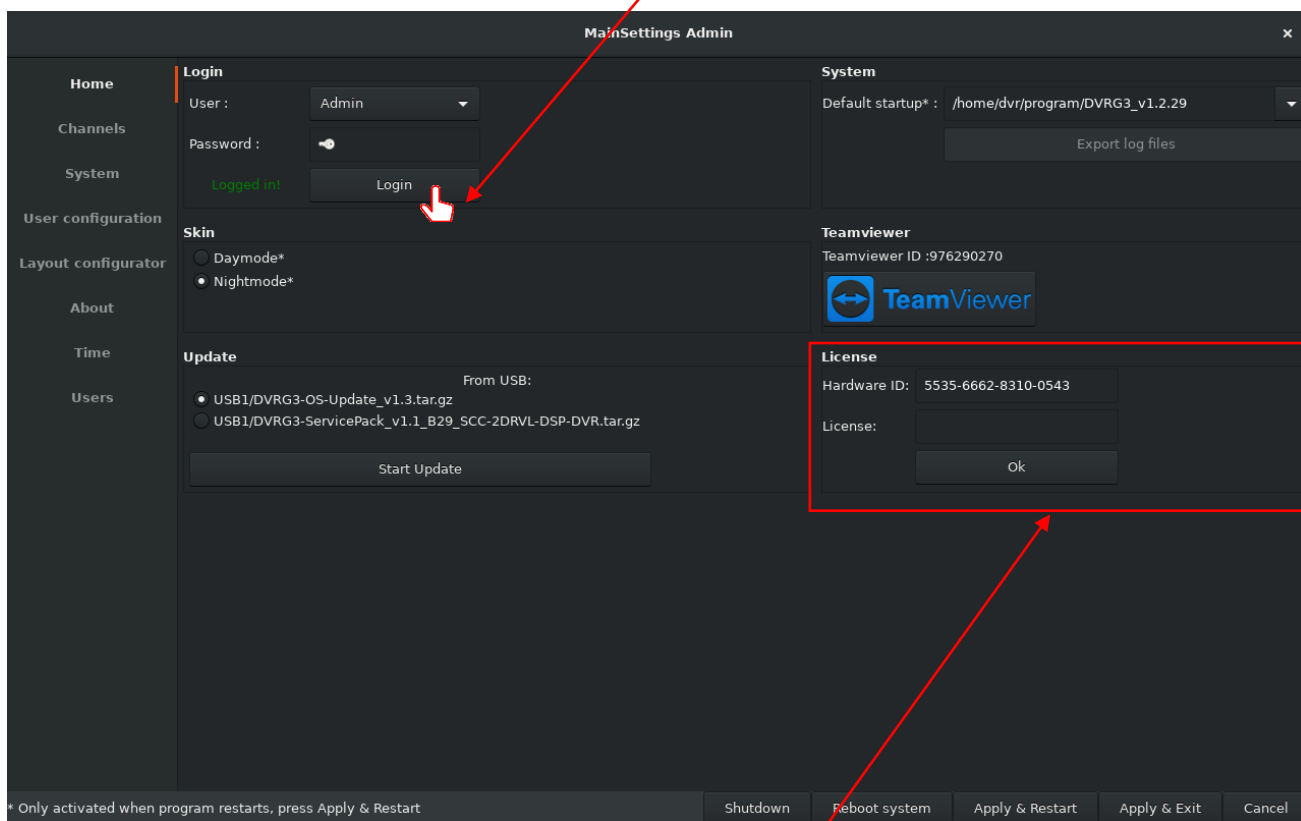


≤ v1.x B25

15. Login as Admin

16. Check if your DVR3 has a license, this can be done in the Home tab. Login as Admin and check if there is a license field. If this field is present, then you will have to enter the license code. If this field is not present, then the system already has a valid license.

13. Login as Admin



14. Check if this field is visible.

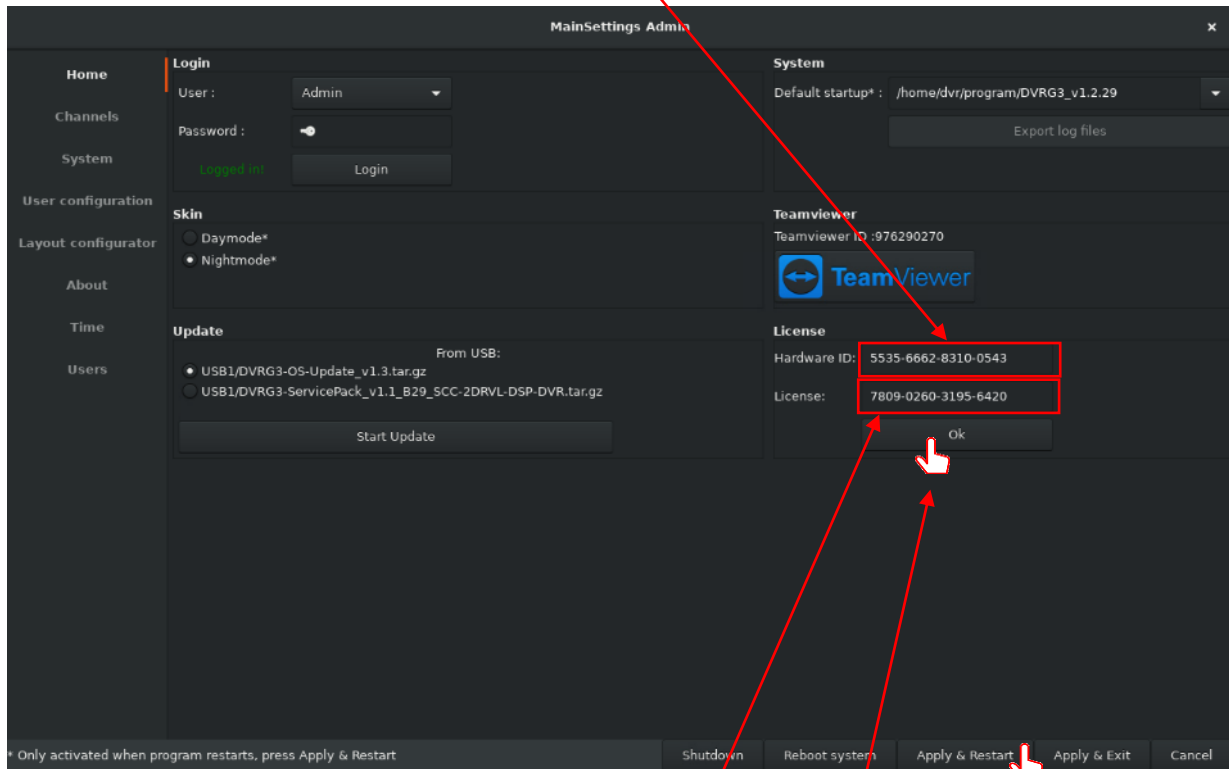
Yes : **Follow steps below**

No : **Your system is ready for use!**

≤ v1.x B25

17. Now you must activate your license. Send your Hardware ID in to support@novasub.com or info@seascapesubsea.com
You will then receive your license code back.
18. This code can be filled in the license field
19. Press OK
20. Apply and restart

15. Hardware ID : Sent to support@novasub.com



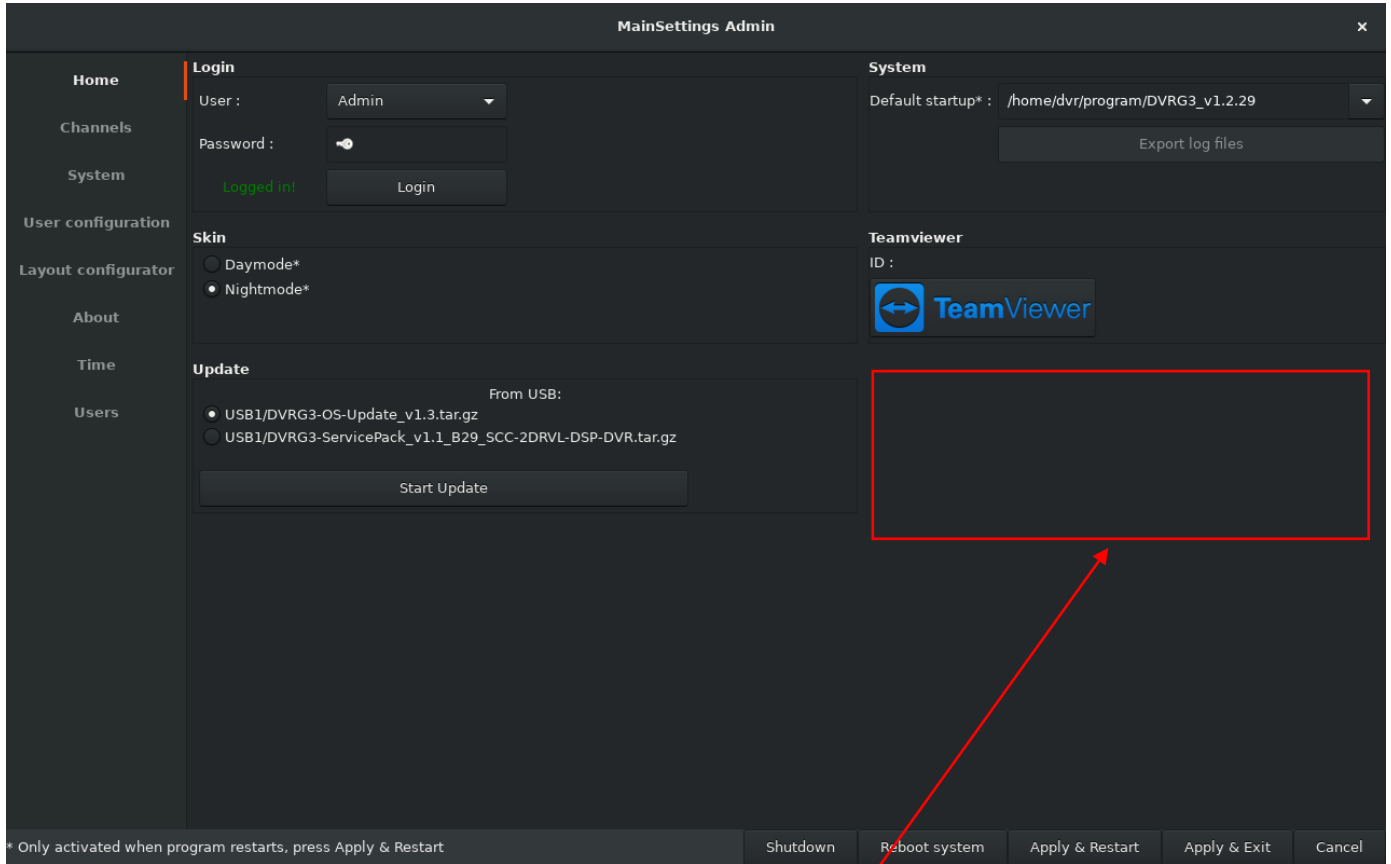
16. License code : Received from Novasub.

17. Press

18. Apply and restart

≤ v1.x B25

21. Now check if the license field is not visible anymore, this means the license is valid and activated:



The screenshot shows the 'MainSettings Admin' window. The 'Update' section is active, displaying two update options from USB: 'USB1/DVRG3-OS-Update_v1.3.tar.gz' (selected) and 'USB1/DVRG3-ServicePack_v1.1_B29_SCC-2DRVL-DSP-DVR.tar.gz'. A 'Start Update' button is visible. A red box highlights the 'License' field, which is currently empty. A red arrow points from the text box below to this field.

19. Check if this field is visible.
 No: **Your system is ready for use!**
 Yes: **Contact Novasub support**

≤ v1.x B25

6 BIOS adjustments after OS update G4.0.2, M1.x & M2.x

When you updated the OS from version 1.1 or lower you will need to adjust one setting in the BIOS of the system. **This setting is not applicable to systems with generation number G4.1. or higher**

Do not change BIOS if your system was with OS version 1.2 or higher

1. Make sure that the system is switched off.
2. Connect the keyboard
3. Power on the system and hold down the ECS key on your keyboard until you enter the BIOS blue page with a login window
4. Type the password: Contact [support](#) for the password
5. Go to Tab **Advanced** using arrow keys of the keyboard
6. Scroll down to **CPU configuration** and press Enter
7. Scroll down to **EIST**, press enter and select "Enabled"
8. Go Back with ESC key
9. Go to **Save & Exit** and select Yes to Save changes and reset.

7 Help & Support

First, please read this manual thoroughly.

For technical support, contact your local a Novasub Authorized Service Center or Seascope Subsea BV. Seascope Subsea BV is the manufacturer of all Novasub branded products.

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If you have cause to use our technical support service, please ensure that you have the following details at hand before calling:

- system serial number
- firmware version and build number
- fault description
- any remedial action implemented