Vodafone MachineLink 3G Plus

Firmware Upgrade Guide









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Upgrading the Firmware

The MachineLink 3G Plus router has dual redundant operating systems; a Main system and a Recovery system. One system may be used to restore the other in the event of a corruption to avoid a total failure of the device. It is therefore necessary to update both the main and recovery systems when a firmware update is available.

The firmware update process involves first upgrading the recovery image firmware and then upgrading the main firmware image. To obtain the latest firmware image files, visit the product website at http://vodafone.netcommwireless.com/



Note: In order to perform a firmware update, you must be logged into the router with the root manager account. Refer to the "Advanced configuration" section of the User Guide for details.

To update the MachineLink 3G Plus router's firmware:

- 1. Connect one end of the RJ-45 (Ethernet cable) to the Ethernet port of the MachineLink 3G Plus Router and the other end to the Ethernet port of your computer.
- 2. Connect the power adapter to the DC power jack of the MachineLink 3G Plus Router and plug it into an available wall socket. Wait approximately 1 minute for the router to start up.
- 3. Extract the firmware image files from the archive that you downloaded from the product website to the hard drive of your computer.
- 4. Open a web browser and navigate to http://192.168.1.1
- 5. In the Username field, enter **root** and in the Password field, enter **admin** then click the **Log in** button.

						Login
6	Status	Networking	Services	System	Help	
		Log in				
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- 6. Select the **System** item from the top menu bar, select the **System configuration** item from the menu on the left and then select the **Upload** menu item.
- Under the File Uploads section, click the Choose a File button. Locate the module image file on your computer named phs8p r03.001 01.001.07.usf and click Open.
- 8. Click the **Upload** button. The module image is uploaded to the router.
- 9. Under the File Uploads section, click the Choose a File button. Locate the uboot image file on your computer named uboot.sb and click Open.
- 10. Click the Upload button. The uboot image is uploaded to the router.
- 11. Under the **File uploads** section, click the **Choose a file** button. Locate the Recovery image file on your computer named **vdf_nwl12_x.x.xx.x_r.cdi** where the letter 'x' represents the version number of the firmware file and click **Open**.
- 12. Click the Upload button. The Recovery firmware image is uploaded to the router.
- 13. Repeat steps 11 and 12 for the Main firmware image file. The Main image is named vdf_nvl12_x.x.x.x.cdi where the letter 'x' represents the version number of the firmware file. When you have completed uploading both files, the router displays a list of the uploaded files.



Note: Do not remove the power when the router's LEDs are flashing as this is when the firmware update is in process.

14. Next to **phs8-p_r03.001_01.001.07.usf** image, click the **Install** link and then click OK on the confirmation pop-up window. The module image is updated and when it is complete the router displays "**The installation was successful**" and then returns to the list of uploaded files



Progress: 89%, 9007266 / 10119682 Progress: 90%, 9107864 / 10119682 Progress: 91%, 9213404 / 10119682 Progress: 92%, 9314722 / 10119682

Progress: 92%, 9314/22 / 1011962 Progress: 93%, 941287 / 1011962 Progress: 95%, 9520256 / 1011962 Progress: 95%, 9520256 / 1011962 Progress: 97%, 9818676 / 1011962 Progress: 97%, 9818676 / 1011962

Progress: 99%, 10024038 / 10119682 Progress: 100%, 10119682 / 10119682

Waiting... Launching connection_mgr Stop flashing LEDs

The installation was successful

Power-cycling to normal operation mode

Complete.... Enabling supervisor

Done: Succes





Note: During the module update process, all LEDs will start flashing until the process is done. Please do not interrupt the process until the LEDs stop flashing. When the process has finished, the router automatically reboots to complete the update.

15. Next to **uboot.sb** image, click the **Install** link and then click OK on the confirmation pop-up window. The u-boot image is updated and when it is complete the router displays "**The installation was successful**" and then returns to the list of uploaded files.



16. Next to the Recovery image vdf_nwl12_x.x.xx.r.cdi, click the Install link and then click OK on the confirmation pop-up window. The recovery image is updated and when it is complete the router displays "The firmware update was successful" and then returns to the list of uploaded files.

ubiformat: flashing eraseblock 80 96 % complete	*
ubiformat: flashing eraseblock 81 97 % complete	
ubiformat: flashing eraseblock 82 98 % complete	
ubiformat: flashing eraseblock 83 100 % complete	
ubiformat: formatting eraseblock 84 8 % complete	
ubiformat: formatting eraseblock 85 16 % complete	
ubiformat: formatting eraseblock 86 25 % complete	
ubiformat: formatting eraseblock 87 33 % complete	
ubiformat: formatting eraseblock 88 41 % complete	
ubiformat: formatting eraseblock 89 50 % complete	
ubiformat: formatting eraseblock 90 58 % complete	
ubiformat: formatting eraseblock 91 66 % complete	
ubiformat: formatting eraseblock 92 75 % complete	
ubiformat: formatting eraseblock 93 83 % complete	
ubiformat: formatting eraseblock 94 91 % complete	
ubiformat: formatting eraseblock 95 100 % complete	
Done	
Done	
Done	
The firmware update was successful	

17. Next to the Main image (vdf_nwl12_x.x.xx.cdi), click the Install link and then click OK on the confirmation pop-up window. The main image is updated. The installation is complete when the countdown reaches zero. The router automatically reboots into the Main system image.





ubiformat: formatting eraseblock 245 72 % complete	1
ubiformat: formatting eraseblock 246 75 % complete	
ubiformat: formatting eraseblock 247 78 % complete	
ubiformat: formatting eraseblock 248 81 % complete	
ubiformat: formatting eraseblock 249 83 % complete	
ubiformat: formatting eraseblock 250 86 % complete	
ubiformat: formatting eraseblock 251 89 % complete	
ubiformat: formatting eraseblock 252 91 % complete	
ubiformat: formatting eraseblock 253 94 % complete	
ubiformat: formatting eraseblock 254 97 % complete	
ubiformat: formatting eraseblock 255 100 % complete	
Done	
Done	
Skipping post-install, nothing to do	
Done	
The firmware update was successful Reboot to main system	
Estimated time remaining: 74 seconds	
Estimated time remaining: 69 seconds	
Estimated time remaining: 64 seconds	П
Estimated time remaining: 59 seconds	

18. After the upgrade has completed, we recommend that you restore the factory default settings of the router. To do this, use a paperclip or another similarly shaped object to hold down the reset button on the router for 15-20 seconds. The router reboots with the factory default settings.

The firmware upgrade is complete.