

These instructions are for the WRT54GS v5.x and v6. For the WRT54G v5.x and v6 see [here](#).

- Index of all WRT54* models: [Linksys WRT54G/GL/GS/GX](#)

You must create a custom VX image for your router!

- Otherwise it will have a generic mac address and most ISPs will not allow internet access.

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File Download Prep

- For the *power cycles* in *How To Flash*, unplug power from the router for 10 seconds then plug back in.
- Download and extract [GV5Flash.zip](#) (reference: [this thread](#)).
- Connect a router LAN port to the computer. Verify that the **computer's wireless is NOT connected!**
- Unzip GV5Flash.zip to the computer, then also unzip the VXImgToolGui.zip file to the same folder
- **The vxworks_prep_v03.bin file is not needed.** Delete it.
- Download and extract [vxworks_prep_GS_v03.bin](#) from [this .zip](#) file.

Initial Flash

1. Read the [Firmware FAQ](#) (and [Peacock Announcement](#) for reference) and download the files above.
2. Do a [hard reset](#) (30/30/30)
3. Set a static IP on the computer (e.g. 192.168.1.7, subnet 255.255.255.0)
4. Open VXImgToolGui.exe:
 1. Select the **WRT54GS v5 or v5.1** (top right button, also works for GSv6). **Not** the WRT54G!
 2. Put the mac address from the bottom of your router in the box that says "Desired Mac Address"
 3. Click on the three dots next to "output image" and save the file as My54gsImage.bin
5. Power cycle the router, then after boot go to 192.168.1.1 which should open the Linksys GUI and NOT a page that says Management Mode. If you see management mode, power cycle the router again.
6. Enter "root" as the username and "admin" as the password
7. Go to *Administration -> Firmware Upgrade* and select [vxworks_prep_GS_v03.bin](#) and hit Upgrade.
8. Wait for FIVE FULL MINUTES. Don't TOUCH that router for FIVE MINUTES. THEN power cycle again.
9. After booting, refresh your browser window. Clear the browser cache if you get a blank window.

Linksys_WRT54GS_v5.0_&_5.1_&_6.0

10. You should have the MANAGEMENT MODE window, now flash the My54gImage.bin file you created.
11. Wait for the "Upgrade Success" message then another FIVE MINUTES again. Don't TOUCH your router.
12. Start tftp.exe
 1. Enter 192.168.1.1 as the address in the top box of tftp.exe
 2. Leave the password blank
 3. Select the 12548 Newd_Micro.bin firmware
 4. Set retries to 99.
 5. Power cycle the router
 6. Run a continuous ping to watch for the first TTL=100 response (or count 2 seconds)
 7. Hit *Upgrade*
13. When you get a success, wait FIVE FULL minutes.
14. When you can access the DD-WRT GUI at 192.168.1.1, power cycle the router.
15. When back to the GUI do another HARD reset.
16. Reset your computer's network connection back to automatic IP and DNS

Upgrade

Use a micro_generic.bin firmware, and flash from the GUI. Check forum builds threads before flashing for known issues.

- For big version changes, or if issues are found, reset and manually set up (do not restore a backup).
- Read the [Firmware FAQ](#) for more information and download locations.

Notes

More information: [Version 5 And 6 Router Information](#)
GS Units **cannot** easily go back to Linksys firmware.

Enable the 16MB RAM on a neutered router

This is only possible on the WRT54GS v5 and v5.1: [Enable 16MB RAM on WRT54GS v5](#)