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Flashing WRT54G-TM

NOTE: During configuration or flashing a device, the only things that should be hooked to the device is the computer and power.

How to flash the Linksys WRT54G-TM T-Mobile Edition

Note: this guide is **ONLY** for the **WRT54G-TM**. Do **NOT** attempt this method on any other device, as it is written **ONLY** for the **WRT54G-TM** router. Linksys WRT54G-TM and WRT54G-RG are identical in terms of hardware **but not the firmware** so the **CORRECT FILES MUST BE USED**. The WRT54G-TM was used by T-Mobile while the WRT54G-RG was for Rogers in Canada.

Flashing the WRT54G-TM:

- Download the DD-WRT firmware: [mega build 14929](#) (newer is suggested*)
 - ◆ Refer to the [Firmware FAQ](#) and [Peacock thread](#) for more information.
- Download the [TFTP utility](#)
- Download Tornado's [CFE Updater-WRT54G-TM.bin](#)
- Recommended: Turn OFF/Disable any AV/Firewall on your PC.
- Ensure the PC is wired to a LAN port on the router when flashing.

***Research New Build forum threads for issues with the WRT54G-TM or k2.4 builds (broadcom/ folder).**

1. The default LAN IP Address of the Linksys **WRT54G-TM** is **192.168.0.1**. You will need to set a Static IP Address on your computer for this procedure. If you are on Windows I suggest that you reset the router to it's defaults and set 2 LAN IP Address on your network controller to speed up the process, otherwise once you upload the **CFE Updater-WRT54G-TM.bin** you will need to change your LAN IP Address from **192.168.0.2** to **192.168.1.2** to be able to TFTP DD-WRT onto the router.

On Windows XP, Control Panel/Network Connections/right-click on Local Area Connection icon and select Properties. On Windows Vista, Control Panel/Network and Sharing Center.

Go into the properties of the Local Area Connection/Internet Protocol TCP/IP and set the static IP address.

Linksys_WRT54G-TM

IP Address: 192.168.0.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.0.1

Click the Advanced button in the TCP/IP setup window and in the IP Address section click the ADD button to add the following 2nd IP Address to the adapter:

IP Address: 192.168.1.2
Subnet Mask: 255.255.255.0

Then click OK on each screen. Your network interface card (NIC) now has 2 LAN IP Address statically set on it, **192.168.0.2** and **192.168.1.2**. This will allow your PC to communicate with the router **before** and **after** replacing the CFE on it. It will also allow you to be able to tell when the router is ready for a TFTP upload.

2. Open a command prompt window and type **ping -t 192.168.1.1** and hit enter. Leave this window open.

3. Log into the **WRT54G-TM**'s web interface @ <http://192.168.0.1> (assuming that the router has been reset to defaults) and go to the Administration Tab - Firmware Upgrade. Upload the **CFE_Updater-WRT54G-TM.bin** to the router.

!!!ATTENTION!!! You MUST wait at least 5 minutes after clicking the Upgrade button to allow the CFE_Updater to replace the stock CFE on the router and for it to erase the rest of the flash, otherwise you will brick your router.

A few seconds after clicking the Upgrade button the Linksys web interface will report that the upload has been successful and the power light will begin flashing on the router. Do NOT assume that the CFE replacement/flash erasing/reboot process has finished as the power light will continue to flash after it has rebooted. So there is no way to tell when it is ready for you to TFTP the DD-WRT firmware to it except when you begin to see the ping respond.

So once it is finished replacing the stock CFE and erasing the rest of the flash, the router will reboot. When the router is ready for the TFTP upload of the DD-WRT firmware, you will see the **ping -t 192.168.1.1** begin to respond in the command prompt window that you opened before.

- The CFE replacement will retain the router's original MAC Address.

4. Start up the TFTP utility and set the following:

```
Server: 192.168.1.1  
Password: <leave blank>  
File: <path to dd-wrt.v24-12548_NEWD_mega.bin> (or whichever build you wish to use)
```

Now click the Upgrade button. Once the firmware is sent to the router, it will reboot. The power light will change from flashing to solid when it is ready to be configured @ <http://192.168.1.1>

If you do not see a progress bar as the tftp utility transmits the file, you may need to power cycle your router. Wait until the tftp utility has finished its attempts, then power cycle (possibly waiting a few seconds) and wait until you can ping 192.168.1.1 before clicking Upgrade again.

How to revert the Linksys WRT54G-TM T-Mobile Edition

Note: The default IP of the router will change from the default DD-WRT IP of 192.168.1.1, to the Linksys default IP of 192.168.0.1 midway through the process.

You will have to change the static IP of your rig accordingly.

Read and understand these procedures before attempting the revert process.

This procedure assumes you have the fundamental skills to access your router, set a static IP on your rig, and use the tftp utility found here on the forum. As with anything else in regards to cutting edge technology, you the user assume all risks.

If for some reason your mac's (mac addresses) are not correct (per the sticker on your box), this process will let you change them. See :?To change the mac addresses of your router:? below.

If you mac's are correct, you have to do nothing except run the revert utility.

No Mac Change:

- 1). Reset your box (router) to factory settings via the GUI.
 - 2). Set a static IP on your rig of 192.168.1.110, subnet mask of 255.255.255.0, Default gateway of 192.168.1.1.
 - 3). Access your router via the GUI. Depending of the version of DD-WRT that is on the box, you may be asked the change the user name and password.
 - 4). Set the user name to ?root? (no quotes)
 - 5). Set the password to ?admin? (no quotes)
 - 6). Click ?Change Password?
 - 7).From the Administration tab, choose ?Firmware Upgrade?.
 - 8).Browse to the location of the [TM-Revert.bin](#) file and select it. Click the ?Upgrade? button at the bottom of the page.
- The file is a program that is loaded and executed by the router. This is not just flashing data. This will take some time to complete. Leave your router alone for at least five minutes after clicking the upgrade button.
- The status of the led's will be after running the revert: Power light flashing, wlan light off, only the lan light your rig is plugged into should be lit.
- 9). After two minutes, you need to change the static IP of your rig as well as the default gateway to the default Linksys IP. Change the IP of your rig to 192.168.0.110, subnet mask of 255.255.255.0, gateway 192.168.0.1
 - 10). After 5 full minutes, it is now safe to tftp the stock Linksys firmware. If you are so inclined, you can verify by pinging 192.168.0.1. You should get a response and TTL=100 should be displayed.

11). Power cycling the device is not necessary. The revert has been tested both ways. One way, tftp the stock Linksys firmware without power cycling after waiting the full five minutes.

The other way, after waiting the full five minutes, power cycle the device, then tftp the stock Linksys firmware.

After the successful tftp of the stock firmware, the router will boot by itself. Leave the router alone after you receive a success message from the tftp utility.

You will know when the reboot is complete as the power led will quit blinking and turn solid, and the wlan led will illuminate. Once complete, access the devices GUI at 192.168.0.1 and configure to your liking.

Congratulations. You are done.

To change the mac addresses of your router:

If for some reason, your mac addresses are not correct per the sticker on your router, or if you would just prefer to change them?

First follow steps 1 through 6 above. Then:

1a). From the Administration, Commands tab, enter the following in the commands box:

2a). `nvramp set et0macaddr=your mac here (format = XX:XX:XX:XX:XX:XX)`

Example: `nvramp set et0macaddr=00:10:20:30:40:A1`

3a). Click ?Run Commands?

4a). Enter the following command in the Commands Box:

5a). `nvramp commit`

6a). Click ?Run Commands?

Note: the `nvramp set et0macaddr` and the `nvramp commit` can be combined in the commands box. Example:

`nvramp set et0macaddr=xx:xx:xx:xx:xx:xx nvramp commit`

After the two commands above are entered in the commands box, you can then click ?Run Commands?

7a). From the Administration, Management tab, click ?Reboot Router?

After the router reboots, verify the mac addresses are the ones you set via the status page.

At this point, you can follow the revert instructions above. The routine will complete and your permanent mac addresses will be as you set. You are back to stock Linksys firmware.

Hardware Mods

[SD/MMC Mod.](#)

[Serial data over USB Mod.](#)

[USB Mod \(on WRT54GS v3\).](#)

If you do the above mods, you may want to look into upgrading your power supply.