

# Firmware Upgrade Procedures: Linksys WRT54GL v1 fw 4.30.11 ETSI (et. al.)

## 1. General Information

**Make:** Linksys

**Model:** WRT54GL

**Hardware Version:** any

**Firmware Version:** 4.30.11 ETSI, 4.30.7 ETSI, 4.30.0 ETSI, 4.20.8 ETSI, 4.20.7

### MAC Address Info:

**WLAN MAC:** two higher than LAN MAC.

**LAN MAC:** labeled on the bottom of the device.

**WAN MAC:** one higher than LAN MAC.

**Example:** if the LAN MAC printed on the device is 00:11:DE:AD:BE:EF, then the WAN MAC is 00:11:DE:AD:BE:F0 and the WLAN MAC is 00:11:DE:AD:BE:F1.

### Defaults Settings/Configuration:

**Default LAN IP Address:** 192.168.1.1

**Web Interface Username:** (empty)

**Default Web Interface Password:** admin

## 2. Wired Upgrade Procedure

### Prerequisites:

- client computer with ethernet interface and firmware file
- ethernet cable
- device LAN IP address (referred to below as <Device\_LAN\_IP\_Address>)
- device web interface password

**Limitations:** if the device is running a CB firmware, under certain situations you may need to reference the CB User's Manual to perform a firmware upgrade.

**Firmware Filename:** WRT54GL\_vN\_[X]code.bin (where N is the firmware version string and [X] is an optional string)

### Instructions:

- Connect a wired (ethernet) client with DHCP enabled to a LAN port on the device with an ethernet cable. If you are not served an IP address by the device, you will need to determine the device LAN IP address (see next step) and manually assign

the wired client an IP address in the same subnet as the device LAN IP address. For example, if the device LAN IP address is 192.168.1.1, assign yourself an IP address of 192.168.1.11.

- Determine the <Device\_LAN\_IP\_Address>. If the device is running DHCP, the device LAN IP address is likely the default gateway of your connected client; otherwise, if the device LAN IP address is not the default LAN IP address listed above, the device LAN IP address can be retrieved in wireless sniffer capture data (e.g., kismet).
- Log on to the device's web interface by opening a web browser and pointing it to [http://<Device\\_LAN\\_IP\\_Address>](http://<Device_LAN_IP_Address>), where “<Device\_LAN\_IP\_Address>” is the device IP address determined from the previous step (i.e., not the literal string “<Device\_LAN\_IP\_Address>”). For example, if the <Device\_LAN\_IP\_Address> is 192.168.1.1, use <http://192.168.1.1>.
- At the login prompt, enter the web interface password and click OK.
- Then click the “Administration” link on the upper right tab.
- Then click the “Firmware Upgrade” tab.
- Click the “Browse...” button and browse to the WRT54GL\_vN\_[X]code.bin firmware file the client computer.
- Click the “Start to Upgrade” button.
- Watch the interface for any additional steps/error messages/information.

**Reboots Automatically After Upgrade:** Yes

**Approximate Upgrade Time:** 120 seconds

**Known Issues:** None

### 3. Wireless Upgrade Procedure

**Prerequisites:**

- client computer with 802.11 wireless client card (or built-in 802.11 client hardware).
- wireless encryption (WEP, WPA, or WPA2) key (if wireless security is enabled)
- device LAN IP address (referred to below as <Device\_LAN\_IP\_Address>)
- device web interface password

**Limitations:** None

**Firmware Filename:** WRT54GL\_vN\_[X]code.bin (where N is the firmware version string and [X] is an optional string)

**Instructions:**

- Connect/associate the wireless (802.11) client computer (with DHCP enabled) to the device. If wireless encryption (WEP, WPA, or WPA2) is enabled on the

device, enter the key when prompted. If you are not served an IP address by the device, you will need to determine the device LAN IP address (see next step) and manually assign the wired client an IP address in the same subnet as the device LAN IP address. For example, if the device LAN IP address is 192.168.1.1, assign yourself an IP address of 192.168.1.11.

- Determine the <Device\_LAN\_IP\_Address>. If the device is running DHCP, the device LAN IP address is likely the default gateway of your connected client; otherwise, if the device LAN IP address is not the default LAN IP address listed above, the device LAN IP address can be retrieved in wireless sniffer capture data (e.g., kismet).
- Log on to the device's web interface by opening a web browser and pointing it to [http://<Device\\_LAN\\_IP\\_Address>](http://<Device_LAN_IP_Address>), where “<Device\_LAN\_IP\_Address>” is the device IP address determined from the previous step (i.e., not the literal string “<Device\_LAN\_IP\_Address>”). For example, if the <Device\_LAN\_IP\_Address> is 192.168.1.1, use <http://192.168.1.1>.
- At the login prompt, enter the web interface password and click OK.
- Then click the “Administration” link on the upper right tab.
- Then click the “Firmware Upgrade” tab.
- Click the “Browse...” button and browse to the WRT54GL\_vN\_[X]code.bin firmware file the client computer.
- Click the “Start to Upgrade” button.
- Watch the interface for any additional steps/error messages/information.

**Reboots Automatically After Upgrade:** Yes

**Approximate Upgrade Time:** 120 seconds

**Known Issues:** None