SD-WAN: Cisco Linksys WRT54GL – flashing firmware & config

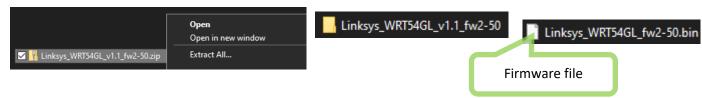
Overview: upload SD-WAN firmware to router, reboot, and config ready for shipping to customer.

You will need:

- PC or Mac with an Ethernet port
- Custom SD-WAN firmware for the WRT54GL
- Unique SD-WAN configuration settings



Ensure that you already downloaded the firmware file "Linksys_WRT54GL_v1.1_fw2-50.zip". Right-click and extract the file and double-click into the folder "Linksys_WRT54GL_v1.1_fw2-50" to locate the firmware file:



Step 1: Upload firmware

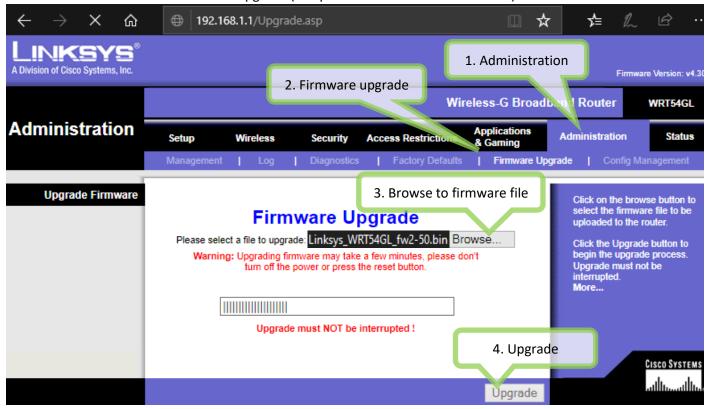
Plug in the power and turn ON the WRT54 router. Remove the sticker form the rear, and dispose.



Turn off your WiFi, and connect the supplied LAN cable from your computer to LAN port 1 on the WRT54 router:



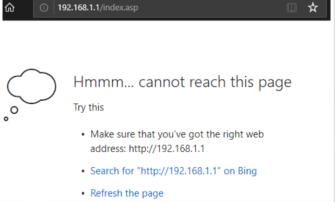
using the username **admin** and the password **admin** ...browse to the firmware file and click upgrade (this process will take over 5 minutes)



Step 2: Remove unwanted items, reconnect LAN cable, log into SD-WAN

During the firmware upload process (at least 5 minutes) the lights will flash. Once the power light remains solid, remove your network cable for 1 minute, then reconnect (the original IP address is no longer valid – it's changed)





...whilst you are waiting dispose of (recycle) any unwanted items such as:



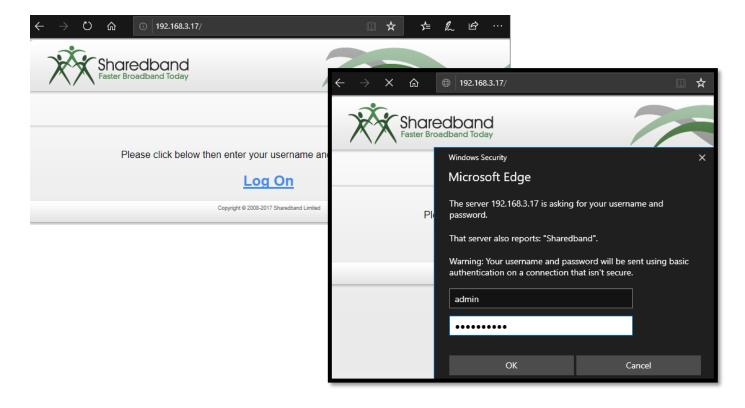
2 x antenna (unscrew)

1 x CD

All paperwork/manuals

(We don't want these left in the box as they may confuse the customer!)

On your computer go to http://192.168.3.17 and login using the SD-WAN username **admin** and the password **Bonding123**

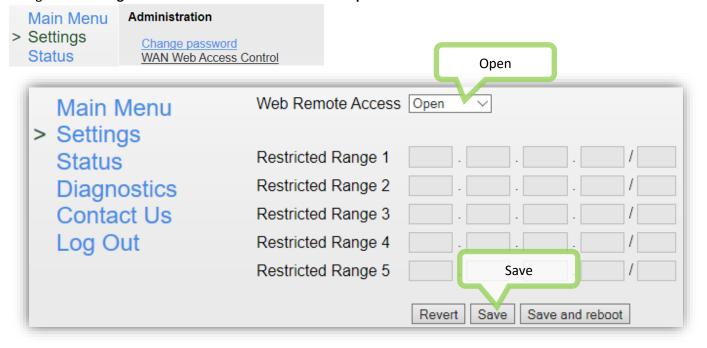


Step 3: Configure and test

Navigate to Settings > WAN connection setup. Change the WAN MTU to 1456 and click Save.

Main Menu > Settings Status	Interfaces	
	LAN settings WAN connection setup	WAN Connection Setup
Main Menu Settings Status	Connection	
	Connection type	Ethernet via WAN port ∨
	Hotspot Details	
	Hotspot provider	Other ∨
	SSID	
Diagnostics Contact Us	Username	
Log Out	Password	
Log Out	IP Addressing	
	IP Addressing Mode	Dynamic IP (DHCP) ✓
	IP Address	10 . 0 . 1 . 80
	Subnet Mask	255.255.255.0 ∨
	Default Gateway	0 . 0 . 0 . 0
	DNS Server	87 . 117 . 198 . 200
	PPP Username	username
	PPP Password	•••••
	Connection Mode	
	WAN MTU	1456
	Failover mode?	No ∨
	Save	Save Save and reboot

Navigate to **Settings** > **WAN Web Access Control**. Select **Open** and click **Save**.



Now navigate to **Settings** > **Sharedband service configuration**. Enter the SD-WAN **settings** and click **Save and reboot** (it takes about 2 minutes to reboot)

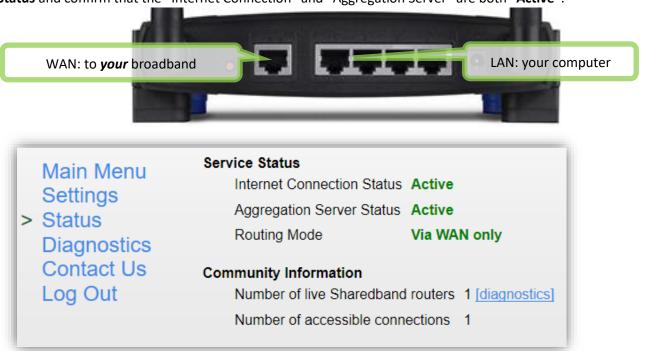
Main Menu > Settings Status	Interfaces LAN settings WAN connection setup			
Diagnostics Contact Us	Sharedband	Se	ervice Config	uration
Log Out	Sharedband service configuration			
Main Menu	Your Username	Э	bt123x45678	
Settings	Your Password	I	•••••	
Status	Community ID	number	123	
Diagnostics	Router identifie	er	1 🗸	
			101 . 102 . 103	. 0
Log Out			Save and re	boot
		Save Save and	reboot	

You will have been provided with the unique SD-WAN settings for this specific unit: (the above are only an example)

SD-WAN username	
SD-WAN password	
Community ID	
Aggregation server IP	
Router serial number (on label)	

Optional: test

If you have an internet router and a spare cable, connect **1** end of the cable to the WAN port of the WRT54 router and connect the other end to *your existing* internet router. After waiting for it to reboot (2 minutes) navigate to **Status** and confirm that the "Internet Connection" and "Aggregation Server" are both "**Active**":



Step 4: Box up for shipping

Make a note of the **serial number** on the label (we need to know which SD-WAN config has been saved to which router) and place the router in the box, ready for shipping, as follows:

- Power supply
- LAN cable
- Router



[End of article]