

Linksys Wireless G WRT54GS Version 1.0

Scope

This document describes how to configure the Linksys Wireless G WRT54GS router to work with LucidLink[™] Wireless Security Software, version 1.5. The document:

- Focuses on the manual configuration of the router.
- **Does not** address LucidLink software installation or configuration.
- Assumes the LucidLink server is installed and configured with an IP address and shared secret.

Requirements

This document will work with routers that meet the following requirements:

Product Model Number	WRT54GS
Firmware Version	V2.07.1, Feb 26, 2004
NICs	



The exact configuration of the router depends on the combination of router, wireless adapter card, and client operating system used. For a list of compatible and supported hardware combinations, go to: www.lucidlink.com/Tech_Support/Compatibility.asp

Connecting to the Router

- 1 Connect the Router to the same network hub as the workstation you will use to configure it. This workstation does not necessarily have to be the LucidLink server host computer.
 - Connect the Ethernet Cable to the Ethernet connector port.
 - Connect the power pack output to the power port.
 - Reset to factory default with reset button in back.
- 3 Open an Internet browser and enter the default IP address **192.168.1.1** in the address field.
- 4 At the login box, enter User Name and Password.

Linksys factory defaults are **blank** for User Name and **admin** for Password.

Connect to 192.1	68.1.1 ? 🔀
	GP
WRT54GS	
<u>U</u> ser name:	2
<u>P</u> assword:	•••••
	Remember my password
	OK Cancel

5 Click OK

The *Setup* screen is displayed:

Setup - Microsoft Internet Explorer		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp		
🌀 Back 🝷 🐑 👻 📓 🏠 🔎 S	earch 📌 Favorites 🜒 Media 🧭 🔗 - چ 🚍 - 🗔 🎗	
Address 🕘 http://192.168.1.1		So Links
A Division of Cisco Systems, Inc.		Firmware Version: v2.07.1
	Wireless-G Broadband Router with Spe	edBooster WRT54GS
Setup	Setup Wireless Security Access Applications Access Gaming	Administration Status
	Basic Setup DDNS MAC Address Clone Adva	anced Routing
Internet Setup		
Internet Connection Type	Automatic Configuration - DHCP 🗸	Automatic Configuration -
Optional Settings		commonly used by Cable
(required by some ISPs)	Router Name: WRT54GS	operators.
	Host Name:	name provided by your ISP.
	Domain Name:	Domain Name: Enter the domain name provided by your
	MTU: Auto	ISP. More
	Size: 1500	
Network Setup		
Router IP	Local IP Address: 192 . 168 . 1 . 1	address of the router.
	Subnet Mask: 255.255.0	Subnet Mask: This is the subnet mask of the router.
Network Address Server Settings (DHCP)	DHCP Server: 💿 Enable 🔘 Disable	DHCP Server: Allows the router to manage your IP
	Starting IP Address: 192.168.1. 100	addresses.
	Maximum Number of 50 DHCP Users:	address you would like to start
	Client Lease Time: 0 minutes (0 means one day)	With. Maximum number of DHCP
		Users: You may limit the
		Internet

Configuring the Router

Once you've connected to the router, follow these steps to configure it to work with LucidLink software.

IP Addresses

1 Click **Setup** from the top navigation bar.

Internet Setup section of screen is displayed.

	Windess-G Broadband Router with SpeedBooster						
Setup	Solue	Wreiens	Security	Access Restrictions	Applications & Gaming	Administration	Status
			11.52	I Lod Courts			
nternet Connection Type	Automatic Configuration - DHCP				Automatic Configuration DISCP: This onling is must		
Optional Settings (required by some ISPs)	Proviner Nome:		WRIT54GS			controlity cool by Cable agender p	
	Host Na Contain	nte: Norte:				Hoad Herrort Elder 17 herror provided by the Domain Names Enfo Spreak name provide 50	

- 2 In Internet Connection Type, choose from list based on information from your ISP.
- 3 In the *Router IP* section, enter:
 - o Local IP Address— IP address for Router
 - **Subnet Mask** Portion of your internal wired LAN shared by the router and the LucidLink Server computer.
- 4 In Network Address Server Settings (DHCP) section, enter:
 - **DHCP**—Enable
 - Starting IP Address 100.
 - Number of DHCP Users 50
- 5 In *Time Settings* section:
 - Choose the appropriate **Time Zone** for the router.
 - Select *Daylight Saving* settings if appropriate.

Leave defaults for rest of page.

Network Setup	Li con la balante	Local IP Address: This to The
Router IP	Local P Address: 192 168 1 1	address of the router Subject Marke, Dates for
	Subnet Mack: 255.255.0	extend resk of the router.
lietwork Address Server Settings (DHCP)	DHCP Server	BHCP Server: Alows the coder to therease your P
	Starting P Address 192,168.1, 100	addret see
	Maximum Number of DHCP Users: 50	Starting IP Address: The address you would like to start
	Client Lease Time: 0 minutes (Dimeans one day)	Maximum number of DHCP
	Static 0445 1 0 0 0 0	Battra: You ney ind the purity of addresses your
	State DNS 2. 0.0.0.0.0	router herds out. Moneta
	Static DNS 3 0 0 0 0	
	WNS 0.0.0.0	Time Setting: You may set the
Time Setting	Time Zone	Automatically if you with to use a VID server to keep the most
2012/02/2012	(GMT-05.00) Eastern Time (USA & Canada)	active you are in. This routier care
	Automatically adjust clock for daylight saving changes	disc adjust extendically for devigit savings time.
		Crato Svarawa
	Save Settings Cancel Change	as

- 6 Click Save Settings.
- 7 Click Continue

SSID and Channel

The SSID (Network Name) is used by the wireless clients to identify your network. The SSID appears to users when they connect to the network. You can use the same or different SSIDs for each router. The default SSID should be changed, as this is an un-secure SSID and can be a potential security threat to your network.

1 Click the Wireless tab.

The Wireless Settings screen is displayed.

LINKSYS® A Division of Cisco Systems, Inc.						Firmw	are Version: v2.07.1
	Wireless-G Broadband Router with SpeedBooster TS-WRT54GS						
Wireless	Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
	Basic Wireles	ss Settings VV	freless Security	Wireless MAC F	Filter Advanced'	Wireless Settings	
Wireless Network						Wireless Net	work Mode:
	Wireless Ne	twork Mode:	Mixed	*		SpeedBooster automatically o	is enabled n Mixed Mode
	Wireless Ne	twork Name (SSID)): linksys			and G-Only mo	ode. If you wish eless-G clients
	Wireless Ch	annel:	6-2.437GH	Hz 💙		choose B-Only	Mode. If you
	Wireless SS	ID Broadcast:	💿 Enable 🛛	🔿 Disable		access, choos	e Disable .
							CISCO SYSTEMS
			Sa∨e Settin	igs Cance	el Changes		ավիստուլիրութ

- 2 In Wireless Network Mode choose Mixed.
- 3 In Wireless Network Name (SSID) enter the SSID for this router.
- 4 In Wireless Channel leave default.
- 5 In Wireless SSID Broadcast select Enable.
- 6 Click Save Settings.
- 7 Click **Continue**.

Security

Routers can be configured for *Maximum Security* (WPA-RADIUS with TKIP), or *Maximum Compatibility* (68/128-bit dynamic WEP key encryption), depending on the capabilities of the client wireless adapter cards. To learn your hardware capabilities, see the Compatibility Chart at.

www.lucidlink.com/Tech_Support/Compatibility.asp

1 Click Wireless Security from the navigation bar on the Wireless tab.

The Wireless Security screen is displayed.

A Division of Cisco Systems, Inc.						Firm	vare Version: v2.07.1
			Wirel	ess-G Broadban	d Router with S	SpeedBooster	TS-WRT54GS
Wireless	Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
	Basic Wirele:	ss Settings 🛛 🛔	Wireless Security	Wireless MAC	Filter Advanced	Wireless Settings	
Wireless Security	Securit WPA A RADIUS Addres RADIUS Shared Key Re Timeou	y Mode: Igorithms: S Server is: S Port: Key: newal t:	PSK RADIUS TKIP • 0 . 0 . 0 1812 3600 sec	•]. 0 conds		Security Mod choose from D Shared Key, P RADIUS, All de network must security mode communicate. More	le: You may visable, WEP, Pre- SK RADIUS, or avices on your use the same in order to
							CISCO SYSTEMS
			Save Setting	s Cance	l Changes		األني

- 2 Enter:
 - Security Mode PSK-Radius. (The Security Mode list is miss-labeled. The entry for PSK-Radius is actually WPA-Radius.)
 - WPA Algorithm TKIP
 - RADIUS Server Address LucidLink server IP address.
 - RADIUS Port-1812
 - Secret Key– Shared Secret configured on LucidLink server *Settings* dialog. The Shared Secret is autogenerated when you install the server. Copy this value from the Management Console *Settings* dialog to the router's interface page.
 - Left Key Renewal Timeout– leave default.

- 3 Click Save Settings.
- 4 Click Continue.

Change Administrator Password

To secure your router, we recommend that you change the default administrator password

- 1 Click the **Administration** tab.
- 2 Enter the new **Password** and re-enter it to confirm it.
- 3 Click Save Settings.
- 4 Click Continue.

Rechecking Connection

- 1 Reopen your browser and enter the router's **IP address** in the Address field.
- 2 At the Login, enter the new router User Name and Password.

You should once again see the Home screen.

2 You may optionally bookmark this URL or create a shortcut to it from your desktop for future access to the Linksys Wireless G WRT54GS configuration screens.

Installing Router

Connect the router to the same network hub or switch as the LucidLink server computer, if it is not already there.