



## Router Configuration Note

# Linksys Wireless G WRT54G

## Version 1.0

### Scope


This document describes how to configure the Linksys Wireless G WRT54G router to work with LucidLink™ Wireless Security Software, version 1.7. 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:

<b>Product Model Number</b>	WRT54G
<b>Firmware Version</b>	V2.02.2
<b>NICs</b>	D-Link AirPlus DWL-G650 Wireless Cardbus Adapter (rev C) Intel(R) PRO/Wireless LAN 2100 3A Mini PCI Adapter Dell Wireless WLAN 1350 Mini-PCI Card

	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: <a href="http://www.lucidlink.com/Tech_Support/Compatibility.asp">www.lucidlink.com/Tech_Support/Compatibility.asp</a>
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## 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 in the address field enter the default IP address **192.168.1.1**.
- 4 At the login box, enter **User Name** and **Password**.

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



Enter Network Password

Please type your user name and password.

Site: 192.168.1.1

Realm: WRT54G

User Name:

Password:

☐ Save this password in your password list

OK Cancel

5 Click **OK**

The *Setup Basic Setup* screen is displayed:

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A Division of Cisco Systems, Inc. Firmware Version: v2.04.4

**Wireless-G Broadband Router** **WRT54G**

**Setup**

Setup | **Wireless** | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

**Internet Setup**

**Internet Connection Type** Automatic Configuration - DHCP

**Optional Settings (required by some ISPs)**

Router Name: WRT54G

Host Name:

Domain Name:

MTU: Auto

Size: 1500

**Network Setup**

**Router IP**

Local IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255 . 255 . 255 . 0

**Network Address Server Settings (DHCP)**

DHCP Server: ☒ Enable ☐ Disable

Starting IP Address: 192.168.1.100

Maximum Number of DHCP Users: 50

Client Lease Time: 0 minutes (0 means one day)

Static DNS 1: 0 . 0 . 0 . 0

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

WINS: 0 . 0 . 0 . 0

**Time Setting**

Time Zone: (GMT-08:00) Pacific Time (USA & Canada)

☒ Automatically adjust clock for daylight saving changes

**Automatic Configuration - DHCP:** This setting is most commonly used by Cable operators.

**Host Name:** Enter the host name provided by your ISP.

**Domain Name:** Enter the domain name provided by your ISP.

**More...**

**Local IP Address:** This is the address of the router.

**Subnet Mask:** This is the subnet mask of the router.

**DHCP Server:** Allows the router to manage your IP addresses.

**Starting IP Address:** The address you would like to start with.

**Maximum number of DHCP Users:** You may limit the number of addresses your router hands out.

**More...**

**Time Setting:** You may set the time manually. Or choose Automatically if you wish to use a NTP server to keep the most accurate time. Choose the time zone you are in. The router can also adjust automatically for daylight savings time.

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Save Settings Cancel Changes

# Configuring the Router

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

## IP Addresses

- 1 In **Internet Connection Type**, choose from list based on information from your ISP.
- 2 In the *Router IP* section, enter:
  - **Local IP Address**— IP address for Router
  - **Subnet Mask**— Portion of your internal wired LAN shared by the router and the LucidLink Server computer.
- 3 In *Network Address Server Settings (DHCP)* section, enter:
  - **DHCP** — Enable
  - **Starting IP Address** — 100.
  - **Number of DHCP Users** — 50
- 4 In Time Settings section:
  - Choose the appropriate **Time Zone** for the router.
  - Select *Daylight Saving* settings if appropriate.Leave defaults for rest of page.
- 5 Click **Save Settings**.
- 6 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.

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**Wireless-G Broadband Router** **WRT54G**

**Wireless** | Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Wireless Settings | Wireless Security | Wireless MAC Filter | Advanced Wireless Settings

**Wireless Network**

Wireless Network Mode: Mixed

Wireless Network Name (SSID): TS\_LINKSYS

Wireless Channel: 6 - 2.437GHz

Wireless SSID Broadcast: ☒ Enable ☐ Disable

**Wireless Network Mode:** If you wish to exclude Wireless-G clients, choose **B-Only** Mode. If you would like to disable wireless access, choose **Disable**. [More...](#)

Save Settings
Cancel Changes

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- 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](http://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.



- 2 For **Security Mode**, select **WPA-RADIUS** from dropdown list.
- 3 Click **Save Settings**.

4 Click **Continue**.

The screen will refresh to allow configuration of the RADIUS Server.

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**Wireless-G Broadband Router** **WRT54G**

**Wireless** | Setup | **Wireless** | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Wireless Settings | **Wireless Security** | Wireless MAC Filter | Advanced Wireless Settings

**Wireless Security**

Security Mode:

WPA Algorithms:

RADIUS Server Address:

RADIUS Port:

Shared Key:

Key Renewal Timeout:  seconds

**Security Mode:** You may choose from Disable, WEP, WPA Pre-Shared Key, WPA RADIUS, or RADIUS. All devices on your network must use the same security mode in order to communicate. **More...**

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## 5 Enter the following:

- **Security Mode – 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. A Shared Secret is auto-generated when you install the server. You can copy this value from the Management Console *Settings* dialog to the router's interface page.
- **Left Key Renewal Timeout–** leave default.

6 Click **Save Settings**.7 Click **Continue**.

## Change Administrator Password

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

- 1 Click the **Administration** tab.

The *Administration Management* screen is displayed.

The screenshot shows the Linksys WRT54G Administration Management interface. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration (selected), and Status. The Administration tab is active, showing the Router Password section. The Router Password section has two input fields: Router Password and Re-enter to confirm. The Web Access section has radio buttons for HTTP (selected) and HTTPS, and a checkbox for Wireless Access Web (selected). The Remote Router Access section has radio buttons for Enable and Disable (selected), a Management Port field set to 8080, and a checkbox for Use https. The UPnP section has radio buttons for Enable and Disable (selected). The bottom of the screen has Save Settings and Cancel Changes buttons. A sidebar on the right contains information about Local Router Access, Web Access, Remote Router Access, and UPnP.

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**Wireless-G Broadband Router WRT54G**

**Administration**

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | **Administration** | Status

Management | Log | Diagnostics | Factory Defaults | Firmware Upgrade | Config Management

**Router Password**

**Local Router Access**

Router Password:

Re-enter to confirm:

**Web Access**

Access Server: ☒ HTTP ☐ HTTPS

Wireless Access Web: ☒ Enable ☐ Disable

**Remote Router Access**

Remote Management: ☐ Enable ☒ Disable

Management Port:

Use https: ☐

**UPnP**

UPnP: ☒ Enable ☐ Disable

**Local Router Access:** You can change the Router's password from here. Enter a new Router password and then type it again in the Re-enter to confirm field to confirm.

**Web Access:** Allows you to configure access options to the router's web utility. **More...**

**Remote Router Access:** Allows you to access your router remotely. Choose the port you would like to use. You must change the password to the router if it is still using its default password.

**UPnP:** Used by certain programs to automatically open ports for communication. **More...**

Save Settings Cancel Changes

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- 2 Enter the new **Local Router 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 WRT54G 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.