



USER GUIDE

**AC1900 | 24x8**

**CABLE MODEM ROUTER**

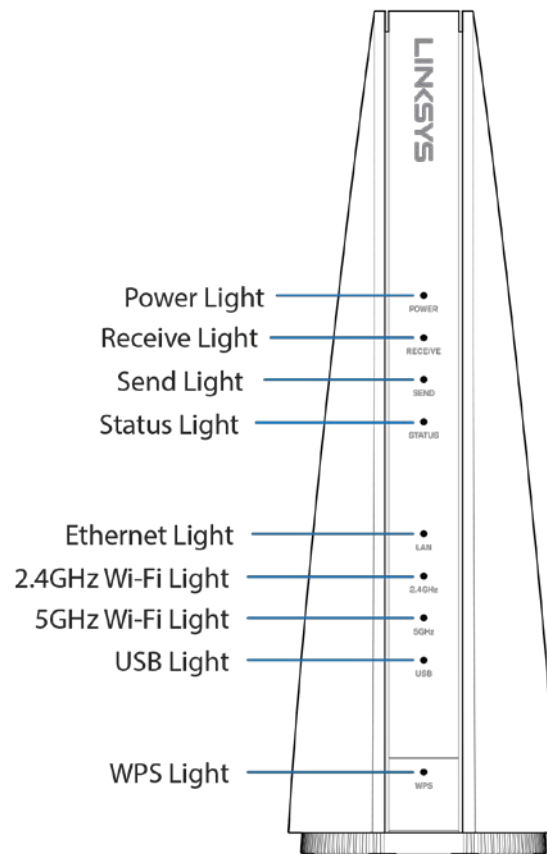
Model CG7500

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# Product Overview

## Front view



*From top to bottom*

**Power**—Lights up green when the modem router is powered on.

**Receive**— Light blinks green while the modem router is searching for a connection over the cable network. Light is solid green when the modem router is receiving data from the cable network. Light is solid blue during multichannel bonding.

**Send**—Light blinks green while the modem router is searching for a connection over the cable network. Light is solid green when the modem router is sending data to the cable network. Light is solid blue during multichannel bonding.

**Status**— Lights up green when the modem router has an Internet connection. Flashes green while the modem router is establishing the Internet connection.

**Ethernet**—Light is solid green when the modem router is connected to a device through the LAN port.

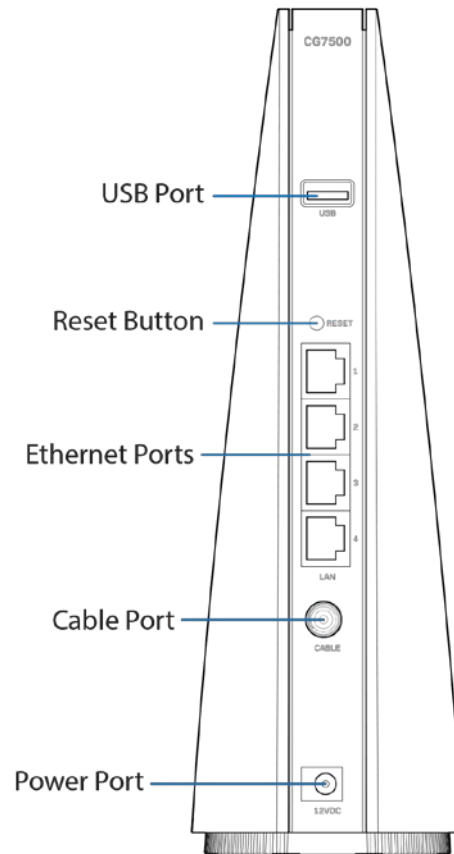
**2.4 GHz Wi-Fi**—Light is solid green when broadcasting 2.4 GHz signal. Light blinks when the modem router is actively sending or receiving data over the network.

**5 GHz Wi-Fi**—Light is solid green when broadcasting 5 GHz signal. Light blinks when the modem router is actively sending or receiving data over the network.

**USB**—Light is solid green when the modem router is connected to a device through the USB port.

**WPS**—Light is solid green when a Wi-Fi Protected Setup™ connection is successfully established. Light blinks slowly while WPS is setting up a connection, and blinks rapidly if an error occurs. Light is off when WPS is idle.

## Back



*From top to bottom*

**USB port**—Connect and share a USB drive on your network or on the internet.

**Reset button**—Press and hold for about five seconds to reset the modem router to factory defaults.

**Ethernet ports**— Connect the modem router to computers and other devices with ethernet cables (also called network cables).

**Cable port**— Connect the modem router to an active cable signal with a coaxial cable.

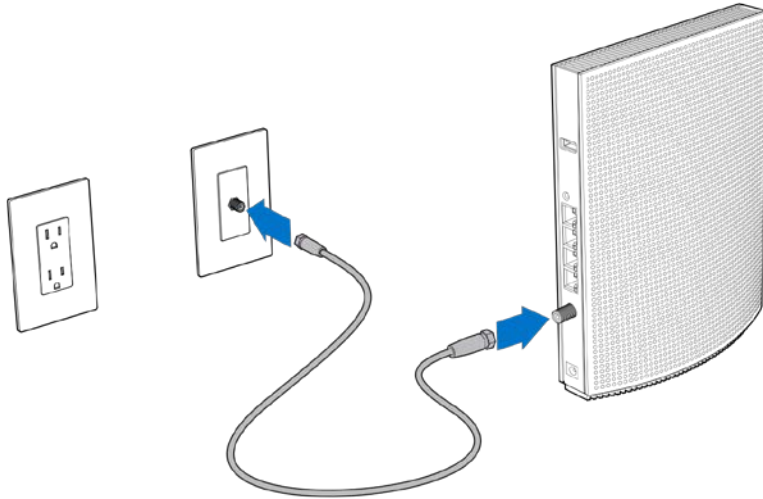
**Power port**—Connect to the included power adapter.

# Installation

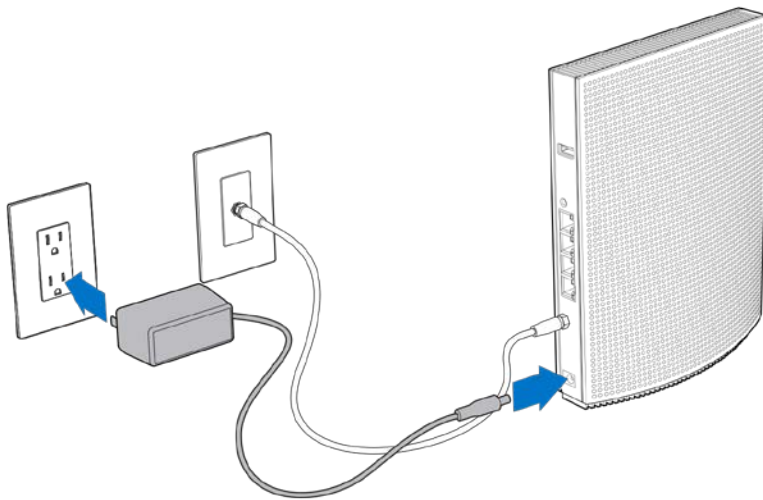
## Setup

Disconnect any modems or modem routers before setting up your new modem router.

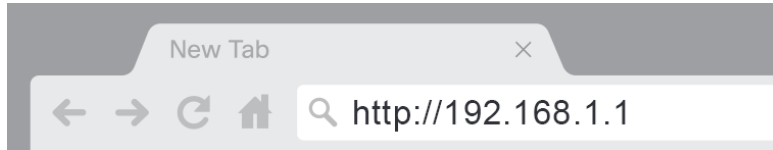
1. Connect the provided coaxial cable to the cable port on the modem router and a wall jack.



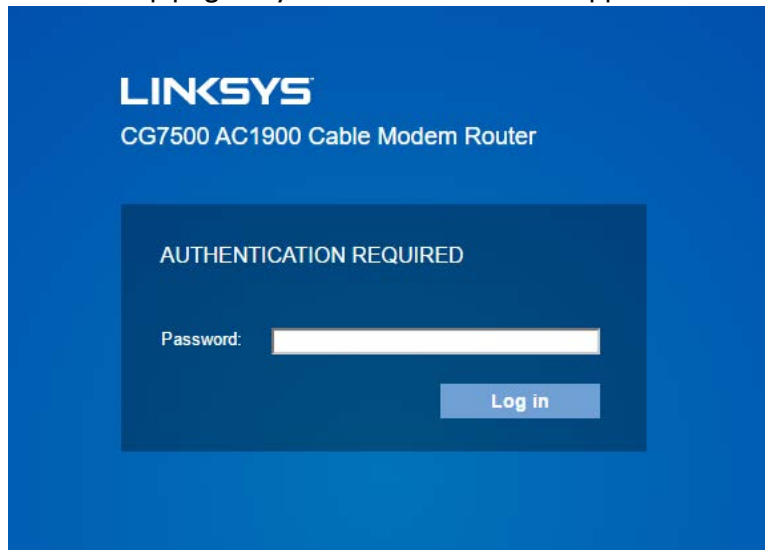
2. Connect the power adapter to the modem router and plug into a power source.



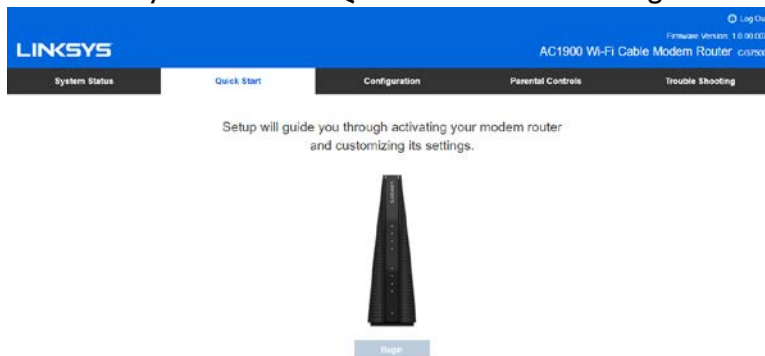
3. Connect to the secure Wi-Fi name on the sticker in the Quick Start Guide that came with your modem router. There is also a sticker on the bottom of the modem router. (You can change these details later.) Select the option to automatically connect to this network in the future. You will not have internet access until you complete modem router setup.
4. Open a web browser and type <http://192.168.1.1> in the address bar.



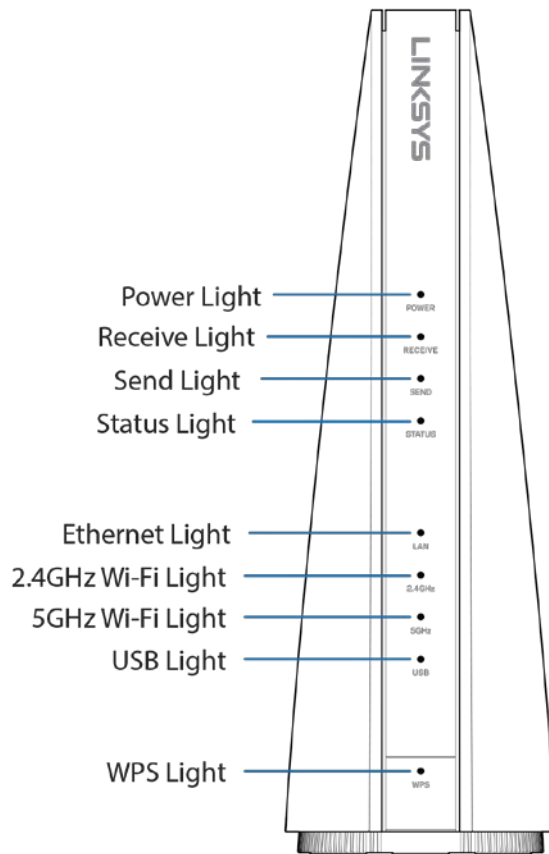
5. In the pop-up window, enter "admin" in the Password field. Click Log in. The web-based setup page of your modem router will appear.



6. Make sure you are on the *Quick Start* tab. Click Begin to start the setup wizard.



7. When your modem router is ready, the top four lights (power, receive, send, status) will be solid.



Advanced users can select “I want to skip the Setup and configure the router manually.”



## Let's get started

Setup will guide you through activating your modem router and customizing its settings.

☒ I have read and accepted the [License Terms for using this software](#)

☒ I want to skip the Setup and configure the modem router manually

Done



If you choose to manually set up the modem router, you will need to have the following information available for activation:

- Account number of your broadband subscription
- Phone number linked with your account
- Serial number of the modem router (on the back of the unit)
- MAC address of the modem router (on the back of the unit)

To activate:

Open a web browser from a computer that's connected directly to the modem router. This is where you will need the information above (account number of your broadband service, phone number and new modem router device identifiers).

Some service providers have additional setup steps that will automatically appear in the browser – if not, visit the appropriate link below. Follow the steps for your internet provider or call them if you are unable to get online.

Note—The modem router may reboot several times during this process and activation can take up to five minutes.

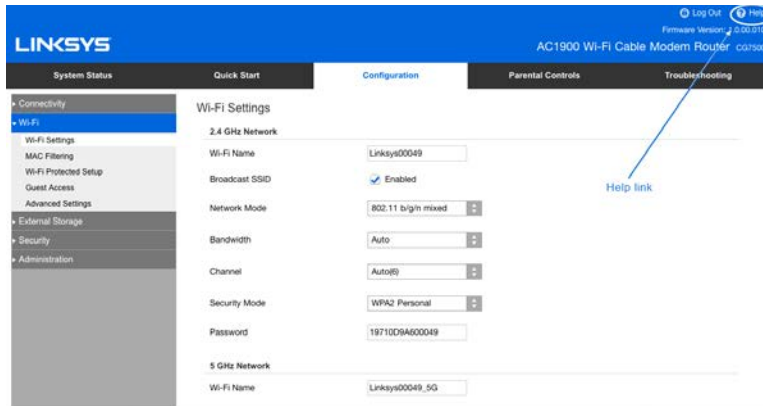
After activation, you should be able to connect to the internet wirelessly via your modem router or a wired connection between your computer and the modem router.

Helpful links:

- <https://install.charter.com/>
- <https://activation.cox.net>
- [www.xfinity.com/activate](http://www.xfinity.com/activate)

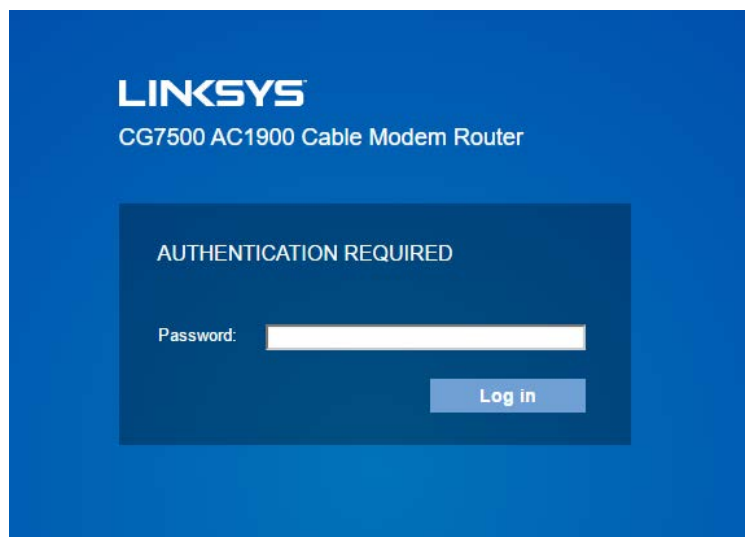
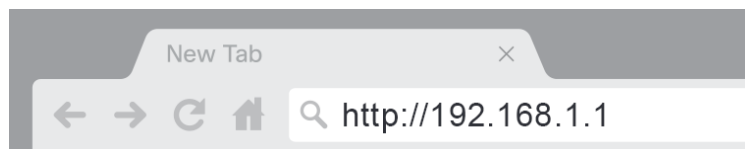
# Browser-Based Utility

If you would like to change the modem router's advanced settings, use the browser-based utility. For more help with the utility, click the *Help* link in the upper-right corner of the screen or go to our support website [www.linksys.com/support/cg7500](http://www.linksys.com/support/cg7500).



## How to access the browser-based utility

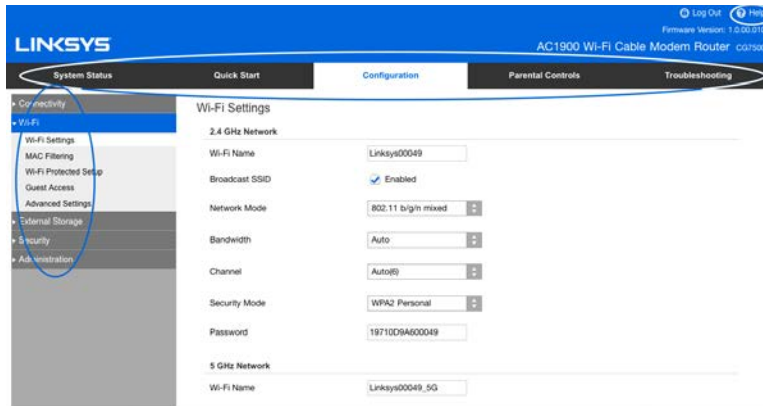
1. Launch the web browser on your computer, and enter the router's default Internet Protocol (IP) address, 192.168.1.1, in the address field. Press Enter.



2. In the *Password* field, enter the password created during setup. If you did not change the password, the default is "admin".
3. Click **Log in** to continue.

# How to use the browser-based utility

Navigate the utility by using the tabs along the top of the screen and the corresponding specific menus down the left side of the screen.



If you change any settings on a screen, you must click the **Save** button at the bottom of the screen to apply your changes. Likewise, click **Cancel** to clear your changes.

**Note**—To learn more about any field, click the [Help](#) link in the upper-right corner of the screen.

# System Status

## Status

### Status > Overview

The screenshot shows the Linksys System Status Overview page. The top navigation bar includes 'Log Out' and 'Help' links, and the firmware version '1.0.00.010'. The main navigation tabs are 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar shows 'Status' with sub-items 'Overview', 'System Information', and 'Wi-Fi'. The main content area displays 'UPTIME' with 'Internet Uptime' at '001 days 02h:21m:12s' and 'Router Uptime' at '001 days 02h:23m:50s'. Below this, the 'Wi-Fi' section shows '2.4 GHz' and '5 GHz' settings, including 'Wi-Fi Name' and 'Password' (with a 'show' link). The 'PARENTAL CONTROLS' section has a table with columns 'Device', 'MAC Address', and 'Managed Days'.

Device	MAC Address	Managed Days
--------	-------------	--------------

Overview tells you how long the router has been working since its last restart (Router Uptime), and how long it has been connected to the internet (Internet Uptime) in that period. This screen also shows your Wi-Fi name and password, and some details on any Wi-Fi devices managed by Parental Controls.

### Status > System Information

The screenshot shows the Linksys System Status System Information page. The top navigation bar includes 'Log Out' and 'Help' links, and the firmware version '1.0.00.010'. The main navigation tabs are 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar shows 'Status' with sub-items 'Overview', 'System Information', and 'Wi-Fi'. The main content area displays 'System' information in a table format.

System Information	
Hardware Version	QA
Software Version	1.0.00.010
Cable Modem Router Serial Number	1971CD9A000049
HFC MAC Address	60:38:e0:1a:ba:c0
System Time	Tue, 31 Jan 2017 14:01:39
Time Zone	UTC-08:00 Pacific Time (US & Canada)
WAN IP Address	192.168.66.40
WAN IP Address (IPv6)	
WAN Receiving	2.26M Bytes
WAN Sending	751.76K Bytes
Internet Uptime	001 days 02h:22m:43s
LAN IP Address	192.168.1.1/24

System Information page shows basic information such as the MAC address, software version, and the time that has elapsed since the last restart etc.

## Status > Wi-Fi

The Wi-Fi screen provides detail about all Wi-Fi bands, including Guest Wi-Fi. Clicking the Wireless Clients button displays details about any connected Wi-Fi devices.

The screenshot shows the Linksys web interface for an AC1900 Wi-Fi Cable Modem Router. The top navigation bar includes links for Log Out, Help, and Firmware Version: 1.0.06.010. The main navigation menu has tabs for System Status, Quick Start, Configuration, Parental Controls, and Troubleshooting. The left sidebar shows a tree view with Status, Overview, System Information, and Wi-Fi. The main content area is titled 'Wi-Fi Status' and displays the following information:

- Wi-Fi Status (2.4 GHz):** Enabled
- Network Mode (2.4 GHz):** 802.11 b/g/n Mixed
- Channel (2.4 GHz):** Auto(1)
- Wi-Fi Status (5 GHz):** Enabled
- Network Mode (5 GHz):** 802.11 a/n/ac Mixed
- Channel (5 GHz):** Auto(153)

Below this is a section for **Wi-Fi Overview** with a table showing Guest SSID details:

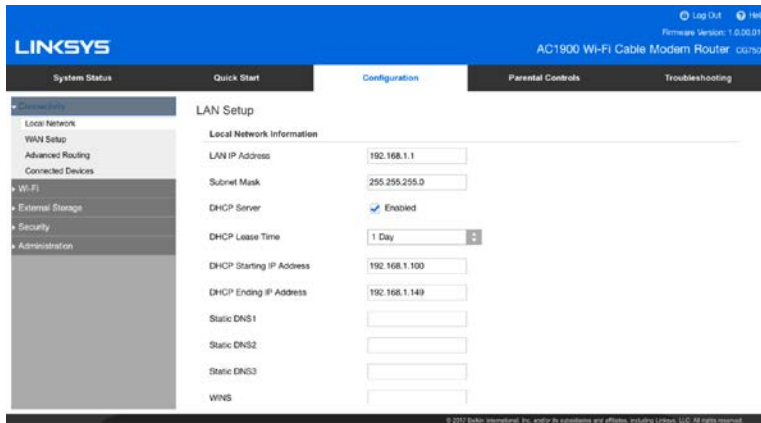
Wi-Fi Name	Status	Password	Security Mode
Linksys0049	Enabled	19710D9A600049	WPA2 Personal
Linksys0049_5G	Enabled	19710D9A600049	WPA2 Personal

At the bottom, there is a link for **Guest SSID Overview**.

# Configuration

## Connectivity

### Connectivity > Local Network



Your router ships with the most common settings, and several settings are configured during setup. You may never have to change these settings.

#### LAN IP Address

The router's IP address on your Wi-Fi. If you change this address, you'll have to reconnect your devices to your router.

#### Subnet Mask

The router's subnet mask on your Wi-Fi. It is used to divide a network into subnets so information can be routed correctly to computers and devices.

#### DHCP Server

DHCP (Dynamic Host Configuration Protocol) is enabled by default. DHCP assigns IP addresses as needed to devices connected to your Wi-Fi.

#### DHCP Starting Address

The value that the DHCP server starts with when issuing IP addresses.

#### DHCP Ending Address

The value that the DHCP server ends with when issuing IP addresses.

#### DHCP Lease Time

The amount of time a Wi-Fi user is allowed connection to the router with her current IP address. When the time has expired, the user will be automatically assigned a new IP address, or the lease will be renewed.

## Static DNS 1-3

Domain Name System (DNS) is how the internet translates a domain or website name into an internet address, or URL, that you can access. Your ISP will provide at least one DNS server IP address. You can enter up to three.

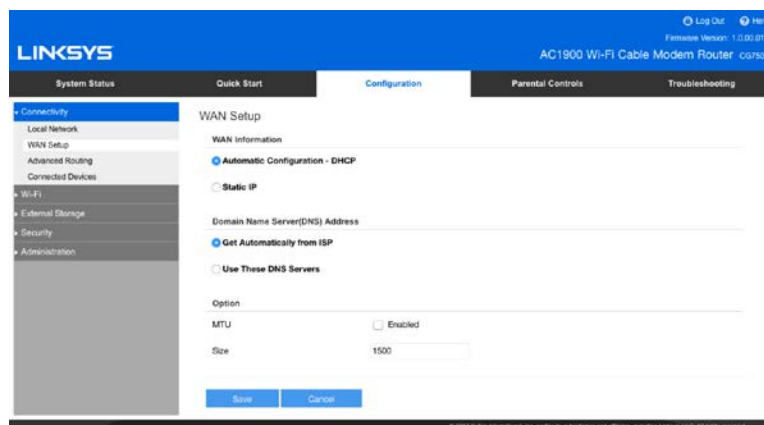
## WINS

Windows Internet Naming Services manages each computer's interaction with the internet. If you use WINS a server, enter the server's IP address. Otherwise, leave it blank.

## DHCP Reservations

Click to add or change the DHCP reservations used on your Wi-Fi. DHCP reservations allow you to assign a unique, fixed IP address to a specific device on your Wi-Fi. This is helpful when managing devices such as print servers, cameras, printers or game consoles. A fixed IP address is also recommended if you want to use port forwarding for devices that need to receive inbound data from the internet. To assign an IP address and MAC address to a device, click **Add** and then enter the device name, IP address, and MAC address. When finished, click **Apply**.

## Connectivity > WAN Setup

The screenshot shows the Linksys web interface for WAN Setup. The top navigation bar includes 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar lists various settings categories like 'Connectivity', 'Wi-Fi', 'External Storage', 'Security', and 'Administration'. The main content area is titled 'WAN Setup' and contains 'WAN Information' with two radio button options: 'Automatic Configuration - DHCP' (selected) and 'Static IP'. Below these are fields for 'Domain Name Server(DNS) Address' with two sub-options: 'Get Automatically from ISP' (selected) and 'Use These DNS Servers'. There is also an 'Option' section with 'MTU' (checkbox for 'Enabled') and 'Size' (a text box with '1500'). At the bottom are 'Save' and 'Cancel' buttons.

## WAN Information

Select your internet connection type. If you don't know, call your ISP.

**Automatic Configuration - DHCP**—Select if your ISP assigns IP addresses dynamically, meaning you get different IP addresses each time you start your computer.

**Static IP**—Select this if you use the same IP address each time you connect to the internet. Enter your internet address, subnet mask, default gateway, and DNS entries. You can get this information from your ISP.

## Domain Name Server Address

Most users get a Domain Name Server address automatically from their ISP. If you subscribe to your own DNS server, select Use These DNS Servers and complete the field(s).

## Option

This section is for advanced users.

### Connectivity > Advanced Routing

The screenshot shows the Linksys web interface for an AC1900 Wi-Fi Cable Modem Router (CG7500). The top navigation bar includes 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar lists 'Connectivity' (Local Network, WAN Setup, Advanced Routing, Connected Devices), 'Wi-Fi', 'External Storage', 'Security', and 'Administration'. The main content area is titled 'Advanced Routing' and contains a 'Static Routing Table' with columns: Name, Destination IP Address, Subnet Mask, Default Gateway, Status, and Action. An 'Add' button is below the table, and 'Save' and 'Cancel' buttons are at the bottom. The footer includes copyright information for 2017 Belkin International, Inc.

Click **Add** to assign a specific IP address, subnet mask, and gateway address to a specific device. Click **Apply**.

### Connectivity > Connected Devices

The screenshot shows the Linksys web interface for an AC1900 Wi-Fi Cable Modem Router (CG7500). The top navigation bar includes 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar lists 'Connectivity' (Local Network, WAN Setup, Advanced Routing, Connected Devices), 'Wi-Fi', 'External Storage', 'Security', and 'Administration'. The main content area is titled 'Connected Devices' and contains a table with columns: Device, IP Address, MAC Address, Type, and Interface. The table lists one device: 'ProductmentsMBP' with IP Address '192.168.1.101', MAC Address '00:25:00:4b:28:24', Type 'DHCP-IP', and Interface 'WIFI-5G'. A 'Refresh' button is below the table. The footer includes copyright information for 2017 Belkin International, Inc.

Information about devices connected to your Wi-Fi.



# Wi-Fi

## Wi-Fi > Wi-Fi Settings

The screenshot shows the Linksys web interface for the AC1900 Wi-Fi Cable Modem Router (CG7500). The top navigation bar includes 'Log Out' and 'Help' links, and the firmware version is 1.0.00.010. The main navigation menu has tabs for 'System Status', 'Quick Start', 'Configuration', 'Parental Controls', and 'Troubleshooting'. The left sidebar lists various settings categories: Connectivity, Wi-Fi, MAC Filtering, Wi-Fi Protected Setup, Guest Access, Advanced Settings, External Storage, Security, and Administration. The 'Wi-Fi' category is selected, and the 'Wi-Fi Settings' page is displayed. The page is divided into two sections: '2.4 GHz Network' and '5 GHz Network'. The '2.4 GHz Network' section includes fields for 'Wi-Fi Name' (CG7500GUI), 'Broadcast SSID' (Enabled), 'Network Mode' (802.11 b/g/n mixed), 'Bandwidth' (Auto), 'Channel' (Auto(6)), 'Security Mode' (WPA2 Personal), and 'Password' (11111111). The '5 GHz Network' section includes a 'Wi-Fi Name' field (CG7500GUI). A copyright notice at the bottom reads: '© 2017 Belkin International, Inc. and/or its subsidiaries and affiliates, including Linksys, LLC. All rights reserved.'

### Wi-Fi Name

Personalize the Wi-Fi name that appears in the list of available networks.

### Broadcast Wi-Fi Name

Allows Wi-Fi devices to detect your Wi-Fi name when they survey the local area for available Wi-Fi. Not broadcasting your Wi-Fi name does not improve your Wi-Fi security.

### Network Mode

Select the standard your Wi-Fi supports.

### Bandwidth

The *Auto* setting provides the best performance with Wireless-B, Wireless G, and Wireless N (2.4 GHz), Wireless-A, Wireless-N, Wireless-AC (5 GHz) devices. For a channel width of 20 MHz, select *20 MHz only*.

### Channel

Select the channel for Wireless-B, Wireless-G, Wireless-N, Wireless-A, or Wireless-AC networking. If you're not sure which one to use, choose *Auto*.

### Security Mode

Each device on your Wi-Fi must use the same security mode.

### Password

Wi-Fi devices must enter this password, sometimes called a security key, to connect to your Wi-Fi.

## Wi-Fi > MAC Filtering

The screenshot shows the Linksys configuration interface for an AC1900 Wi-Fi Cable Modem Router (CG7500). The top navigation bar includes 'Log Out', 'Help', and 'Firmware Version: 1.0.00.010'. The main navigation tabs are 'System Status', 'Quick Start', 'Configuration' (selected), 'Parental Controls', and 'Troubleshooting'. The left sidebar shows a tree view with 'Connectivity' expanded, and 'Wi-Fi' selected. Under 'Wi-Fi', 'MAC Filtering' is highlighted. The main content area is titled 'Wi-Fi MAC Filters'. It features a 'MAC Filters' section with an 'Enabled' checkbox. Below this is a 'Connected Devices' section with a 'Refresh' button and a table listing connected devices. The table has columns for Device, IP Address, MAC Address, Type, Interface, and Action. One device, 'ProductmentsMBP', is listed with IP 192.168.1.101 and MAC 00:25:00:4b:28:24. Below the table is a 'Managed Wi-Fi MAC Filters' section with 'Filter Options' set to 'Deny Access List'. There is a table with columns for Device, MAC Address, and Action, and an 'Add MAC Address' button. At the bottom are 'Save' and 'Cancel' buttons. A copyright notice at the very bottom reads: '© 2017 Belkin International, Inc. and/or its subsidiaries and affiliates, including Linksys, LLC. All rights reserved.'

LINKSYS<sup>™</sup> AC1900 Wi-Fi Cable Modem Router CG7500

System Status Quick Start **Configuration** Parental Controls Troubleshooting

Connectivity  
Wi-Fi  
Wi-Fi Settings  
MAC Filtering  
Wi-Fi Protected Setup  
Guest Access  
Advanced Settings  
External Storage  
Security  
Administration

### Wi-Fi MAC Filters

MAC Filters ☐ Enabled

Connected Devices [Refresh](#)

Device	IP Address	MAC Address	Type	Interface	Action
ProductmentsMBP	192.168.1.101	00:25:00:4b:28:24	DHCP-IP	WiFi-5G	<a href="#">Manage</a>

### Managed Wi-Fi MAC Filters

Filter Options ☐ Allow Access List ☒ Deny Access List

Device	MAC Address	Action
--------	-------------	--------

[Add MAC Address](#)

[Save](#) [Cancel](#)

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MAC filtering is a way to allow or deny access to your network by identifying specific MAC addresses. It is not a good substitute for a secure Wi-Fi password. If you enable MAC Filtering, Wi-Fi Protected Setup will be disabled automatically.

### MAC Filters

Select *Enabled* to begin filtering Wi-Fi devices by MAC address.

### Filter Options

*Allow Access List* limits access to devices whose MAC addresses are listed. All other devices will be denied. *Deny Access List* allows you to create a list of MAC addresses that cannot access your network. All devices not on that list will be able to connect to your network.

### Add MAC Address

Add a MAC address to your list.

## Wi-Fi > Wi-Fi Protected Setup

The screenshot shows the Linksys web interface for an AC1900 Wi-Fi Cable Modem Router. The top navigation bar includes 'Log Out', 'Help', and 'Firmware Version: 1.0.00.010'. The main navigation tabs are 'System Status', 'Quick Start', 'Configuration' (selected), 'Parental Controls', and 'Troubleshooting'. The left sidebar shows a tree view with 'Connectivity' expanded, containing 'Wi-Fi' (selected), 'Wi-Fi Settings', 'MAC Filtering', 'Wi-Fi Protected Setup', 'Guest Access', and 'Advanced Settings'. Other categories include 'External Storage', 'Security', and 'Administration'. The main content area is titled 'Wi-Fi Protected Setup™'. It features a 'WPS Enabled' checkbox that is checked and labeled 'ON'. Below this is a warning box with an orange exclamation mark icon stating: 'Wi-Fi Protected Setup cannot be used with WEP, WPA2 Enterprise or WPA/WPA2 Enterprise Mixed security mode or setting broadcast SSID or network mode (2.4G or 5G) disable or MAC Filtering. To use Wi-Fi Protected Setup, change your Wi-Fi security mode, broadcast SSID, network mode and/or disable MAC Filtering.' Under the 'Push Button' section, there is a text box explaining that if a client device has a Wi-Fi Protected Setup button, it should be clicked or pressed, followed by clicking the button on the router page. To the right of this text is a circular icon with a Wi-Fi symbol and a circular arrow. At the bottom, there is a 'Router PIN' label and an empty input field. The footer contains the copyright notice: '© 2017 Belkin International, Inc. and/or its subsidiaries and affiliates, including Linksys, LLC. All rights reserved.'

Wi-Fi Protected Setup makes it easy to add devices to your Wi-Fi without having to enter a Wi-Fi name and password. To use Wi-Fi Protected Setup, the device you want to connect must support it.

### WPS Enabled

If you uncheck this box, you can't use Wi-Fi Protected Setup to connect devices to your Wi-Fi, and the Wi-Fi Protected Setup push button on your router will also be disabled.

### Push Button

Use this if your device has a Wi-Fi Protected Setup button or prompts you to press the Wi-Fi Protected Setup button on your router. Press or click the Wi-Fi Protected Setup button on the device you want to connect to Wi-Fi, and then click the button on this page.

### Router PIN

Use this if the device you're connecting asks for the router PIN (Personal Identification Number). The router PIN is also listed on the bottom of the modem router.

### Device PIN

Use this if your device has a Wi-Fi Protected Setup PIN. Enter the PIN from the device into the PIN field and then click **Register**.

## Wi-Fi > Guest Access

The screenshot shows the Linksys configuration interface for an AC1900 Wi-Fi Cable Modem Router. The top navigation bar includes 'System Status', 'Quick Start', 'Configuration' (selected), 'Parental Controls', and 'Troubleshooting'. The left sidebar lists various settings categories, with 'Wi-Fi' expanded to show 'Wi-Fi Settings', 'MAC Filtering', 'Wi-Fi Protected Setup', 'Guest Access' (selected), 'Advanced Settings', 'External Storage', 'Security', and 'Administration'. The main content area is titled 'Guest Wi-Fi Settings' and contains the following options:

- Guest Wi-Fi 2.4 GHz: ☐ Enabled
- 2.4 GHz SSID: Linksys00049-Guest
- Guest Wi-Fi 5 GHz: ☐ Enabled
- 5 GHz SSID: Linksys00049-Guest-5G
- Guest Wi-Fi Password: BeMyGuest
- Max Guest Allowed: 5 Guests

At the bottom of the settings area are 'Save' and 'Cancel' buttons. The footer of the page reads: '© 2017 Belkin International, Inc. and/or its subsidiaries and affiliates, including Linksys, LLC. All rights reserved.'

Guest Access is a way to share internet access. Guests can get online, but they can't see or access other connected devices. You can turn guest access on and off, give it a name and password, and set the number of guest devices allowed.

When you set up your router, a secure guest network was created automatically on the router's 2.4 GHz/5 GHz band. Guest access is available on these two bands. Be sure to keep this in mind if you're connecting other networking devices, such as an extender. It should be configured to use the 2.4 GHz/5 GHz band as well if you plan to use guest access.

## Wi-Fi > Advanced Settings

The screenshot shows the Linksys configuration interface for an AC1900 Wi-Fi Cable Modem Router, specifically the 'Advanced Wi-Fi Settings' page. The top navigation bar and left sidebar are identical to the previous screenshot. The main content area is titled 'Advanced Wi-Fi Settings' and contains the following options:

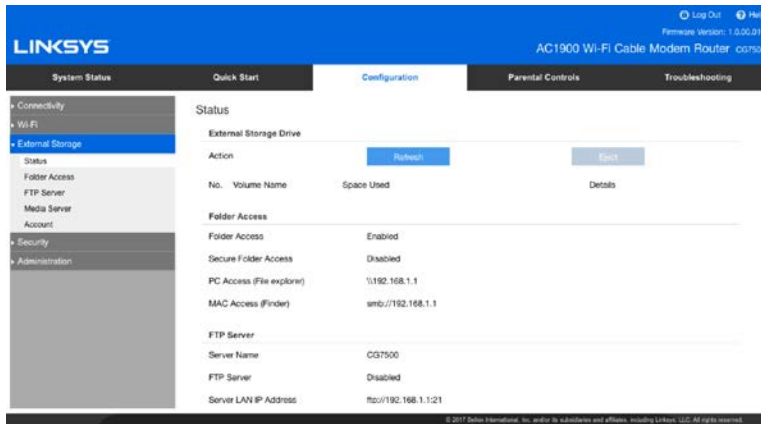
- IGMP Snooping: ☒ Enabled
- Wi-Fi Site Survey: [Wi-Fi Survey](#)
- Wi-Fi Client: [Wi-Fi Client](#)

At the bottom of the settings area are 'Save' and 'Cancel' buttons. The footer of the page reads: '© 2017 Belkin International, Inc. and/or its subsidiaries and affiliates, including Linksys, LLC. All rights reserved.'

IGMP Snooping is turned on by default. Only advanced users should turn off this setting.

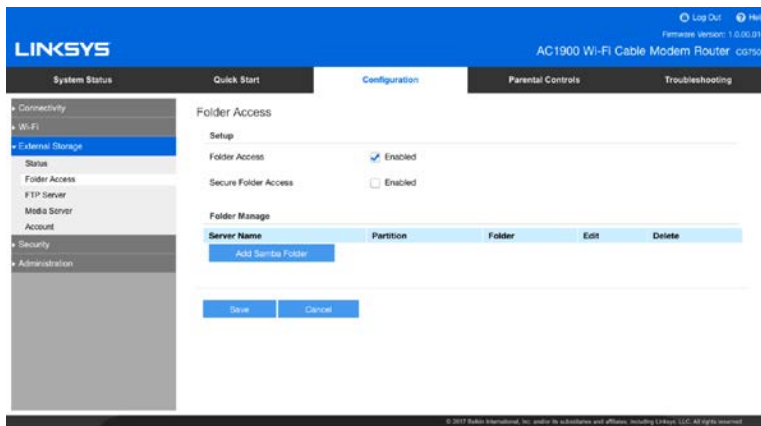
# External Storage

## External Storage > Status



Click **Eject** before physically disconnecting a USB disk from the modem router. This prevents the possible loss of data, which may occur if you remove the disk while it is transferring data.

## External Storage > Folder Access



You can decide who has access to external storage connected by USB to your modem router. When Shared Status is disabled, anyone on your network can access all content on your storage device. If it is enabled, you can specify which users can see which content.

Click **Eject** before physically disconnecting a USB disk from the modem router. This prevents the possible loss of data, which may occur if you remove the disk while it is transferring data.

## External Storage > FTP Server

LINKSYS  
AC1900 Wi-Fi Cable Modem Router  
Firmware Version: 1.0.0.0.010  
Log Out Help

System Status Quick Start Configuration Parental Controls Troubleshooting

Connectivity  
Wi-Fi  
External Storage  
Status  
Folder Access  
FTP Server  
Media Server  
Account  
Security  
Administration

### FTP Server

Setup

Server Name: CG7800

FTP Server: ☐ Enabled

Internet Access: ☐ Enabled

FTP Port: 21

Folder Manage

Server Name	Partition	Folder	Edit	Delete
<a href="#">Add FTP Folder</a>				

[Save](#) [Cancel](#)

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You can access the folders on your storage device remotely from anywhere you have an internet connection using an FTP (File Transfer Protocol) server. You can access the content using a web browser or FTP software.

Server Name – Personalized the name of your FTP server.

### FTP Server

Select to enable the FTP server, and make content available remotely.

### Internet Access

Select to allow access to your storage device with a web browser.

### FTP Port

The default port, 21, will work for most users. Advanced users may change to a different port to serve their needs.

### Add FTP Folder

To add a FTP folder, enter the server name and the information to use.

## External Storage > Media Server

LINKSYS  
AC1900 Wi-Fi Cable Modem Router  
Firmware Version: 1.0.0.0.010  
Log Out Help

System Status Quick Start Configuration Parental Controls Troubleshooting

Connectivity  
Wi-Fi  
External Storage  
Status  
Folder Access  
FTP Server  
Media Server  
Account  
Security  
Administration

### Media Server

Setup

Media Server: ☒ Enabled

Server Name: CG7800

Scan Interval: 2 Hours [Scan Now](#)

Shared Media Folders

Share Name	Folder Location	Share Type	Status	Edit	Delete
<a href="#">Add New Folder</a>					

[Save](#) [Cancel](#)

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A media server lets you share across your network content on an attached external storage device. You can share media with devices that are UPnP AV (Audio and Video)-enabled or DLNA (Digital Living Network Alliance)-certified devices in your home. These

include digital media players, gaming consoles with a built-in media player, and digital picture frames.

You can specify which folders are used by the media server, add and disabled/delete folders, and specify how often the folders are scanned for new content.

## Media Server

Select to share media.

## Server Name

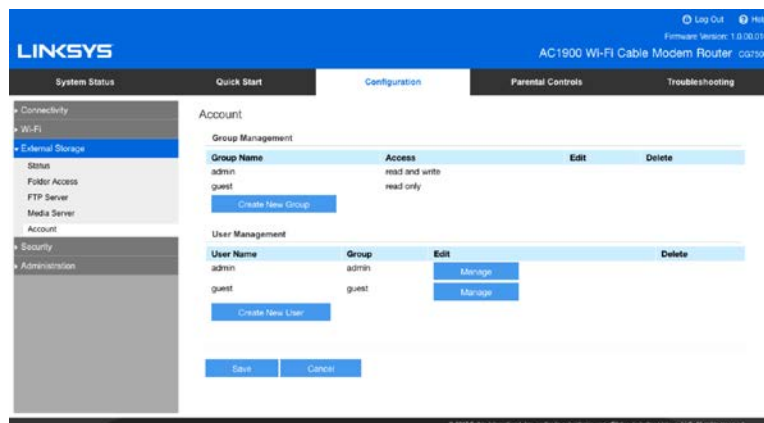
Personalize the display name of your UPnP media server.

## Scan Interval

Specify how often the modem router scans folders on the external storage device for new content. Scanning can take several hours, especially the first time the device is scanned, or if you add a lot of new content. Subsequent scans should take less time. To scan the folders immediately, click **Scan Now**.

Click **Add New Folder** to add a new shared media folder. Select the folder on the attached external storage device that contains the content you want to share.

## External Storage > Account



Two user accounts are preset for the modem router: admin and guest. The password for the admin user is the modem router's admin password. The password for the guest user is "guest".

## Group Management

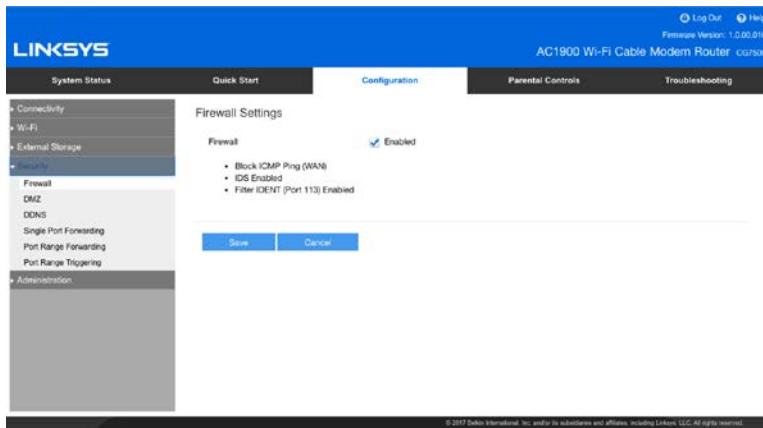
If you want to add to the default groups, click **Create New Group** and enter the name, description and the type of permission the group will have. Select *Read and Write* to allow the group to view, edit, or delete content. Select *Read Only* to limit the group to viewing content.

## User Management

If you want to add a user to one of your groups, click **Create New User** and enter a user name, description, and password, and assign the user to a group.

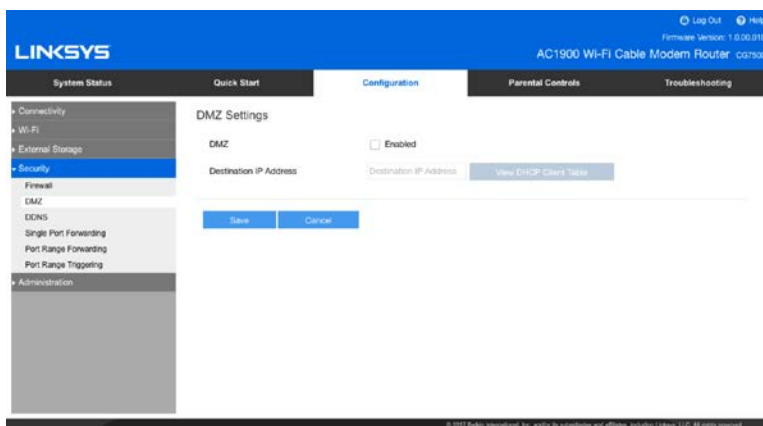
# Security

## Security > Firewall



The firewall, which protects your Wi-Fi from internet threats, is enabled by default.

## Security > DMZ

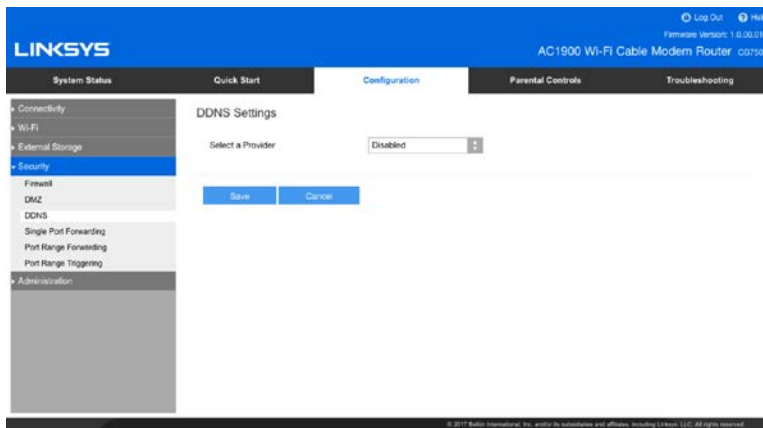


The Demilitarized Zone (DMZ) feature can be used to expose a web server, mail server, or web camera to the internet so anyone can access it. This feature is not recommended because it presents significant security risks to the device that you designate for the DMZ. The device will not be protected by the built-in firewalls, internet filters, or modem router web filters.

With DMZ enabled, use the *Destination IP Address* to identify the device you wish to be in the DMZ. Click **View DHCP Client Table** to see a list of connected devices. Select the IP address of the desired device and it will automatically populate the *Destination IP Address* field.



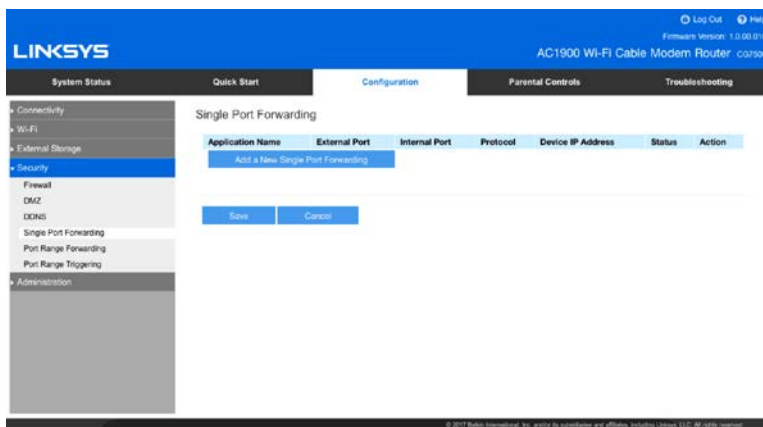
## Security > DDNS



The DDNS feature lets you configure a domain name for your home network, which you can use to easily find your network on the internet. This is useful if you want to remotely access a USB drive or web camera over the internet.

Select your DDNS service and complete the fields with information provided to you by your DDNS provider.

## Security > Single Port Forwarding



Single Port Forwarding directs inbound traffic from the internet on a specific port to a single device on your Wi-Fi. For example, forwarding inbound web requests, typically on port 80, to a web server. To forward to multiple ports, create additional entries to forward additional ports to the same IP address. Click **Add a New Single Port Forwarding**.

### Application name

The application or device name using port forwarding. Refer to your device's documentation for recommendations if needed.

### External Port

Enter the external port number.

### Internal Port

Enter the internal port number.

## Protocol

Select the protocol to use.

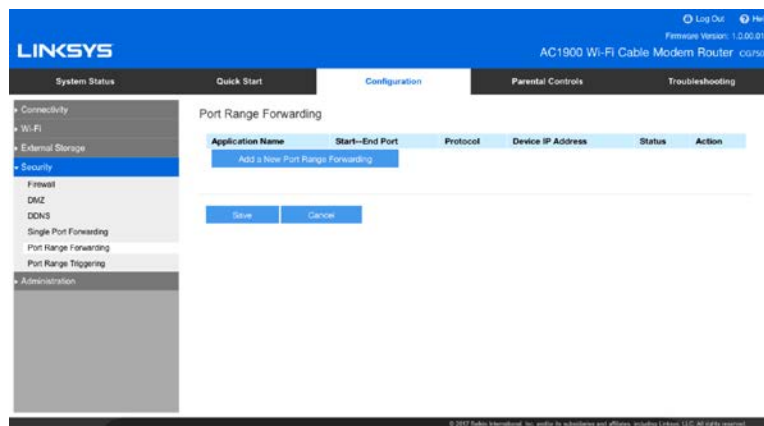
## Device IP Address

Enter the IP address you have reserved for the computer you want to forward internet traffic to.

## Status

Select to use the port forwarding. If you don't want to use port forwarding but want to keep the information in the table, unselect the checkbox.

## Security > Port Range Forwarding



Port forwarding directs inbound traffic from the internet on range of ports to a specific device on your Wi-Fi. For example, some applications can use a range of ports so that if one port is busy, they can try another one. Click **Add a New Port Range Forwarding**.

## Application name

The application or device name using port forwarding.

## Start-End Port

The port number or range of ports used by the application or device for port forwarding. To specify a range of ports, separate the first and last port numbers with a dash, for example, 5800-5900.

## Protocol

Select the protocol to use, typically TCP.

## Device IP Address

Enter the last three digits of the IP address of the computer running the software that requires port forwarding.

## Status

Select to use port range forwarding. If you don't want to use port forwarding but want to keep the information in the table, unselect the checkbox.

## Security > Port Range Triggering

The screenshot shows the Linksys configuration interface for the AC1900 Wi-Fi Cable Modem Router. The left sidebar contains a navigation menu with categories: Connectivity, Wi-Fi, External Storage, Security, and Administration. The 'Security' category is expanded, showing options like Firewall, DMZ, DDNS, Single Port Forwarding, Port Range Forwarding, and Port Range Triggering. The 'Port Range Triggering' option is selected. The main content area is titled 'Port Range Triggering' and features a table with columns: Application Name, Trigger Range, Forward Range, Protocol, Status, and Action. Below the table is a button labeled 'Add a New Port Range Triggering'. At the bottom of the main area are 'Save' and 'Cancel' buttons. The top of the page includes the Linksys logo, system status, quick start, configuration, parental controls, and troubleshooting tabs. The top right corner shows 'Log Out' and 'Help' links, along with the firmware version (1.0.0.0.010) and the device model (C3700).

Port range triggering allows the modem router to watch outgoing data for specific port numbers. The cable modem remembers the IP address of the device that sends the data so returning data is routed back to the proper device. This is useful when using a USB or Bluetooth headset for online chat and gaming. Click Add a New Port Range Triggering.

### Application name

The application or device using port triggering.

### Trigger Port Range/Forward Port Range

The port number or range of ports used by the application or device for port triggering.

### Status

Select to use port range triggering. If you don't want to use port range triggering for that entry, but want to keep the information in the table, unselect the checkbox.

## Administration

### Administration > Password

The screenshot shows the Linksys configuration interface for the AC1900 Wi-Fi Cable Modem Router. The left sidebar contains a navigation menu with categories: Connectivity, Wi-Fi, External Storage, Security, and Administration. The 'Administration' category is expanded, showing options like Password, Time Zone, Remote Management, Gateway Function, Backup, and Device Reset. The 'Password' option is selected. The main content area is titled 'Admin Password' and features three input fields: 'Old Password', 'New Password', and 'Confirm New Password'. Each field has a placeholder text 'Enter Old Password', 'Enter New Password', and 'Confirm New Password' respectively. Below the input fields are 'Save' and 'Cancel' buttons. The top of the page includes the Linksys logo, system status, quick start, configuration, parental controls, and troubleshooting tabs. The top right corner shows 'Log Out' and 'Help' links, along with the firmware version (1.0.0.0.010) and the device model (C3700).

Allows you to change the modem router password. Use it to access modem router settings and features such as Guest Access and Parental Controls. To change the password, first enter the old password, then type a new password and confirm it. Click **Save**. Be sure to write down this password and keep it somewhere safe.

## Administration > Time Zone

The screenshot shows the Linksys configuration interface. The left sidebar has a menu with 'Administration' selected, which includes options like Password, Time Zone, Remote Management, Gateway Function, Backup, and Device Reset. The main content area is titled 'Time Zone' and features a dropdown menu for 'Time Zone' set to 'UTC-08:00 Pacific Time (US & Canada)'. Below this is a checkbox for 'Automatically Adjust for Daylight Saving Time' which is checked and labeled 'Enabled'. At the bottom are 'Save' and 'Cancel' buttons.

Set the current time zone for your area and adjust the time for daylight savings time changes.

## Administration > Remote Management

The screenshot shows the Linksys configuration interface for 'Remote Management'. A warning message states: 'If you enable Remote Management, we recommend changing your admin password for security purposes.' Below this is a table for 'Management Access' with columns for Protocol, On/Off, and Port. The table shows HTTP and HTTPS protocols, both with 'On/Off' checkboxes and corresponding port numbers (8080 and 8181). Below the table is a checkbox for 'Remote Access IP Address Range' labeled 'Allow Any Host to Access the Device Remotely', which is checked and labeled 'Enabled'. At the bottom are 'Save' and 'Cancel' buttons.

Protocol	On/Off	Port
HTTP	<input type="checkbox"/> Enabled	8080
HTTPS	<input type="checkbox"/> Enabled	8181

Select a remote access protocol and identify a port to use when accessing your modem router settings when away from home and not connected to your Wi-Fi.

### Protocol

Select the protocol for remote access.

### On/Off

Enabled/Disabled the remote access.

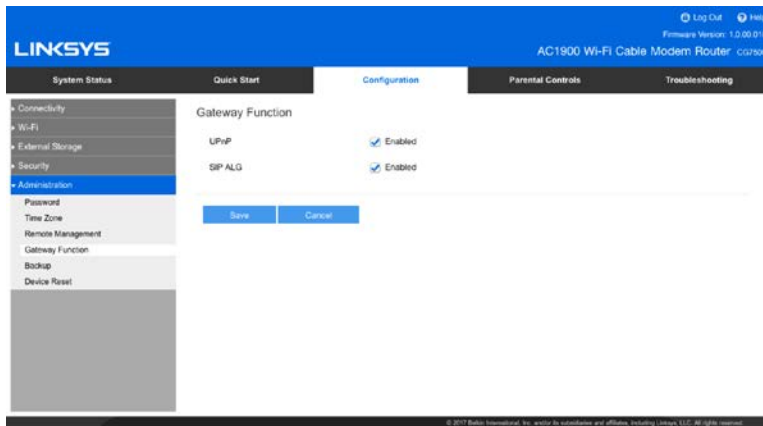
### Port

Enter the port number that will be open to remote access.

### Allow Any Host to Access the Device Remotely

Select to allow remote access to the modem router from any external IP address. Deselect to specify an external IP address or range of IP addresses allowed to remotely access your modem router.

## Administration > Gateway Function

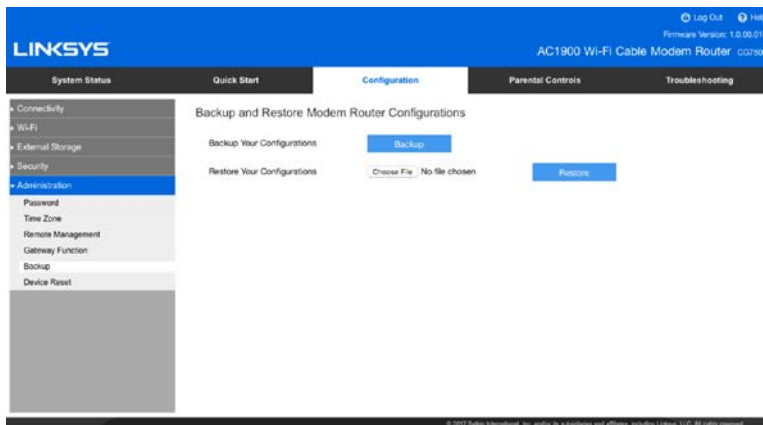


UPnP (Universal Plug and Play) allows devices connected to Wi-Fi to discover each other and automatically create working configurations. Examples of UPnP-capable devices include web cameras, online gaming applications, and VoIP devices. UPnP is enabled by default.

Select to allow users to change router settings or disable your local internet connection while using UPnP.

SIP ALG (Session Initiation Protocol Application Layer Gateway) is a feature that allows certain VOIP service providers to get through your modem router's firewall. Select to use this feature.

## Administration > Backup



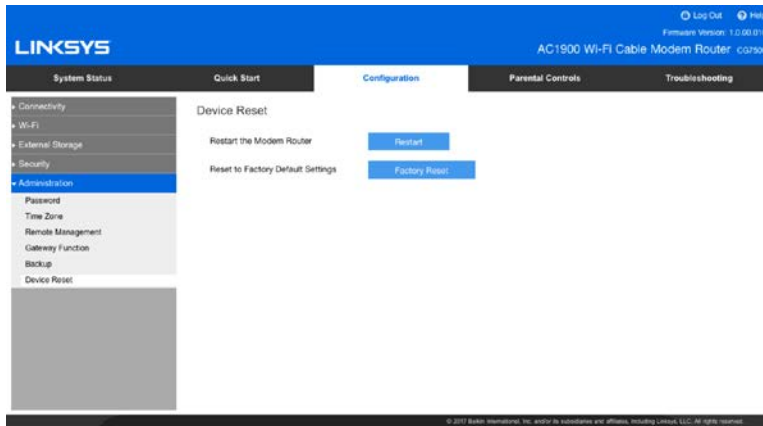
### Backup Your Configurations

Back up your modem router's settings to a file on your computer. You can use the file later if you need to restore the settings. To create a backup file of the current settings.

### Restore Your Configurations

Click **Choose File** and navigate to the backup file you want to restore. Click **Restore**.

## Administration > Device Reset



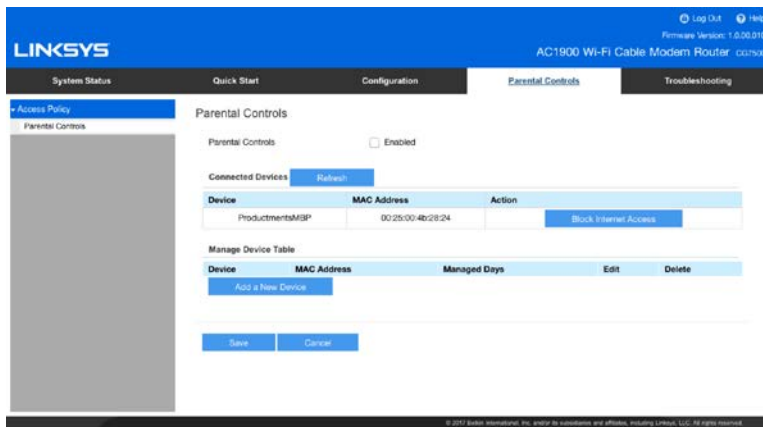
### Restart the Modem Router

Restarts your modem router by turning it off and then on again. All devices connected to your modem router will be disconnected. They will reconnect automatically when the restart finishes.

### Reset to Factory Default Settings

Resets all modem router settings to how they were before you set it up. A reset changes the modem router name, password, security settings, parental control settings, and all other settings you have changed. After a reset, you can customize your settings again.

# Parental Controls



Use Parental Controls to manage internet use by blocking access per device. You also can block specific sites per device. Once you turn on Parental Controls, click **Block Internet Access** next to a device in the *Connected Devices* table. Select *Never*, *Always* or *Specific Times*. If you choose *Specific Times*, you will have to select the days and times you want to block the internet on that device.

Click *Add* next to *Block Specific Sites* and Choose Block Sites and enter the URL of the sites you want to block from that device. Click **Apply**. Click *Add* again to block another site.

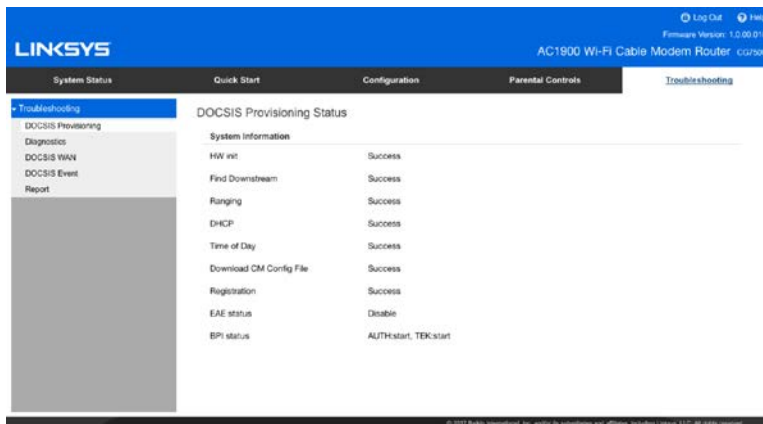
Use the *Manage Device Table* to change parental control settings. Click **Manage** to make changes and Delete to undo all parental controls on a device.

Click **Add a New Device** to assign parental controls to a new device on your Wi-Fi. Enter a device name and the device's MAC address, then choose when to block the internet to that device.

Click **Save** before leaving the page.

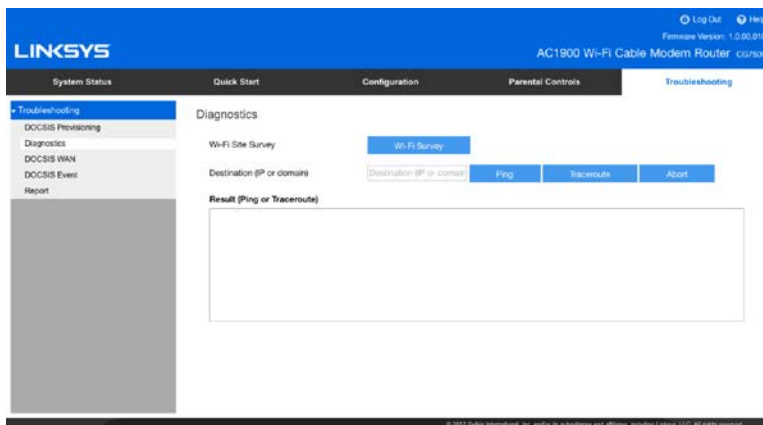
# Troubleshooting

## DOCSIS Provisioning



This screen provides details on the provisioning of your modem router.

## Diagnostics



Use diagnostics to aid in troubleshooting your modem router's connectivity.

### Ping

Check whether a destination IP/URL is available.

### Traceroute

Trace the routing path to the destination IP/URL.

### Abort

Stop ping test or traceroute test.



## DOCSIS WAN

LINKSYS AC1900 Wi-Fi Cable Modem Router c37500

System Status Quick Start Configuration Parental Controls Troubleshooting

DOCSIS WAN

DOCSIS Overview

Network Access Permitted

IP Address 192.168.55.33

IP Address (IPv6)

Subnet Mask 255.255.255.0

Default Gateway 192.168.55.1

DHCP Lease Time D: 01 H: 00 M: 00 S: 00

Downstream Overview

Port	Frequency (Hz)	Modulation	Signal Strength (dBmV)	Channel	SNR (dB)	Octets	Correcteds	Uncorrectables
1	54800000	256QAM	-15.100	1	35.084	3932514499	175	0
2	55500000	256QAM	-15.500	2	35.084	3932516908	188	0
3	56100000	256QAM	-14.900	3	35.084	3932517781	236	0
4	56700000	256QAM	-14.600	4	35.085	3932518102	225	0
5	57300000	256QAM	-14.800	5	34.926	3932519505	175	0

The DOCSIS WAN screen shows a DOCSIS overview, and downstream/upstream activity overview. Click **Reset FEC Counters** to start counting new errors (Correcteds/Uncorrectables).

## DOCSIS Event

LINKSYS AC1900 Wi-Fi Cable Modem Router c37500

System Status Quick Start Configuration Parental Controls Troubleshooting

DOCSIS Event

No.	Time	Type	Priority	Event
1	01/01/20 00:01:54	82000200	critical	No Ranging Response received - T3 time-out;CM-MAC=60:38:x0:1a:ba:x0:CM-TS-MAC=00:17:10:04:63:82:CM-QOS=1.1,CM-VER=3.0.
2	01/00/17 11:38:21	90000000	warning	MIMO Event MIMO: Stored MIMO=1 post cfg file MIMO=1,CM-MAC=60:38:x0:1a:ba:x0:CM-TS-MAC=00:17:10:04:63:82:CM-QOS=1.1,CM-VER=3.0.
3	01/00/17 11:38:22	69C20600	error	Improper Configuration File CVC Format
4	01/00/17 11:38:25	82000200	critical	No Ranging Response received - T3 time-out;CM-MAC=60:38:x0:1a:ba:x0:CM-TS-MAC=00:17:10:04:63:82:CM-QOS=1.1,CM-VER=3.0.

Remove Clear

The DOCSIS event log chronicles DOCSIS errors that generated log entries.

# Report

The screenshot shows the Linksys web interface for an AC1900 Wi-Fi Cable Modem Router. The top navigation bar includes links for System Status, Quick Start, Configuration, Parental Controls, and Troubleshooting. The left sidebar lists various troubleshooting options, with 'Report' selected. The main content area displays the following information:

Router Information	
Firmware Version	1.0.0.0.010
Serial Number	19710254600048
Current Router Time	Wed, 01 Feb 2017 13:56:59
Current Browser Time	Wed, 01 Feb 2017 21:56:55 GMT
Internet MAC Address	60:35:e0:1a:ba:e3

Internet Connection	
Connection Type	Automatic Configuration
Internet Address	192.168.66.40
Internet Address (IPv6)	
Subnet Mask	255.255.255.0
Default Gateway	192.168.66.1
DNS 1	192.168.2.10
DNS 2	
DNS 3	
MTU	1500

Local Network	
Local MAC Address	60:35:e0:1a:ba:e2
IPv4 Address	192.168.1.1
IPv4 Subnet Mask	255.255.255.0
IPv6 Link-Local Address	fe80::6235:e0ff:fe1a:bae2

DHCP Server	
Enabled	Yes

The report shows details about your router and its current network settings. This information can be very helpful if you have to call your ISP or Linksys Support for help with your Internet connection or router.

The following buttons are available for both the Devices and Report pages:

## Refresh

Redisplays the most current information.

## Print

Prints the information currently displayed.

# Specifications

## Linksys GG7500

Model Name	AC1900   24x8 Cable Modem Router
Model Number	CG7500
Switch Port Speed	10/100/1000 Mbps (Gigabit Ethernet)
Radio Frequency	2.4 GHz and 5 GHz
# of Antennas	6 internal
Ports	Cable, Power, USB 2.0, Ethernet (1-4)
Buttons	Reset
Lights	Ethernet, WPS, Wi-Fi, Internet (Send/Receive/Status), Power, Ethernet
UPnP	Supported
Security Features	WEP, WPA-Enterprise, WPA2-Personal
Security Key Bits	Up to 128-bit encryption
Storage File System Support	FAT, NTFS, and HFS+

## Environmental

Dimensions	30 mm x 185mm x 240 mm
Unit Weight	TBD
Power	12V, 3A
Certifications	FCC, UL, Wi-Fi (IEEE 802 .11ac/a/b/g/n), RoHS
Operating Temperature	0 to 40°C (32 to 104°F)
Storage Temperature	-20 to 60°C, (-4 to 140°F)
Operating Humidity	10% to 80% relative humidity, non-condensing
Storage Humidity	5% to 90% non-condensing

Specifications are subject to change without notice.

## NOTES

For regulatory, warranty, and safety information, see the CD that came with your modem router or go to [Linksys.com/support](http://Linksys.com/support).

Maximum performance derived from IEEE Standard 802 .11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Visit [linksys.com/support/](http://linksys.com/support/) for award-winning technical support.

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