



N300 WiFi Cable Modem Router

Model C3000v2

N600 WiFi Cable Modem Router

Model C3700v2

User Manual



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350 East Plumeria Drive
San Jose, CA 95134
USA

Support

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Conformity

For the current EU Declaration of Conformity, visit http://kb.netgear.com/app/answers/detail/a_id/11621.

Compliance

For regulatory compliance information, visit <http://www.netgear.com/about/regulatory>.

See the regulatory compliance document before connecting the power supply.

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Hardware Setup

1

This chapter covers the following topics:

- *Unpack Your Modem Router*
- *C3000v2 Front Panel*
- *C3000v2 Rear Panel*
- *C3700v2 Front Panel*
- *C3700v2 Rear Panel*
- *Position Your Modem Router*
- *Cable Your Modem Router*
- *Activate Your Internet Service*
- *Activate Your Internet Service With Comcast Xfinity*

For more information about the topics covered in this manual, visit the support website at support.netgear.com.

Unpack Your Modem Router

Your package includes either a C3000v2 or a C3700v2 modem router.

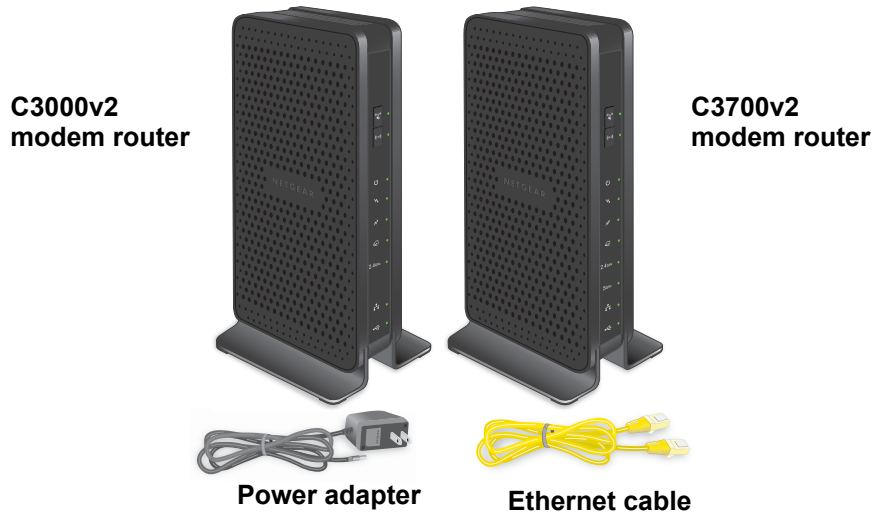


Figure 1. Package contents

C3000v2 Front Panel

The modem router status LEDs and buttons are on the front.











Figure 2. C3000v2 modem router front view

You can control the LED settings. For information about how to specify the LED settings, see [Control the LED Settings](#) on page 87.

You can use the LEDs to verify status and connections. The following table lists and describes each LED and button on the front panel of the modem router.

Table 1. C3700v2 LED and button descriptions

LED	Description
WPS button with LED 	This button lets you use WPS to join the WiFi network without typing the WiFi password. The WPS LED blinks during this process and then lights solid.
WiFi On/Off button with LED 	Pressing this button for two seconds turns the WiFi radio in the modem router on and off. If this LED is lit, the WiFi radio is on. If this LED is off, the WiFi radio is turned off and you cannot use WiFi to connect to the modem router.
Power 	<ul style="list-style-type: none"> Green. Power is supplied to the modem router. Red. Power is cut off due to a thermal error caused by heat. Move the unit to a well ventilated area and power cycle the unit. Off. No power is supplied to the modem router.
Downstream 	<ul style="list-style-type: none"> Solid green. One or more downstream channels are locked. Blinking green. The unit is scanning for a downstream channel. Off. No downstream channel is locked.
Upstream 	<ul style="list-style-type: none"> Solid green. One or more upstream channels are locked. Blinking green. The unit is scanning for an upstream channel. Off. No upstream channel is locked.
Internet 	<ul style="list-style-type: none"> Solid green. The modem router is online. Blinking green. The modem router is synchronizing with the cable provider's cable modem termination system (CMTS). Off. The modem router is offline.
2.4 GHz radio 2.4GHz	<ul style="list-style-type: none"> Green. The 2.4 GHz radio is on. Blinking green. There is WiFi activity on the 2.4 GHz WiFi band. Off. The 2.4 GHz radio is off.
Ethernet 	<ul style="list-style-type: none"> Green. A device is connected to an Ethernet port and powered on. Blinking green. The Ethernet port is sending or receiving traffic. Off. No device is connected to an Ethernet port.
USB 	<ul style="list-style-type: none"> Green. A USB device is connected to the port on the back panel. Off. No USB device is connected to the port on the back panel.

C3000v2 Rear Panel

The rear panel connections and buttons shown the following figure.

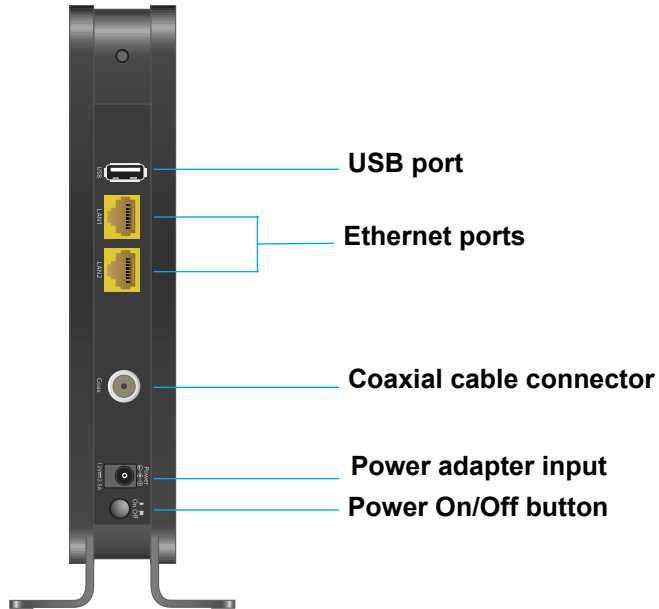


Figure 3. C3000v2 modem router rear panel

C3700v2 Front Panel

The modem router status LEDs and buttons are on the front.



Figure 4. C3700v2 modem router front view

You can control the LED settings. For information about how to specify the LED settings, see [Control the LED Settings](#) on page 87.

You can use the LEDs to verify status and connections. The following table lists and describes each LED and button on the front panel of the modem router.

Table 2. C3700v2 LED and button descriptions









LED	Description
WPS button with LED 	This button lets you use WPS to join the WiFi network without typing the WiFi password. The WPS LED blinks during this process and then lights solid.
WiFi On/Off button with LED 	Pressing this button for two seconds turns the WiFi radios in the modem router on and off. If this LED is lit, the WiFi radios are on. If this LED is off, the WiFi radios are turned off and you cannot use WiFi to connect to the modem router.
Power 	<ul style="list-style-type: none"> Green. Power is supplied to the modem router. Red. Power is cut off due to a thermal error caused by heat. Move the unit to a well ventilated area and power cycle the unit. Off. No power is supplied to the modem router.
Downstream 	<ul style="list-style-type: none"> Solid green. One or more downstream channels are locked. Blinking green. The unit is scanning for a downstream channel. Off. No downstream channel is locked.
Upstream 	<ul style="list-style-type: none"> Solid green. One or more upstream channels are locked. Blinking green. The unit is scanning for an upstream channel. Off. No upstream channel is locked.
Internet 	<ul style="list-style-type: none"> Solid green. The modem router is online. Blinking green. The modem router is synchronizing with the cable provider's cable modem termination system (CMTS). Off. The modem router is offline.
2.4 GHz radio 2.4GHz	<ul style="list-style-type: none"> Green. The 2.4 GHz radio is on. Blinking green. There is activity on the 2.4 GHz WiFi band. Off. The 2.4 GHz radio is off.
5 GHz radio 5GHz	<ul style="list-style-type: none"> Green. The 5 GHz radio is on. Blinking green. There is activity on the 5 GHz WiFi band. Off. The 5 GHz radio is off.

Table 2. C3700v2 LED and button descriptions (continued)

LED	Description
Ethernet 	<ul style="list-style-type: none"> Green. A device is connected to an Ethernet port and powered on. Blinking green. The Ethernet port is sending or receiving traffic. Off. No device is connected to an Ethernet port.
USB 	<ul style="list-style-type: none"> Green. A USB device is connected to the port on the back panel. Off. No USB device is connected to the port on the back panel.

C3700v2 Rear Panel

The rear panel connections and buttons shown the following figure.

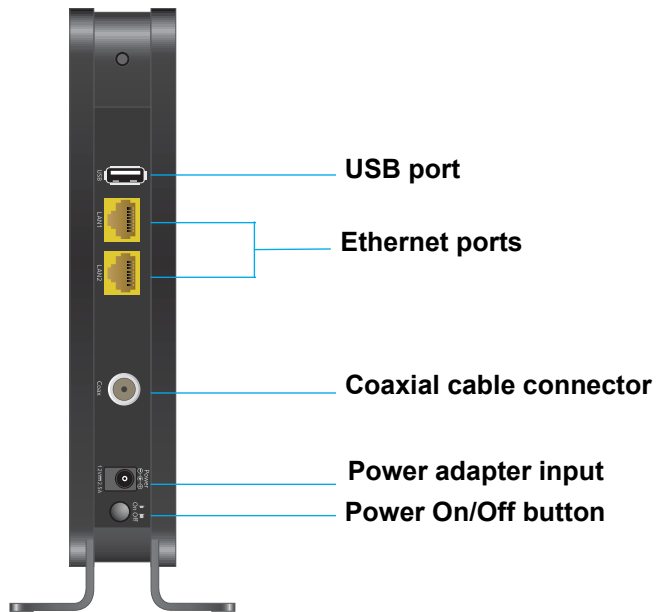


Figure 5. C3700v2 modem router rear panel

Position Your Modem Router

The modem router lets you access your network anywhere within the operating range of your WiFi network. However, the operating distance or range of your WiFi connection can vary significantly depending on the physical placement of your modem router. For example, the thickness and number of walls the WiFi signal passes through can limit the range.

Additionally, other WiFi access points in and around your home might affect your modem router's signal. WiFi access points are modem routers, repeaters, WiFi range extenders, and any other device that emits a WiFi signal for network access.

Position your modem router according to the following guidelines:

- Place your modem router near the center of the area where your computers and other devices operate, and within line of sight to your WiFi devices.
- Make sure that the modem router is within reach of an AC power outlet and near Ethernet cables for wired computers.
- Place the modem router in an elevated location, minimizing the number walls and ceilings between the modem router and your other devices.
- Place the modem router away from electrical devices such as these:
 - Ceiling fans
 - Home security systems
 - Microwaves
 - Computers
 - Base of a cordless phone
 - 2.4 GHz cordless phone
- Place the modem router away from large metal surfaces, large glass surfaces, and insulated walls such as these:
 - Solid metal door
 - Aluminum studs
 - Fish tanks
 - Mirrors
 - Brick
 - Concrete

Cable Your Modem Router

The most common way to cable your modem router is the simplest, without any other routers or gateways on the same network. You can also cable the modem router to another router or gateway and log in to the modem router to specify the Router Mode setting.

Cable the Modem Router With a Simple Network

The modem router comes configured to work as both a modem and a router. You can share your Internet connection without connecting the modem router to a router or gateway.

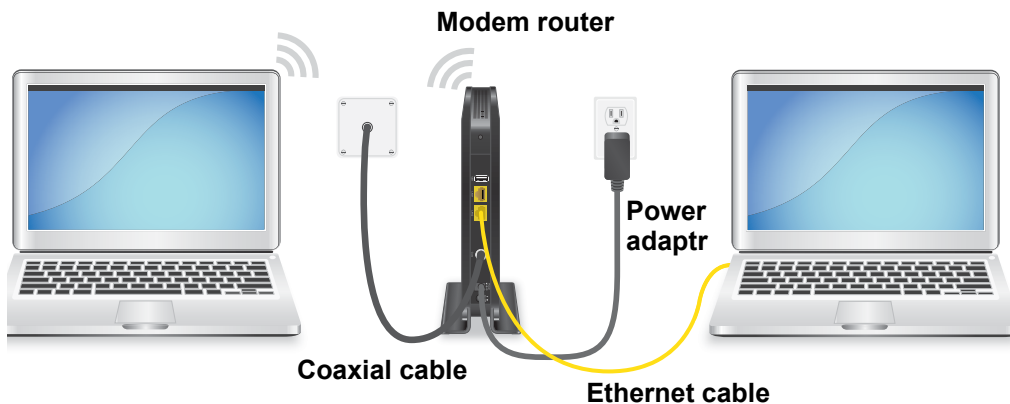


Figure 6. Simple modem router network

➤ To cable your modem router:

1. Connect the antennas to the threaded antenna posts.
2. Turn off existing modems and routers.

If you are replacing a modem that is currently connected in your home, unplug the modem and plug the new modem router into the same outlet.

3. Connect a coaxial cable.

Use the coaxial cable that is provided by your Internet service provider to connect the cable port on the modem router to a cable wall outlet.

Make sure that the cable is tightly connected.

4. Connect the power adapter to the modem router and plug the power adapter into an electrical outlet.

Make sure that the **Power On/Off** button on the rear panel of the modem router is in the **On** position.

The startup procedure takes about one minute. When the startup procedure is complete, the Power LED lights green.

You can log in to the modem router to view or change its settings.

Cable Your Modem Router to a Router or Gateway

If you want to cable the modem router to a router or gateway, you must log in to the modem router and change its Router Mode setting. Changing this setting prevents certain network conflicts that can occur when two devices on the same network perform routing functions such as network address translation (NAT) and DHCP (assigning IP addresses to devices on the network).

➤ To cable your modem router to a gateway or router:

1. Connect the antennas to the threaded antenna posts.
2. Turn off existing modems and routers.

If you are replacing a modem that is currently connected in your home, unplug the modem and plug the new modem router into the same outlet.

3. Connect a coaxial cable.

Use the coaxial cable that is provided by your Internet service provider to connect the cable port on the modem router to a cable wall outlet.

Make sure that the cable is tightly connected.

4. Connect the power adapter to the modem router and plug the power adapter into an electrical outlet.

Make sure that the **Power On/Off** button the rear panel of the modem router is in the **On** position.

The startup procedure takes about one minute. When the startup procedure is complete, the Power LED lights green.

5. On your WiFi-enabled computer or mobile device, find and select the WiFi network.

The WiFi network name is on the modem router label.

6. Join the WiFi network and enter the WiFi password.

The password is on the modem router label.

Your WiFi device connects to the WiFi network.

7. Launch a web browser.

8. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

9. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

10. When prompted, change the password and enter security questions and answers.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The first time you log in to the modem router, you are prompted to change the admin password and set up security questions. You must enter these settings before you can access the Internet.

11. Enter a new password.
12. Select security questions and enter the answers.
13. Click the **Next** button.

A Congratulations page displays your settings.

14. Click the **Next** button.

The modem router connects to the Internet. The BASIC Home page displays the status of the Internet connection.

15. Select **ADVANCED > Administration > Router Mode**.

The Router Mode page displays.

16. Select the **No** radio button.

With this setting, the modem router works as a bridge and obtains IP addresses from the Internet service provider.

17. Click the **Apply** button.
Your settings are saved.
18. Follow the instructions that came with your router to connect it to the modem router.

Activate Your Internet Service

➤ **To activate your Internet service:**

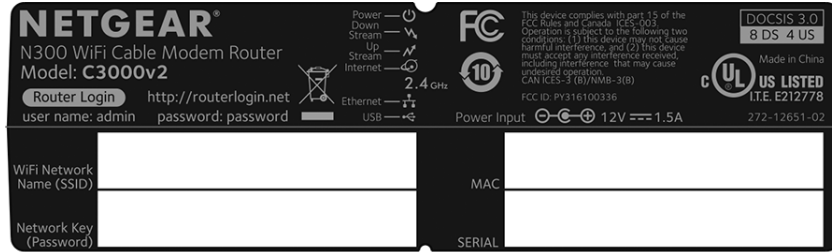
1. Visit your cable Internet provider's website and follow the onscreen instructions to activate your Internet service.

Cable Internet Provider	Contact Information
Bright House Networks	support.brighthouse.com 1-866-898-9101
Cablevision	cablevision.com https://install.optimum.com/JointInstall/ Telephone number depends on your region. Note: When you attempt to contact Cablevision online, you are directed to the Optimum web page. Optimum is a brand name of Cablevision.
Charter	https://install.charter.com 1-888-438-2427
Comcast XFINITY	comcast.com/activate XFINITY.com/internetsetup XFINITY.com/internetsupport 1-800-XFINITY (1-800-934-6489) For more information, see Activate Your Internet Service With Comcast Xfinity on page 17.
Cox	https://activation.cox.net/selfactivation/start.cox 1-888-556-1193
Mediacom	https://maestro.mediacomcc.com/walledgarden/page/login.jsp 1-844-2SIMPLE (1-844-274-6753)
Time Warner Cable	https://www.timewarnercable.com/en/support/internet/step-by-step/modem-activation.html 1-800-892-2253

Note: Your cable Internet provider's contact information might change. You can also find the contact information in your monthly Internet service billing statement.

2. If you are unable to activate your Internet service using the instructions on your cable Internet provider's website, call your cable Internet provider and do the following:
 - a. When asked, provide your account information and provide the modem router's model number, which is C3000v2 and C3700v2, serial number, and MAC address.

The serial number and MAC address are on the modem router label.



- b. Wait for your cable Internet provider to confirm that your modem router is active.
- c. If you do not get an Internet connection with the modem router, ask your cable Internet provider to look for your modem router online, and do one of the following depending what your cable Internet provider tells you about your modem router:
 - If the modem router is not visible, your cable Internet provider can give you instructions to verify why the modem router does not connect with your high-speed Internet service.
 - If the modem router is visible to your cable Internet provider, reboot the modem router. Check your online status again.

Activate Your Internet Service With Comcast Xfinity

Activate your Internet service by using Comcast XFINITY's self-activation process. If you are unable to self-activate your modem router, call Comcast XFINITY customer service. After you complete the setup, perform a speed test.

Before you start the self-activation process, make sure that your account number, account phone number, and login information (your email address or user name and password) are nearby.

Use the Self-Activation Process to Set Up Your Internet Connection

➤ To set up your Internet connection with Comcast XFINITY's self-activation process:

1. Close all web browsers.
2. Launch a web browser.

You are redirected to the XFINITY self-activation page. If you are not redirected to the XFINITY self-activation page, visit comcast.com/activate.

3. Provide your XFINITY credentials and complete the self-activation process.

This process might take up to 15 minutes, during which the modem router reboots twice.

Call Comcast XFINITY to Set Up Your Internet Connection

If you are unable to activate your modem router using the XFINITY self-activation process, call Comcast XFINITY customer service.

Before you call Comcast Xfinity, make sure that your account number, account phone number, email address, and password are nearby. The cable modem's model number is C3000v2 or C3700v2. The serial number and MAC address are on the modem router label.

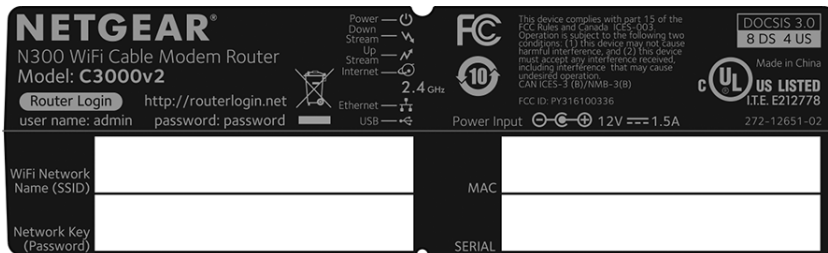


Figure 7. Modem router label

➤ To set up your Internet connection by calling Comcast XFINITY:

1. Call Comcast XFINITY customer service at 1-800-XFINITY (1-800-934-6489).
2. When asked, provide your account information and provide the modem router's model number and MAC address.
3. Wait for Comcast XFINITY to confirm that your modem router is active.
4. If you do not get an Internet connection with the modem router, ask Comcast XFINITY to look for your modem router online, and do one of the following depending on what Comcast XFINITY tells you about your modem router:
 - If the modem router is not visible, Comcast XFINITY can give you instructions to verify why the modem router does not connect with your high-speed Internet service.
 - If the modem router is visible to Comcast XFINITY, reboot the modem router. Check your online status again.

Perform a Speed Test

To determine the accurate Internet speed, visit the speed test website of your cable Internet provider and perform a speed test.

If your actual speed is lower than your subscribed speed, contact your cable Internet provider.

Connect to the Network and Access the Modem Router

This chapter contains the following sections:

- *Connect to the Network*
- *Types of Logins*
- *Log In to the Modem Router*

Connect to the Network

You can connect to the modem router's network through a wired or WiFi connection. If you set up your computer to use a static IP address, change the settings so that it uses Dynamic Host Configuration Protocol (DHCP).

Wired Connection

You can connect your computer to the modem router using an Ethernet cable and join the modem router's local area network (LAN).

➤ **To connect your computer to the modem router with an Ethernet cable:**

1. Make sure that the modem router is receiving power (its Power LED is lit).
If the Power LED does not light, make sure that the **Power On/Off** button the rear panel of the modem router is in the **On** position.
2. Connect an Ethernet cable to an Ethernet port on your computer.
3. Connect the other end of the Ethernet cable to one of the numbered Ethernet ports.
Your computer connects to the local area network (LAN). A message might display on your computer screen to notify you that an Ethernet cable is connected.

WiFi Connection

You can connect to the modem router's WiFi network with Wi-Fi Protected Setup (WPS) or you can find and select the WiFi network.

➤ **To use WPS to connect to the WiFi network:**

1. Make sure that the modem router is receiving power (its Power LED is lit).
If the Power LED does not light, make sure that the **Power On/Off** button the rear panel of the modem router is in the **On** position.
2. Press the **WPS** button on the modem router.
3. Within two minutes, on your WiFi-enabled computer or mobile device, press its **WPS** button or follow its instructions for WPS connections.
Your WiFi-enabled computer or mobile device connects to the WiFi network.

➤ **To find and select the WiFi network:**

1. Make sure that the modem router is receiving power (its Power LED is lit).
If the Power LED does not light, make sure that the **Power On/Off** button the rear panel of the modem router is in the **On** position.
2. On your WiFi-enabled computer or mobile device, find and select the WiFi network.
The WiFi network name is on the modem router's label.

3. Join the WiFi network and enter the WiFi password.

The password is on the modem router label.

Your WiFi device connects to the WiFi network.

Label

The label on the modem router shows the login information, MAC address, and serial number.

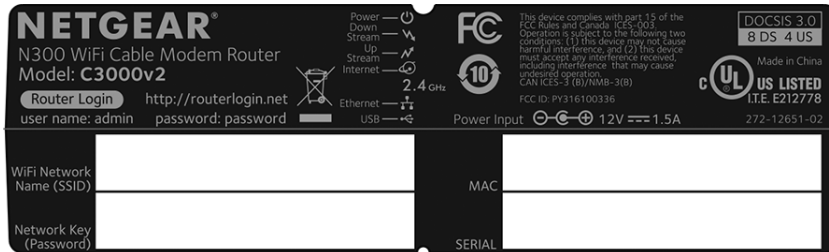


Figure 8. Model C3000v2 modem router label

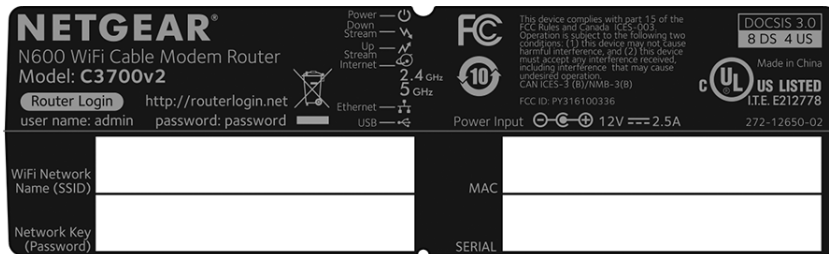


Figure 9. Model C3700v2 modem router label

Types of Logins

Separate types of logins serve different purposes. It is important that you understand the difference so that you know which login to use when.

Types of logins:

- **ISP login.** The login that your ISP gave you logs you in to your Internet service. Your service provider gave you this login information in a letter or some other way. If you cannot find this login information, contact your service provider.
- **WiFi network key or password.** Your modem router is preset with a unique WiFi network name (SSID) and password for WiFi access. This information is on the modem router label.
- **Modem router login.** This logs you in to the modem router web pages from a web browser as admin.

Log In to the Modem Router

When you connect to the network (either with WiFi or with an Ethernet cable), you can use a web browser to access the modem router to view or change its settings. The first time you access the modem router, the modem router automatically checks to see if it can connect to your Internet service.

➤ **To log in to the modem router:**

1. Launch a web browser from a computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The first time you log in to the modem router, you are prompted to change the admin password and set up security questions. You must enter these settings before you can access the Internet.

Admin Account Settings

The admin password is used to log in to your router's web interface. Secure your Network by changing the admin password.

User Name: admin

New Password:

Confirm New Password:

Security Question #1*: What's the name of the first NETGEAR product you purchased?

Answer*: C6220

Security Question #2*: What is your best friend's first name?

Answer*: John

* = required information

Next

4. Enter a new password.
5. Select security questions and enter the answers.
6. Click the **Next** button.

A Congratulations page displays your settings.

7. Click the **Next** button.

The modem router connects to the Internet. The BASIC Home page displays the status of the Internet connection.

Specify Initial Settings

3

This chapter contains the following sections:

- *Specify the Cable Connection Starting Frequency*
- *View Modem Router Initialization*
- *Specify the Internet Connection Settings*
- *Specify an IPv6 Internet Connection*

Specify the Cable Connection Starting Frequency

The starting frequency is automatically generated. For most Internet connections, you do not need to specify this information. If you must enter a starting frequency, contact your Internet service provider.

➤ **To change the starting frequency:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **Cable Connection**.

Cable Connection

Frequency start Value
This field below allows you to modify the frequency the cable modem start with its scan during initialization and registration. Enter the new start frequency and restart the cable modem for it to take effect.

Starting Frequency: 705000000

Startup Procedure

Procedure	Status	Comment
Acquire Downstream Channel	705000000 Hz	Locked
Connectivity State	OK	Operational
Boot State	OK	Operational
Configuration File	OK	
Security	Disabled	Disabled
IP Provisioning Mode	Honor MCD	IPv4 only

Downstream Bonded Channels

Channel	Lock	Status	Modulation	Channel ID	Frequency	Power	SNR	Correctables	Uncorrectables
1	Locked		QAM256	34	705000000 Hz	-0.5 dBmV	47.3 dB	151	0
2	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
3	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
4	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
5	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
6	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
7	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0
8	Not Locked	Unknown	0	0 Hz	0 Hz	0.0 dBmV	0.0 dB	0	0

5. Enter a number in the **Starting Frequency** field.
6. Click the **Apply** button.

Your settings are saved.

View Modem Router Initialization

You can track the initialization procedure of the modem router and get details about the downstream and upstream cable channel. The time is displayed after the modem router is initialized.

The modem router automatically goes through the following steps in the provisioning process:

1. Scans and locks the downstream frequency and then ranges the upstream channels.
2. Obtains a WAN address for the modem router.
3. Connects to the Internet.

➤ **To view the status of the modem router initialization:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **Cable Connection**.

Cable Connection

Apply Cancel

Frequency start Value
This field below allows you to modify the frequency the cable modem start with its scan during initialization and registration. Enter the new start frequency and restart the cable modem for it to take effect.

Starting Frequency: 705000000

Startup Procedure

Procedure	Status	Comment
Acquire Downstream Channel	705000000 Hz	Locked
Connectivity State	OK	Operational
Boot State	OK	Operational
Configuration File	OK	
Security	Disabled	Disabled
IP Provisioning Mode	Honor MDO	IPv4 only

Downstream Bonded Channels

Channel	Lock Status	Modulation	Channel ID	Frequency	Power	SNR	Correctables	Uncorrectables
1	Locked	QAM256	34	705000000 Hz	-0.5 dBmV	47.3 dB	151	0
2	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
3	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
4	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
5	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
6	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
7	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0
8	Not Locked	Unknown	0	0 Hz	0.0 dBmV	0.0 dB	0	0

Help Center Show/Hide Help Center

The Startup Procedure section displays the initialization progress.

The Downstream Bonded Channels section displays the status of each channel.

Specify the Internet Connection Settings

You can view or change the modem router's Internet connection settings.

➤ **To specify the Internet connection settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > Internet Setup**.

5. If your Internet connection requires an account name or host name, type it in the **Account Name (If Required)** field.
6. If your Internet connection requires a domain name, type it in the **Domain Name (If Required)** field.

For the other sections on this page, the default settings usually work, but you can change them.

7. Select an Internet IP Address radio button:
 - **Get Dynamically from ISP.** Your ISP uses DHCP to assign your IP address. Your ISP automatically assigns these addresses.
 - **Use Static IP Address.** Enter the IP address, IP subnet mask, and the gateway IP address that your ISP assigned. The gateway is the ISP modem router to which your modem router connects.
8. Select a Domain Name Server (DNS) Address radio button:

- **Get Automatically from ISP.** Your ISP uses DHCP to assign your DNS servers. Your ISP automatically assigns this address.
- **Use These DNS Servers.** If you know that your ISP requires specific servers, select this option. Enter the IP address of your ISP's primary DNS server. If a secondary DNS server address is available, enter it also.

9. Click the **Apply** button.

Your settings are saved.

Note: If you get address not found errors when you go to a website, it is likely that your DNS servers are not set up correctly. Contact your ISP to get the DNS server addresses.

Specify an IPv6 Internet Connection

➤ **To specify an IPv6 Internet connection:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > IPV6**.

If your Internet provider supports IPv6, the System Delegated Prefix field displays IPv6 information.

5. Select an IP Address Assignment radio button:

- **Use DHCP Server.** This method passes more information to LAN devices, but some IPv6 systems might not support the DHCv6 client function.
- **Auto Config.** This is the default setting.

This setting specifies how the modem router assigns IPv6 addresses to the home network (the LAN).

6. Click the **Apply** button.

Your settings are saved.

Control Access to the Internet

4

This chapter explains how to prevent objectionable content from reaching the computers and other devices that are connected to your network.

This chapter includes the following sections:

- *Set Up Parental Controls*
- *Use Keywords to Block Internet Sites*
- *Block Services and Applications From the Internet*
- *Schedule When to Block Internet Sites and Services*
- *Avoid Blocking on a Trusted Computer*
- *Set Up Security Event Email Notifications*

Set Up Parental Controls

The first time that you select **Parental Controls** from the BASIC Home page, your browser goes to the *Parental Controls* website. You can learn more about parental controls or download the application.

After you set up and enable parental controls, you can change the web filtering level for each device on the network through the network map page on the genie app.

➤ **To set up parental controls:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **Parental Controls**.

The Live Parental Controls web page displays.

5. Click the button for the app or version that you want to download and use.
6. Follow the onscreen instructions to download and install the genie app.
7. Open the genie app and select **Parental Controls**.

After installation, Live Parental Controls automatically starts.

8. Click the **Next** button, read the note, and click the **Next** button again to proceed.

Because Live Parental Controls uses free OpenDNS accounts, you are prompted to log in or create a free account.

Setting up Live Parental Controls

Welcome, this setup wizard will quickly configure NETGEAR Live Parental Controls Powered by OpenDNS on your NETGEAR router.

In order to use Live Parental Controls, you need a free OpenDNS account. Do you already have one?

☒ Yes, use my existing OpenDNS account.

☐ No, I need to create a free OpenDNS account.

9. Select a radio button as follows:
 - If you already own an OpenDNS account, leave the **Yes** radio button selected.
 - If you do not own an OpenDNS account, select the **No** radio button.

If you are creating an account, the Create a free OpenDNS account page displays.
Do the following:

- a. Complete the fields.
- b. Click the **Next** button.

After you log on or create your account, the filtering level page displays.

10. Select a radio button for a filtering level and click the **Next** button.

The setup is complete.

11. Click the **Take me to the status page** button.

The Status page displays. Parental controls are now set up for the modem router.

To enable parental controls, click the **Enable Live Parental Controls** button.

Use Keywords to Block Internet Sites

You can use keywords to block certain Internet sites from your network. You can use blocking all the time or based on a schedule.

Add a Keyword to Block

➤ **To block Internet sites:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Security > Block Sites**.

5. Select one of the keyword blocking options:

- **Per Schedule.** Turn on keyword blocking according to a schedule that you set. (See *Schedule When to Block Internet Sites and Services* on page 35.)
- **Always.** Turn on keyword blocking all the time, independent of the Schedule screen.

6. In the **Type keyword or domain name here** field, enter a keyword or domain that you want to block.

For example:

- Specify XXX to block <http://www.badstuff.com/xxx.html>.
- Specify .com if you want to allow only sites with domain suffixes such as .edu or .gov.
- Enter a period (.) to block all Internet browsing access.

7. Click the **Add Keyword** button.

The keyword is added to the keyword list. The keyword list supports up to 32 entries.

8. Click the **Apply** button.

Keyword blocking takes effect.

Delete a Keyword

➤ **To delete keywords from the list:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **<http://routerlogin.net>** or **<http://192.168.0.1>**.
A login window opens.
3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Security > Block Sites**.

The Block Sites page displays.

5. Do one of the following:

- To delete a single word, select it and click the **Delete Keyword** button.

The keyword is removed from the list.

- To delete all keywords on the list, click the **Clear List** button.

All keywords are removed from the list.

6. Click the **Apply** button.

Your settings are saved.

Block Services and Applications From the Internet

You can block Internet services and applications on your network based on the type of service. You can block the services and applications all the time or based on a schedule.

➤ **To block services:**

- Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

- Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

- Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

- Select **ADVANCED > Security > Block Services**.

Block Services

Apply Cancel

Services Blocking

☒ Never

☐ Per Schedule ▼

☐ Always

Service Table

#	Enable	Service Type	Port	IP
---	--------	--------------	------	----

Add Edit Delete

5. Specify when to block the services:

- To block the services all the time, select the **Always** radio button.
- To block the services based on a schedule, select the **Per Schedule** radio button.

For information about how to specify the schedule, see [Schedule When to Block Internet Sites and Services](#) on page 35.

6. Click the **Add** button.

7. To add a service that is in the **Service Type** list, select the application or service.

The settings for this service automatically display in the fields.

8. To add a service or application that is not the list, select **User Defined**.

- a. If you know that the service or application uses either TCP or UDP, select the appropriate protocol.

If you are not sure, select **TCP/UDP** (both).

- b. Enter the starting port and ending port numbers:

If the service or application uses a single port number, enter that number in both fields.

To find out which port numbers the service or application uses, you can contact the publisher of the application, ask user groups or newsgroups, or search on the Internet.

9. Select a filtering option:

- **Only This IP Address.** Block services or applications for a single computer.
- **IP Address Range.** Block services or applications for a range of computers with consecutive IP addresses on your network.
- **All IP Addresses.** Block services or applications for all computers on your network.

10. Click the **Add** button.

Your settings are saved.

Schedule When to Block Internet Sites and Services

When you schedule blocking, the same schedule is used to block sites and to block services. For information about how to specify what you want the modem router to block, see [Use Keywords to Block Internet Sites](#) on page 31 and [Block Services and Applications From the Internet](#) on page 33.

➤ To schedule blocking:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Security > Schedule**.
The Schedule page displays.
5. Specify when to block keywords and services:
 - **Days to Block**. Select the check box for each day that you want to block the keywords and services or select the **Every Day** check box, which automatically selects the check boxes for all days.
 - **Time of Day to Block**. Select a start and end time in 24-hour format, or select **All Day** for 24-hour blocking.
6. Select your time zone from the menu.
7. If you live in an area that observes daylight saving time, select the **Automatically adjust for daylight savings time** check box.
8. Click the **Apply** button.
Your settings are saved.

Avoid Blocking on a Trusted Computer

You can exempt one trusted computer from blocking. The computer that you exempt must use a fixed IP address. You can use the reserved IP address feature to specify the IP address. See [Manage LAN IP Addresses](#) on page 57.

➤ To specify a trusted computer:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

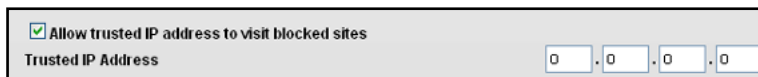
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Security > Block Sites**.

The Block Sites page displays.

5. Scroll down and select the **Allow trusted IP address to visit blocked sites** check box.



The screenshot shows a configuration section with a checked checkbox labeled "Allow trusted IP address to visit blocked sites". Below it is a label "Trusted IP Address" followed by four input boxes separated by dots, each containing the number "0".

6. In the **Trusted IP Address** field, enter the IP address of the trusted computer.

7. Click the **Apply** button.

Your settings are saved.

Set Up Security Event Email Notifications

The modem router can email you its logs. The log records modem router activity and security events such as attempts to access blocked sites or services. For information about logs, see [View and Manage Logs of Modem Router Activity](#) on page 76.

➤ To set up email notifications:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Security > E-mail**.

5. Select the **Turn E-mail Notification On** check box.
6. In the **Your Outgoing Mail Server** field, enter the name of your ISP outgoing (SMTP) mail server (such as mail.myISP.com).

You might be able to find this information in the configuration window of your email program. If you leave this field blank, log and alert messages are not sent.

7. Enter the email address to which logs and alerts are sent in the **Send to This E-mail Address** field.

This email address is also used for the From address. If this field is blank, log and alert messages are not sent.

8. If your outgoing email server requires authentication, select the **My Mail Server requires authentication** check box, and do the following:
- In the **User Name** field, type the user name for the outgoing email server.
 - In the **Password** field, type the password for the outgoing email server.
9. To send alerts when someone attempts to visit a blocked site, select the **Send Alerts Immediately** check box.
10. To send logs based on a schedule, specify these settings:
- From **Send logs according to this schedule** menu, select the schedule type.
 - From the **Day** menu, select the day.
 - From the **Time** menu, select the time, and select the **am** or **pm** radio button.
11. Click the **Apply** button.

Your settings are saved.

Logs are sent automatically. If the log fills before the specified time, it is sent. After the log is sent, it is cleared from the modem router memory. If the modem router cannot email the log and the log buffer fills, the modem router overwrites the log.

Share a USB Storage Device Attached to the Modem Router

5

This chapter describes how to access and manage USB storage devices attached to your modem router. You can share USB storage devices connected to the router. (If your storage device uses special drivers, it is not compatible.)

Note: The USB port on the modem router can be used only to connect USB storage devices like flash drives or hard drives, or a printer. Do not connect computers, USB modems, CD drives, or DVD drives to the modem router USB port.

This chapter contains the following sections:

- *USB Device Requirements*
- *Connect a USB Storage Device to the Modem Router*
- *Access a USB Drive Connected to the Modem Router From a Windows Computer*
- *Map a USB Device to a Windows Network Drive*
- *Access a USB Storage Device That Is Connected to the Modem Router From a Mac*
- *Control Access to the USB Drive*
- *Use FTP Within the Network*
- *View or Change Network Folders on a USB Drive*
- *Add a Network Folder on a USB Storage Device*
- *Edit a Network Folder on a USB Storage Device*
- *Approve USB Storage Devices*
- *Safely Remove a USB Storage Device*

For more information about ReadySHARE features, visit netgear.com/readysware.

USB Device Requirements

The modem router works with most USB-compliant external flash and hard drives. For the most up-to-date list of USB drives that the modem router supports, visit kbserver.netgear.com/readystatechange.

Some USB external hard drives and flash drives require you to load the drivers onto the computer before the computer can access the USB device. Such USB devices do not work with the modem router.

The modem router supports the following file system types for full read/write access:

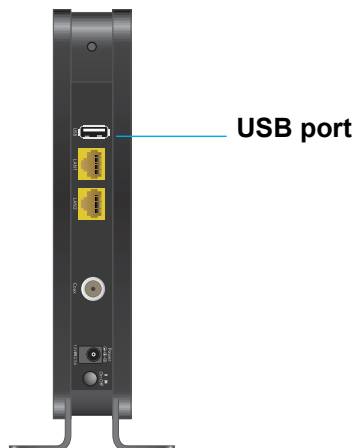
- FAT16
- FAT32
- NTFS
- NTFS with compression format enabled
- Ext2
- Ext3
- Ext4
- XFS
- HFS
- HFS+

Connect a USB Storage Device to the Modem Router

ReadySHARE lets you access and share USB storage devices that are connected to the appropriate modem router port. (If your USB storage device uses special drivers, it is not compatible.)

➤ **To connect a USB device:**

1. Insert your USB storage drive into the USB port on the rear panel of the modem router.



2. If your USB storage device uses a power supply, connect it.

You must use the power supply when you connect the USB storage device to the router.

When you connect the USB drive to the modem router USB port, it might take up to two minutes before it is ready for sharing. By default, the USB drive is available to all computers on your local area network (LAN).

Access a USB Drive Connected to the Modem Router From a Windows Computer

➤ To access a USB storage device from a Windows computer:

1. Connect a USB storage device to a USB port on your router.
2. If your USB storage device uses a power supply, connect it.

You must use the power supply when you connect the USB storage device to the modem router.

When you connect the USB storage device to the modem router's port, it might take up to two minutes before it is ready for sharing. By default, the USB storage device is available to all computers on your local area network (LAN).

3. Select **Start > Run**.
4. Enter **\\readyshare** in the dialog box.
5. Click the **OK** button.

A window automatically opens and displays the files and folders on the USB storage device.

Map a USB Device to a Windows Network Drive

➤ To map a USB device to a Windows network drive:

1. Connect a USB storage device to a USB port on the router.
2. If your USB storage device uses a power supply, connect it.

You must use the power supply when you connect the USB storage device to the modem router.

When you connect the USB storage device to the router's port, it might take up to two minutes before it is ready for sharing. By default, the device is available to all computers on your local area network (LAN).

3. Select **Start > Run**.
4. Enter **\\readyshare** in the dialog box.
5. Click the **OK** button.
6. Right-click the USB device and select **Map network drive**.

7. Select the drive letter to map to the new network folder.
8. Click the **Finish** button.

The USB storage device is mapped to the drive letter that you specified.

9. To connect to the USB storage device as a different user, select the **Connect using different credentials** check box, click the **Finish** button, and do the following:
 - a. Type the user name and password.
 - b. Click the **OK** button.

The USB drive is mapped to the drive letter that you specified.

Access a USB Storage Device That Is Connected to the Modem Router From a Mac

➤ To access the device from a Mac:

1. Connect a USB storage device to a USB port on your router.
2. If your USB storage device uses a power supply, connect it.

You must use the power supply when you connect the USB storage device to the modem router.

When you connect the USB storage device to the router's port, it might take up to two minutes before it is ready for sharing. By default, the USB storage device is available to all computers on your local area network (LAN).

3. On a Mac that is connected to the network, select **Go > Connect to Server**.
4. In the **Server Address** field, enter **smb://readyshare**.
5. When prompted, select the **Guest** radio button.

If you set up access control on the router and you allowed your Mac to access the network, select the **Registered User** radio button and enter admin for the name and password for the password.

6. Click the **Connect** button.

A window automatically opens and displays the files and folders on the USB storage device.

Control Access to the USB Drive

You can specify the device name, workgroups, and network folders for your USB device.

➤ To specify the USB access settings:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > USB Storage > Advanced Settings**.

USB Storage (Advanced Settings)

Apply Refresh

Network/Device Name : readyshare

Workgroup : Workgroup

Enable	Access Method	Link	Port
<input checked="" type="checkbox"/>	Network Connection	\\readyshare	-
<input checked="" type="checkbox"/>	HTTP	http://readyshare.routerlogin.net/shares	80
<input type="checkbox"/>	HTTPS (via Internet)	https://0.0.0.0:443/shares	443
<input checked="" type="checkbox"/>	FTP	ftp://readyshare.routerlogin.net/shares	21
<input type="checkbox"/>	FTP (via Internet)	ftp://0.0.0.0:21/shares	21

Available Network Folders

	Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
<input type="radio"/>	\\readyshare\USB_Storage	All - no password	All - no password	U:\	HP v100w	1.87 G	914

Help Center Show/Hide Help Center

5. Specify access to the USB storage device:

- **Network Device Name.** This is the name used to access the USB device connected to the modem router. The default is readyshare.
- **Workgroup.** If you are using a Windows workgroup rather than a domain, the workgroup name is displayed here. The name works only in an operating system that supports NetBIOS, such as Microsoft Windows.
- **Access Method.** Select the check boxes for the access methods that you want:
 - **Network Neighborhood/MacShare.** Enabled by default.
 - **HTTP.** Enabled by default. You can type **http://readyshare.routerlogin.net/shares** to access the USB drive.
 - **HTTP (via Internet).** Disabled by default. If you enable this feature, remote users can type **http://<public IP address/shares>** (for example, http://1.1.10.102/shares) or a URL domain name to access the USB drive over the Internet. This feature supports file uploading only.
 - **FTP.** Disabled by default.
 - **FTP (via Internet).** Disabled by default. If you select this check box, remote users can access the USB drive through FTP over the Internet. This feature supports both downloading and uploading of files.

6. If you changed the settings, click the **Apply** button.

Your settings are saved.

Use FTP Within the Network

File Transfer Protocol (FTP) lets you send and receive large files faster.

➤ **To set up FTP access:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > USB Storage > Advanced Settings**.

USB Storage (Advanced Settings)

Apply Refresh

Network Device Name : readyshare

Workgroup : Workgroup

Enable	Access Method	Link	Port
<input checked="" type="checkbox"/>	Network Connection	\\readyshare	-
<input checked="" type="checkbox"/>	HTTP	http://readyshare.routerlogin.net/shares	80
<input type="checkbox"/>	HTTPS (via internet)	https://0.0.0.0:443/shares	443
<input checked="" type="checkbox"/>	FTP	ftp://readyshare.routerlogin.net/shares	21
<input type="checkbox"/>	FTP (via internet)	ftp://0.0.0.0:21/shares	21

Available Network Folders

	Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
<input type="radio"/>	\\readyshare\USB_Storage	All - no password	All - no password	U:\	HP v100w	1.87 G	914

Help Center Show/Hide Help Center

5. Select the **FTP** check box.

6. Click the **Apply** button.

Your settings are saved.

View or Change Network Folders on a USB Drive

You can view or change the network folders on the USB storage device.

➤ **To view or change network folders:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > USB Storage > Advanced Settings**.

Enable	Access Method	Link	Port
<input checked="" type="checkbox"/>	Network Connection	\\readyshare	-
<input checked="" type="checkbox"/>	HTTP	http://readyshare.routerlogin.net/shares	80
<input type="checkbox"/>	HTTPS (via internet)	https://0.0.0.0:443/shares	443
<input checked="" type="checkbox"/>	FTP	ftp://readyshare.routerlogin.net/shares	21
<input type="checkbox"/>	FTP (via internet)	ftp://0.0.0.0:21/shares	21

Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
Wreadyshare\USB_Storage	All - no password	All - no password	U:\	HP v100w	1.87 G	914

5. Scroll down to the Available Networks Folder section of the page, and view or adjust the following settings:

- **Share Name.** If only one device is connected, the default share name is USB_Storage. (Some modem router models include more than one USB port.)

You can click the name or type it in the address field of your web browser. If Not Shared is shown, the default share was deleted, and no other share for the root folder exists. Click the link to change this setting.

- **Read Access and Write Access.** Show the permissions and access controls on the network folder. All – no password (the default) allows all users to access the network folder. The password for admin is the same one that you use to log in to the modem router.
- **Folder Name.** Full path of the network folder.
- **Volume Name.** Volume name from the storage device (either USB drive or HDD).
- **Total Space and Free Space.** Show the current utilization of the storage device.

6. Click the **Apply** button.

Your settings are saved.

Add a Network Folder on a USB Storage Device

You can add network folders on a USB storage device connected to the modem router USB port.

➤ **To add a network folder:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > ReadySHARE**.

The USB Storage (Advanced Settings) page displays.

5. Click the **Edit** button.

6. Click the **Create Network Folder** button.

USB Device	U: (HP v100w) ▾
Folder	U:\Photos\ Browse
Share Name	Vacation Photos
Read Access	All - no password ▾
Write Access	All - no password ▾
Apply	
Close Window	

If this window does not open, your web browser might be blocking pop-ups. If it is, change the browser settings to allow pop-ups.

7. Complete the fields.

The user name (account name) for All – no password is guest. The password for admin is the same one that is used to log in to the modem router. By default, it is password.

8. Click the **Apply** button.

The folder is added on the USB device.

Edit a Network Folder on a USB Storage Device

You can edit network folders on a USB storage device connected to the modem router USB port.

➤ **To edit a network folder:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > ReadySHARE**.
The USB Storage (Advanced Settings) page displays.
5. Click the **Edit** button.
The Edit Network Folder window opens.
6. Change the settings in the fields as needed.
7. Click the **Apply** button.
Your settings are saved.

Approve USB Storage Devices

For more security, you can set up the modem router to share only USB storage devices that you approve.

➤ **To approve USB devices:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > USB Settings**.

By default, the **Yes** radio is selected. This setting lets you connect and access all your USB drives.

5. Select the **No** radio button.
6. Click the **Approved Devices** button.

The approved and available USB devices display.

7. In the Available USB Devices list, select the drive that you want to approve.
 8. Click the **Add** button.
 9. Select the **Allow only approved devices** check box.
 10. Click the **Apply** button.
- Your settings are saved.
11. To work with another USB device, first click the **Safely Remove USB Device** button for the currently connected USB device. Connect the other USB device, and repeat this process.

Safely Remove a USB Storage Device

Before you physically disconnect a USB storage device from the modem router USB port, log in to the modem router and take the USB storage device offline.

➤ **To remove a USB storage device safely:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **USB Storage > Basic Settings**.
The USB Storage page displays.
5. Click the **Safely Remove USB Device** button.
This takes the drive offline.
6. Physically disconnect the USB drive.

Specify Network Settings

6

This chapter includes the following sections:

- *View or Change the WAN Settings*
- *Change the MTU Size*
- *Set Up a Default DMZ Server*
- *Change the Modem Router's Device Name*
- *Change the LAN TCP/IP Settings*
- *Specify the IP Addresses That the Modem Router Assigns*
- *Manage LAN IP Addresses*
- *Use the WPS Wizard for WiFi Connections*
- *Specify Basic WiFi Settings*
- *Change the WiFi Security Option*
- *Set Up a WiFi Guest Network*
- *Control the WiFi Radios*
- *Specify WPS Settings*
- *Set Up a WiFi Access List*
- *Dynamic DNS*
- *Improve Network Connections With Universal Plug-N-Play*

View or Change the WAN Settings

You can view the wide area network (WAN) settings for the Internet port. You can set up a DMZ (demilitarized zone) server, change the maximum transmit unit (MTU) size, and enable the modem router to respond to a ping to its WAN (Internet) port.

➤ **To view or change the WAN settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

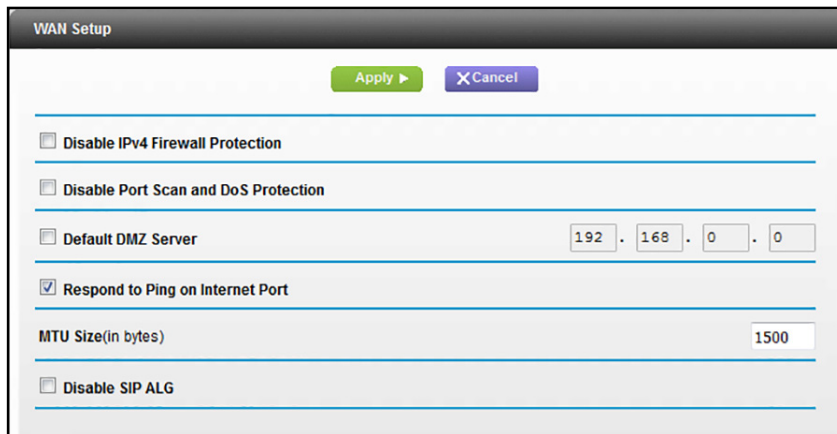
A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > WAN Setup**.



WAN Setup

Apply Cancel

☐ Disable IPv4 Firewall Protection

☐ Disable Port Scan and DoS Protection

☐ Default DMZ Server 192 . 168 . 0 . 0

☒ Respond to Ping on Internet Port

MTU Size(in bytes) 1500

☐ Disable SIP ALG

5. View or change the following settings:
 - **Disable IPv4 Firewall Protection.** The firewall protects your network. Firewall protection is particularly important if you use port forwarding or if you use a DMZ server.
 - **Disable Port Scan and DoS Protection.** DoS protection protects your LAN against denial of service attacks such as Syn flood, Smurf Attack, Ping of Death, and many others. Select this check box only in special circumstances.
 - **Default DMZ Server.** This feature is sometimes helpful when you are playing online games or videoconferencing, but it makes the firewall security less effective. See [Set Up a Default DMZ Server](#) on page 53.
 - **Respond to Ping on Internet Port.** This feature allows your modem router to be discovered. Use this feature only as a diagnostic tool or if there is a specific reason.

- **MTU Size (in bytes).** The normal MTU (maximum transmit unit) value for most Ethernet networks is 1500 bytes, or 1492 bytes for PPPoE connections. Change the MTU only if you are sure that it is necessary for your ISP connection. See [Change the MTU Size](#) on page 51.
 - **Disable SIP ALG.** Some VoIP applications do not work well with the SIP ALG. Selecting this check box to turn off the SIP ALG might help your VoIP devices to create or accept a call through the modem router.
6. Click the **Apply** button.
- Your settings are saved.

Change the MTU Size

The maximum transmission unit (MTU) is the largest data packet that a network device transmits. When one network device communicates across the Internet with another, the data packets travel through many devices along the way. If a device in the data path uses a lower MTU setting than the other devices, the data packets must be split or “fragmented” to accommodate the device with the smallest MTU.

The best MTU setting for NETGEAR equipment is often the default value. In some situations, changing the value fixes one problem but causes another. Leave the MTU unchanged unless one of these situations occurs:

- You experience problems connecting to your ISP or other Internet service, and the technical support of either the ISP or NETGEAR recommends changing the MTU setting. These web-based applications might require an MTU change:
 - A secure website that does not open, or displays only part of a web page
 - Yahoo email
 - MSN portal
 - America Online's DSL service
- You use VPN and are experiencing severe performance problems.
- You used a program to optimize MTU for performance reasons, and now you are experiencing connectivity or performance problems.

Note: An incorrect MTU setting can cause Internet communication problems. For example, you might not be able to access certain websites, frames within websites, secure login pages, or FTP or POP servers.

➤ To change the MTU size:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > WAN Setup**.

5. In the **MTU Size** field, enter a value from 64 to 1500.

6. Click the **Apply** button.

Your settings are saved.

If you suspect an MTU problem, a common solution is to change the MTU to 1400. If you are willing to experiment, you can gradually reduce the MTU from the maximum value of 1500 until the problem goes away. The following table describes common MTU sizes and applications.

Table 3. Common MTU sizes

MTU	Application
1500	The largest Ethernet packet size. This setting is typical for connections that do not use PPPoE or VPN, and is the default value for NETGEAR routers, adapters, and switches.
1492	Used in PPPoE environments.
1472	Maximum size to use for pinging. (Larger packets are fragmented.)
1468	Used in some DHCP environments.
1460	Usable by AOL if you do not use large email attachments, for example.
1436	Used in PPTP environments or with VPN.
1400	Maximum size for AOL DSL.
576	Typical value to connect to dial-up ISPs.

Set Up a Default DMZ Server

The default DMZ server feature is helpful when you are using some online games and videoconferencing applications that are incompatible with Network Address Translation (NAT). The modem router is programmed to recognize some of these applications and to work correctly with them, but other applications might not function well. In some cases, one local computer can run the application correctly if the IP address for that computer is entered as the default DMZ server.



WARNING:

DMZ servers pose a security risk. A computer designated as the default DMZ server loses much of the protection of the firewall and is exposed to exploits from the Internet. If compromised, the DMZ server computer can be used to attack other computers on your network.

The modem router usually detects and discards incoming traffic from the Internet that is not a response to one of your local computers or a service that you configured on the Port Forwarding/Port Triggering page. Instead of discarding this traffic, the modem router can forward the traffic to one computer on your network. This computer is called the default DMZ server.

➤ **To set up a default DMZ server:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > WAN Setup**.

The WAN Setup page displays.

5. Select the **Default DMZ Server** check box.

6. Type the IP address.

7. Click the **Apply** button.

Your settings are saved.

Change the Modem Router's Device Name

The modem router's device name is C3000v2 or C3700v2. This device name displays in a file manager when you browse your network.

➤ **To change the modem router's device name:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > LAN Setup**.

5. In the **Device Name** field, type a new name.

6. Click the **Apply** button.

Your settings are saved.

Change the LAN TCP/IP Settings

The modem router is preconfigured to use private IP addresses on the LAN side and to act as a DHCP server. The modem router's default LAN IP configuration is as follows:

- **LAN IP address.** 192.168.0.1
- **Subnet mask.** 255.255.255.0

These addresses are part of the designated private address range for use in private networks and are suitable for most applications. If your network requires a different IP addressing scheme, you can change these settings.

You might want to change these settings if you need a specific IP subnet that one or more devices on the network use or if you use competing subnets with the same IP scheme.

➤ **To change the LAN TCP/IP settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > LAN Setup**.

LAN Setup

Apply Cancel

Device Name C3000-200NAS

LAN TCP/IP Setup

IP Address 192 . 168 . 0 . 1

IP Subnet Mask 255 . 255 . 255 . 0

☒ Use Gateway as DHCP Server

Starting IP Address 192 . 168 . 0 . 2

Ending IP Address 192 . 168 . 0 . 254

Address Reservation

#	IP Address	Device Name	MAC Address

+Add Edit Delete

5. In the **IP Address** field, type the IP address.

6. In the **IP Subnet Mask** field, type the subnet mask.

The IP address and subnet mask identify which addresses are local to a specific device and which must be reached through a gateway or modem router.

7. Click the **Apply** button.

Your settings are saved.

If you changed the LAN IP address of the modem router, you are disconnected when this change takes effect.

To reconnect, close your browser, relaunch it, and log in to the modem router.

Specify the IP Addresses That the Modem Router Assigns

By default, the modem router acts as a Dynamic Host Configuration Protocol (DHCP) server. The modem router assigns IP, DNS server, and default gateway addresses to all computers connected to the LAN. The assigned default gateway address is the LAN address of the modem router.

These addresses must be part of the same IP address subnet as the modem router's LAN IP address. Using the default addressing scheme, define a range between 192.168.0.2 and 192.168.0.254, although you can save part of the range for devices with fixed addresses.

➤ **To specify the pool of IP addresses that the modem router assigns:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Setup > LAN Setup**.

The screenshot shows the 'LAN Setup' configuration page. At the top, there are 'Apply' and 'Cancel' buttons. Below is the 'Device Name' field with the value 'C3000-200NAS'. Under 'LAN TCP/IP Setup', the 'IP Address' is '192.168.0.1' and the 'IP Subnet Mask' is '255.255.255.0'. The 'Use Gateway as DHCP Server' checkbox is checked. Below this, the 'Starting IP Address' is '192.168.0.2' and the 'Ending IP Address' is '192.168.0.254'. At the bottom, there is an 'Address Reservation' table with columns for '#', 'IP Address', 'Device Name', and 'MAC Address'. Below the table are 'Add', 'Edit', and 'Delete' buttons.

5. Specify the range of IP addresses that the modem router assigns:
 - a. In the **Starting IP Address** field, type the lowest number in the range.

This IP address must be in the same subnet as the modem router.

- b. In the **Ending IP Address** field, type the number at the end of the range of IP addresses.

This IP address must be in the same subnet as the modem router.

6. Click the **Apply** button.

Your settings are saved.

The modem router delivers the following parameters to any LAN device that requests DHCP:

- An IP address from the range that you defined
- Subnet mask
- Gateway IP address (the modem router's LAN IP address)
- DNS server IP address (the modem router's LAN IP address)

Manage LAN IP Addresses

When you specify a reserved IP address for a computer on the LAN, that computer always receives the same IP address each time it accesses the modem router's DHCP server. Assign reserved IP addresses to computers or servers that require permanent IP settings.

Reserve a LAN IP Address

➤ To reserve an IP address:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Setup > LAN Setup**.
The LAN Setup page displays.
5. In the Address Reservation section, click the **Add** button.
6. In the **IP Address** field, type the IP address to assign to the computer or server.
Choose an IP address from the modem router's LAN subnet, such as 192.168.0.x.
7. Type the MAC address of the computer or server.

Tip: If the computer is already on your network, you can copy its MAC address from the Attached Devices page and paste it here.

8. Click the **Apply** button.

The reserved address is entered into the table.

The reserved address is not assigned until the next time the computer contacts the modem router's DHCP server. Reboot the computer, or access its IP configuration and force a DHCP release and renew.

Edit a Reserved Address Entry

➤ **To edit a reserved address entry:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Setup > LAN Setup**.
The LAN Setup page displays.
5. Select the radio button next to the reserved address.
6. Click the **Edit** button.
7. Change the settings.
8. Click the **Apply** button.
Your settings are saved.

Delete a Reserved Address Entry

➤ **To delete a reserved address entry:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Setup > LAN Setup**.
The LAN Setup page displays.

5. Select the radio button next to the reserved address.
6. Click the **Delete** button.

The address is removed.

Use the WPS Wizard for WiFi Connections

The WPS Wizard helps you add a WiFi computer or device to your WiFi network without typing the WiFi password.

➤ To use the WPS Wizard:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > WPS Wizard**.
A page displays that explains WPS.
5. Click the **Next** button.
The WPS page displays.
6. Select the radio button for the setup method that you want to use.
 - **Push button**. Click the **WPS** button on this page.
 - **PIN Number**. The page adjusts. Enter the client security PIN, and click the **Next** button.
7. Within two minutes, go to the client device and use its WPS software to connect to the WiFi network.

The WPS process automatically sets up your WiFi computer with the network password when it connects. The modem router WPS page displays a confirmation message.

Specify Basic WiFi Settings

The modem router comes with preset security. This means that the WiFi network name (SSID), network key (password), and security option (encryption protocol) are preset in the factory. The preset SSID and password are on the modem router label. The preset SSID and password are uniquely generated for every device to maximize your WiFi security.

If you change your preset security settings, make a note of the new settings and store it in a safe place where you can easily find it.

If you use a WiFi computer to change the WiFi network name (SSID) or other WiFi security settings, you are disconnected when you click the **Apply** button. To avoid this problem, use a computer with a wired connection to access the modem router.

➤ To specify basic WiFi settings:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **Wireless**.

5. From the **Region** menu, select your region.

In some locations, you cannot change this setting.

6. To turn off the WiFi radio, scroll down and clear the **Enable WiFi Gateway radio** check box.

If you clear this check box, you cannot use WiFi to connect to the modem router.

7. To control the SSID broadcast, select or clear the **Enable SSID Broadcast** check box.

When this check box is selected, the modem router broadcasts its network name (SSID) so that the name displays when you scan for local WiFi networks on your WiFi-enabled computer or mobile device.

8. To change the network name (SSID), type a new name in the **Name (SSID)** field.

The name can be up to 32 characters long and it is case-sensitive. The default SSID is randomly generated and is on the modem router label. If you change the name, make sure to write down the new name and keep it in a safe place.

9. To change the WiFi channel, select a number from the **Channel** menu.

In some regions, not all channels are available. Do not change the channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, experiment with different channels to see which is the best.

When you use multiple access points, it is better if adjacent access points use different channels to reduce interference. The recommended channel spacing between adjacent access points is four channels (for example, use Channels 1 and 5, or 6 and 10).

10. To change the mode, select it from the **Mode** menu.

Up to 145 Mbps is the default setting, which allows 802.11n and 802.11g WiFi devices to join the network. **g & b** supports up to 54 Mbps. The **300-Mbps** setting allows 802.11n devices to connect at this speed.

11. Click the **Apply** button.

Your settings are saved.

If you used a WiFi network connection and you changed the SSID, you are disconnected from the network.

12. Make sure that you can use WiFi to connect to the network with its new settings.

If you cannot connect, check the following:

- Is your WiFi-enabled computer or mobile device connected to another WiFi network in your area? Some WiFi devices automatically connect to the first open network without WiFi security that they discover.
- Is your WiFi-enabled computer or mobile device trying to connect to your network with its old settings (before you changed the settings)? If so, update the WiFi network selection in your WiFi-enabled computer or mobile device to match the current settings for your network.

Change the WiFi Security Option

Your modem router comes with preset WPA2 and WPA security. The password that you enter to connect to your network is unique to your modem router and is on the modem router label.

We recommend that you do not disable security.

➤ **To change the WPA settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **WiFi**.

The Wireless Settings page displays.

5. Under Security Options, select a WPA option:

- **WPA2-PSK [AES]**
- **WPA-PSK [TKIP] + WPA2-PSK [AES]**

The WPA2 options use the newest standard for the strongest security, but some older computers and WiFi devices cannot use WPA2. By default, the **WPA-PSK [TKIP] + WPA2-PSK [AES]** radio button is selected so that new or old computers and WiFi devices can connect to the WiFi network by using either WPA2 or WPA security.

The **Passphrase** field displays.

6. In the **Passphrase** field, enter the network key (password) that you want to use.

It is a text string from 8 to 63 characters.

7. Write down the new password and keep it in a secure place for future reference.

8. Click the **Apply** button.

Your settings are saved.

Set Up a WiFi Guest Network

A guest network allows visitors at your home to use the Internet without using your WiFi security key.

➤ **To set up a guest network:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **Guest Network**.

5. Select any of the following WiFi settings:
 - **Enable Guest Network.** When this check box is selected, the guest network is enabled, and guests can connect to your network using the SSID of this profile.
 - **Enable SSID Broadcast.** If this check box is selected, the WiFi modem router broadcasts its name (SSID) to all WiFi stations. Stations with no SSID can adopt the correct SSID for connections to this modem router.
 - **Allow guest to see each other and access my local network.** If this check box is selected, anyone who connects to this SSID can access to your local network, not just the Internet.
6. Give the guest network a name.

The guest network name is case-sensitive and can be up to 32 characters. You then manually configure the WiFi devices in your network to use the guest network name in addition to the main SSID.

7. Select a security option.

The WPA2 options use the newest standard for the strongest security, but some older computers and WiFi devices cannot use it. We recommend that you select the **WPA-PSK [TKIP] + WPA2-PSK [AES]** radio button. This setting protects your WiFi network and lets computers and WiFi devices connect to the WiFi network by using either WPA2 or WPA security.

8. Click the **Apply** button.

Your settings are saved.

Control the WiFi Radios

The modem router internal WiFi radios broadcasts signals in the 2.4 GHz range. The C3700v2 modem router also broadcasts in the 5 GHz range. By default, these radios are on so that you can use WiFi to connect to the modem router. When the WiFi radios are off, you can still use an Ethernet cable for a LAN connection to the modem router.

You can turn the WiFi radios on and off with the **WiFi On/Off** button on the modem router, or you can log in to the modem router and enable or disable the WiFi radios. If you are close to the modem router, it might be easier to press its **WiFi On/Off** button. If you are away from the modem router or you already logged in, it might be easier to enable or disable the radios.

Use the WiFi On/Off Button

- **To turn the WiFi radio off and on with the WiFi On/Off button:**

Press the **WiFi On/Off** button on the modem router for two seconds.

If you turned off the WiFi radio, the WiFi On/Off LED and the WPS LED turn off. If you turned on the WiFi radio, the WiFi On/Off LED and the WPS LED light.

Enable or Disable the WiFi Radios

If you used the **WiFi On/Off** button to turn off the WiFi radios, you can't log in to the modem router to turn them back on. You must press the **WiFi On/Off** button again for two seconds to turn the WiFi radios back on.

- **To enable or disable the WiFi radios:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Wireless Settings**.

Wireless Settings

Apply Cancel

Wireless Advanced Settings

☒ Enable Wireless Gateway Radio

Fragmentation Length (256-2346): 2346

CTS/RTS Threshold (1-2347): 2347

Preamble Mode: Long Preamble

☐ Turn off wireless signal by schedule

The wireless signal is scheduled to turn off during the following time period:

Period	Start	End	Recurrence pattern
+ Add a new period Edit Delete			

WPS Settings

Gateway's PIN: 12345670

☐ Disable Gateway's PIN

☒ Keep Existing Wireless Settings

WMM

☒ WMM Support

PMF

Protected Management Frames: Off

WMF

☒ Wireless Multicast Forwarding

ATF

☐ Enable Airtime Fairness

5. Select or clear the **Disable WiFi Gateway Radio** check box.

Clearing this check box turns off the WiFi feature of the modem router.

6. Click the **Apply** button.

If you turned off the WiFi radio, the WiFi On/Off LED and the WPS LED turn off. If you turned on the WiFi radio, the WiFi On/Off LED and the WPS LED light.

Specify WPS Settings

Wi-Fi Protected Setup (WPS) lets you join the WiFi network without typing the WiFi password.

➤ To specify WPS settings:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Wireless Settings**.

The Wireless Settings page displays.

The Router's PIN field displays the PIN that you use on a registrar (for example, from the Network Explorer on a Vista Windows computer) to configure the modem router's WiFi settings through WPS.

5. Select or clear the **Disable Gateway's PIN** check box.

The PIN function might temporarily be disabled when the modem router detects suspicious attempts to break into the modem router's WiFi settings by using the modem router's PIN through WPS. You can manually enable the PIN function by clearing the **Disable Gateway's PIN** check box.

6. Select or clear the **Keep Existing Wireless Settings** check box.

By default, the **Keep Existing Wireless Settings** check box is selected. We recommend that you leave this check box selected.

If you clear this check box, the next time a new WiFi client uses WPS to connect to the modem router, the modem router WiFi settings change to an automatically generated random SSID and security key.

7. Click the **Apply** button.

Your settings are saved.

Set Up a WiFi Access List

By default, any WiFi computer or device that is configured with the correct SSID is allowed access to your WiFi network. For increased security, allow only specific WiFi computers and devices to access the WiFi network based on their MAC addresses.

➤ To set up WiFi access:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Wireless Settings**.

The Advanced Wireless page displays.

- Click the **Set Up Access List** button.

The Wireless Card Access List page displays.

- Select the **Turn Access Control On** check box.

- Click the **Set Up Access List** button.

- In the **Network Profiles (2.4 GHz b/g/n)** list, select the radio button for the SSID (WiFi network) that you want to use the access list for.
- Select the **Turn Access Control On** check box and select one of the following radio buttons:
 - Allow List.** Allow computers and devices in the list to connect with WiFi.
 - Deny List.** Deny WiFi access to computers and devices in the list.
- Click the **Add** button.

The page displays a list of available WiFi devices.

11. To add a device from the Available Wireless Cards list, do the following:

- a. Select the device.
- b. Click the **Add** button.

The device displays in the Wireless Card Access list.

12. To add a computer or device that is not in the list, do the following:

- a. Type a name in the **Device Name** field.
- b. Type the MAC address in the **MAC Address** field.

The MAC address is found on the computer or device.

- c. Click the **Add** button.

The device displays in the Wireless Card Access list.

13. Click the **Apply** button.

Your settings are saved.

Dynamic DNS

If your Internet service provider (ISP) gave you a permanently assigned IP address, you can register a domain name and link that name with your IP address using public Domain Name Servers (DNS). However, if your Internet account uses a dynamically assigned IP address, you do not know in advance what your IP address is, and the address can change frequently. In this case, you can use a commercial Dynamic DNS service. This type of service lets you register your domain to their IP address and forwards traffic directed at your domain to your frequently changing IP address.

If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), the Dynamic DNS service does not work because private addresses are not routed on the Internet.

Your modem router contains a client that can connect to the Dynamic DNS service that Dyn provided. First visit their website at www.dyns.com/dyn and obtain an account and host name that you configure in the modem router. Then, whenever your ISP-assigned IP address changes, your modem router automatically contacts the Dynamic DNS service provider, logs in to your account, and registers your new IP address.

➤ To set up Dynamic DNS:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Dynamic DNS**.

5. Register for an account with one of the Dynamic DNS service providers whose URLs display in the **Service Provider** list.
6. Select the **Use a Dynamic DNS Service** check box.
7. Select the URL for your Dynamic DNS service provider.
8. Type the host name (or domain name) that your Dynamic DNS service provider gave you.
9. Type the user name for your Dynamic DNS account.
This name is the name that you use to log in to your account, not your host name.
10. Type the password (or key) for your Dynamic DNS account.
11. Click the **Apply** button.

Your settings are saved.

Improve Network Connections With Universal Plug-N-Play

Universal Plug-N-Play (UPnP) helps devices, such as Internet appliances and computers, access the network and connect to other devices as needed. UPnP devices can automatically discover the services from other registered UPnP devices on the network.

If you use applications such as multiplayer gaming, peer-to-peer connections, or real-time communications such as instant messaging or remote assistance (a feature in Windows XP), enable UPnP.

➤ To enable Universal Plug-N-Play:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > UPnP**.

5. Select the **Turn UPnP On** check box.

By default, this check box is selected. If the **Turn UPnP On** check box is cleared, the modem router does not allow any device to automatically control router resources, such as port forwarding.

6. Type the advertisement period in minutes.

The advertisement period specifies how often the modem router broadcasts its UPnP information. This value can range from 1 to 1440 minutes. The default period is 30 minutes. Shorter durations ensure that control points use the current device status at the expense of more network traffic. Longer durations can compromise the freshness of the device status but can significantly reduce network traffic.

7. Type the advertisement time to live in hops.

The time to live for the advertisement is measured in hops (steps) for each UPnP packet sent. Hops are the steps a packet takes between routers. The number of hops can range from 1 to 255. The default value for the advertisement time to live is 4 hops, which should be fine for most home networks. If you notice that some devices are not being updated or reached correctly, it might be necessary to increase this value.

8. Click the **Apply** button.

The UPnP Portmap Table displays the IP address of each UPnP device that is accessing the modem router and which ports (internal and external) that device opened. The UPnP Portmap Table also displays what type of port is open and whether that port is still active for each IP address.

9. To refresh the information in the UPnP Portmap Table, click the **Refresh** button.

Manage Your Network

7

This chapter describes the modem router settings for administering and maintaining your modem router and home network.

This chapter includes the following sections:

- *View Modem Router Status*
- *Reboot the Modem Router*
- *Change the Router Mode*
- *View and Manage Logs of Modem Router Activity*
- *Manage the Modem Router Configuration File*
- *Change the admin Password*
- *View Event Logs*
- *Run the Ping Utility*
- *Run the Traceroute Utility*
- *View WiFi Access Points in Your Area*
- *View or Change the Modem Router WiFi Channel*
- *Remote Management*
- *Control the LED Settings*

View Modem Router Status

➤ **To view modem router status and usage information:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Click the **ADVANCED** tab.

✓ Cable Information		✓ Internet Port	
Hardware Version	1.04	MAC Address	E0:46:9A:F3:5B:85
Firmware Version	V1.01.14	IP Address/Mask	10.10.45.16/24
Cable Modem Serial Number	4M9177WY00038	Connection	DHCP
CM certificate	Installed	Default Gateway	10.10.45.1
CM MAC	E0:46:9A:F3:5B:84	Domain Name Server	172.29.16.12
LAN Port			
MAC Address	E0:46:9A:F3:5B:87		
IP Address/Mask	192.168.0.1/24		
DHCP	On		
Factory reset Reboot		Show Statistics Connection Status	

✓ Wireless Settings (2.4GHz)		✗ Guest Network (2.4 GHz)	
Name (SSID)	NETGEAR08	Name (SSID)	NETGEAR-Guest
Region	United States	Wireless AP	Off
Channel	Auto (1)	Broadcast Name	On
Mode	Up to 300 Mbps	Allow guest to access	Off
Wireless AP	On	My Local Network	Off
Broadcast Name	On		
Wi-Fi Protected Setup	Configured		

View Cable Information

➤ **To view modem router cable information:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Click the **ADVANCED** tab.

The ADVANCED Home page displays.

The Cable Information pane displays the following information:

- **Hardware Version.** The modem router model.
- **Firmware Version.** The version of the modem router firmware.
- **Cable Modem Serial Number.** The serial number of the cable modem.
- **CM Certificate.** The status of the cable modem certificate. If Not installed displays as the status, contact your Internet service provider.
- **CM MAC.** The MAC address of the cable modem.
- **LAN Port.** The MAC address of LAN port 1. The following information also displays:
 - **MAC Address.** The Media Access Control address. This address is the unique physical address that the Ethernet (LAN) port of the modem router uses.
 - **IP Address.** The IP address that the Ethernet (LAN) port of the modem router uses. The default is 192.168.0.1.
 - **DHCP Server.** Identifies whether the built-in DHCP server of the modem router is active for the LAN-attached devices.

For information about using the **Reboot** button, see *Reboot the Modem Router* on page 75.

View Internet Port Information

➤ **To view modem router Internet port information:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Click the **ADVANCED** tab.

The ADVANCED Home page displays.

The Internet Port pane displays these WAN Internet port settings:

- **MAC Address.** The MAC address of the WAN Internet port.
- **IP Address/Mask.** The IP address of the WAN Internet port.
- **Connection.** The type of WAN Internet port connection.
- **Default Gateway.** The IP address of the default gateway.
- **Domain Name Server.** The IP address of the Domain Name Server.

View WiFi Settings

Note: Model C3000v2 broadcasts a WiFi signal in the 2.4 GHz band. Model C3700v2 is dual-band, so it broadcasts WiFi signals in both the 2.4 GHz band and the 5 GHz band.

➤ **To view WiFi settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Click the **ADVANCED** tab.

The ADVANCED Home page displays.

The WiFi Settings (2.4 GHz) pane and the and WiFi Settings (5 GHz) pane for the C3700v2 display the following information:

- **Name (SSID).** The WiFi network name (SSID) that the modem router uses.
- **Region.** The geographic region where the modem router is being used. It is illegal to use the WiFi features of the modem router in some parts of the world.
- **Channel.** The operating channel of the WiFi port being used.
- **Mode.** The WiFi communication mode settings.
- **WiFi AP.** Indicates whether the modem router WiFi radio is on or off. If the WiFi radio is turned off, the WiFi On/Off LED on the front panel is off.
- **Broadcast Name.** Indicates whether the modem router is broadcasting its SSID.
- **WiFi Isolation.** Indicates if WiFi isolation is enabled. When WiFi isolation is enabled, WiFi clients can connect to the Internet, but cannot access each other or access Ethernet devices on the network.
- **Wi-Fi Protected Setup.** Indicates whether Wi-Fi Protected Setup is configured for this network.

Reboot the Modem Router

Rebooting the modem router disconnects all computers and mobile devices from the modem router's network.

➤ **To reboot the modem router:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Click the **ADVANCED** tab.

✓ Cable Information		✓ Internet Port	
Hardware Version	1.04	MAC Address	E0:46:9A:F3:5B:85
Firmware Version	V1.01.14	IP Address/Mask	10.10.45.16/24
Cable Modem Serial Number	4M9177WY00038	Connection	DHCP
CM certificate	Installed	Default Gateway	10.10.45.1
CM MAC	E0:46:9A:F3:5B:84	Domain Name Server	172.29.16.12
LAN Port			
MAC Address	E0:46:9A:F3:5B:87		
IP Address/Mask	192.168.0.1/24		
DHCP	On		
Factory reset Reboot		Show Statistics Connection Status	

✓ Wireless Settings (2.4GHz)		✗ Guest Network (2.4 GHz)	
Name (SSID)	NETGEAR08	Name (SSID)	NETGEAR-Guest
Region	United States	Wireless AP	Off
Channel	Auto (1)	Broadcast Name	On
Mode	Up to 300 Mbps	Allow guest to access My Local Network	Off
Wireless AP	On		
Broadcast Name	On		
Wi-Fi Protected Setup	Configured		

5. In the Cable Information pane, click the **Reboot** button.

A confirmation message displays.

6. Click the **OK** button.

The modem router reboots.

Change the Router Mode

By default, the modem router is in router mode. This means that it works both as a modem and as a router. You can share the Internet connection without using another router or gateway. If you want to connect a gateway or router to the modem router, you must log in to the modem router and change its Router Mode setting.

➤ **To change the router mode:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

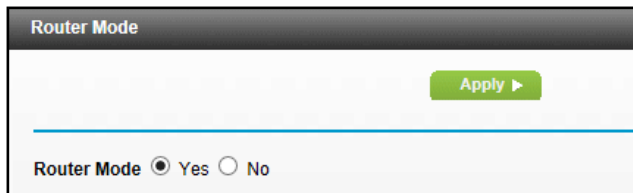
A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Router Mode**.



5. Select one of the radio buttons:
 - **Yes**. This is the default setting. The modem router performs router functions such as Network Address Translation (NAT).
 - **No**. With this setting, the modem router works as a bridge and obtains IP addresses from the Internet service provider.
6. Click the **Apply** button.

Your settings are saved.

View and Manage Logs of Modem Router Activity

The log is a detailed record of website access and router activity. Up to 256 entries are stored in the log. Log entries display only when keyword blocking is enabled. No log entries are made for the trusted LAN client.

➤ **To view and manage logs:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Logs**.

Description	Count	Last Occurrence	Target	Source
TCP- or UDP-based Port Scan]	3	Tue Nov 15 19:16:06 2016	10.10.45.17.49270	172.29.16.12.53
[SUCCESS: User interface login]	1	Tue Nov 15 18:56:32 2016	192.168.0.1.80	192.168.0.3.51007
TCP- or UDP-based Port Scan]	1	Tue Nov 15 18:55:15 2016	10.10.45.17.59650	172.29.16.12.53
[SUCCESS: User interface login]	1	Tue Nov 15 18:53:58 2016	192.168.0.1.80	192.168.0.3.50787
[FAILURE: User interface login]	3	Tue Nov 15 18:53:55 2016	192.168.0.1.80	192.168.0.3.50783
[SUCCESS: User interface login]	1	Tue Nov 15 18:53:21 2016	192.168.0.1.80	192.168.0.3.50662
[FAILURE: User interface login]	3	Tue Nov 15 18:53:17 2016	192.168.0.1.80	192.168.0.3.50656
[SUCCESS: User interface login]	1	Tue Nov 15 18:53:09 2016	192.168.0.1.80	192.168.0.3.50645
[Internet connected]	1	Tue Nov 15 04:32:28 2016	10.10.45.17.0	0.0.0.0
[Firewall Up]	1	Tue Nov 15 04:31:59 2016	...	...
[Public Network interface up]	1	Tue Nov 15 04:31:59 2016	...	...
[Internet disconnected]	1	Tue Nov 15 04:31:30 2016	...	...
[Internet connected]	1	Thu Jan 01 00:01:36 1970	10.10.45.17.0	0.0.0.0
[Firewall Up]	1	Thu Jan 01 00:01:18 1970	...	...
[Public Network interface up]	1	Thu Jan 01 00:01:18 1970	...	...
[Internet disconnected]	1	Thu Jan 01 00:05:11 1970	...	...

The log screen shows the following information:

- **Description.** The action that occurred.
 - **Count.** The number of occurrences.
 - **Last Occurrence.** The date and time the log entry was recorded.
 - **Target.** The name or IP address of the website or news group visited or to which access was attempted.
 - **Source.** The source IP address of the initiating device for this log entry.
5. To customize the log, clear or select the check boxes at the bottom of the page.
 6. To save your changes, click the **Apply** button.
 7. To refresh the log screen, click the **Refresh** button.
 8. To clear the log entries, click the **Clear Log** button.
 9. To send the log immediately, click the **Send Log** button.

Manage the Modem Router Configuration File

The configuration settings of the modem router are stored within the modem router in a configuration file. You can back up (save) this file to your computer, restore it, or reset it to the factory default settings.

Back Up Settings

➤ **To back up the modem router's configuration settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Backup Settings**.

5. Click the **Back Up** button.

6. When prompted, specify a location on your network.

A copy of the current settings is saved in the location you specified.

Restore Configuration Settings

➤ **To restore configuration settings that you backed up:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Backup Settings**.

The Backup Settings page displays.

5. Click the **Browse** button to find and select the `.cfg` file.

6. Click the **Restore** button.

The file is uploaded to the modem router and the modem router reboots.



WARNING:

Do not interrupt the reboot process.

Erase the Current Configuration Settings

You can erase the current configuration and restore the factory default settings. You might want to do this if you move the modem router to a different network. (For more information, see [Factory Default Settings](#) on page 105.)

➤ **To erase the configuration settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Backup Settings**.

The Backup Settings page displays.

5. Click the **Erase** button.

The factory default settings are restored. The user name is admin, the password is password, and the LAN IP address is 192.168.0.1. DHCP is enabled.

Change the admin Password

When you first set up the modem router, you are prompted to change the password that is used to log in to the modem router with the user name admin. You can change this password at any time. This password is not the one that you use for WiFi access. The modem router label shows your unique WiFi network name (SSID) and password for WiFi access.

Note: Be sure to change the modem router login password to a secure password. The ideal password contains no dictionary words from any language and contains uppercase and lowercase letters, numbers, and symbols. It can be up to 30 characters.

➤ **To set the password for the user name admin:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Set Password**.

5. Type the old password.
6. Type the new password in the **Set Password** field.
7. Type the new password in the **Repeat New Password** field.
8. Select security questions and enter the answers.
9. Click the **Apply** button.

Your settings are saved.

View Event Logs

Event logs capture important modem router events.

➤ To view the event logs:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Event Log**.

Time	Priority	Description
2016-11-15, 19:15:54.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 16:29:21.0	Error (4)	DHCP RENEW WARNING - Field invalid in response v4 option;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 16:29:20.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 10:29:21.0	Error (4)	DHCP RENEW WARNING - Field invalid in response v4 option;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 10:28:17.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 04:31:54.0	Error (4)	SW upgrade Failed before download - File not Present
2016-11-15, 04:31:50.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 04:31:45.0	Notice (6)	SW Download INIT - Via Config file netgear_cm_FWUpgrade.cfg
2016-11-15, 04:31:43.0	Warning (5)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 04:31:43.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 04:31:42.0	Warning (5)	DHCP WARNING - Non-critical field invalid in response ;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.0;CM-VER=3.0;
2016-11-15, 04:31:40.0	Notice (6)	Honoring MDD: IP provisioning mode = IPv4
2016-11-15, 04:31:35.0	Critical (3)	No Ranging Response received - T3 time-out;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.0;CM-VER=3.0;
2016-11-15, 04:31:31.0	Warning (5)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
2016-11-15, 04:31:26.0	Error (4)	ToD request sent - No Response received;CM-MAC=10.da.43.51.46:c9;CMTS-MAC=00.01.5c.22.b0.42;CM-QOS=1.1;CM-VER=3.0;
Time Not Established	Error (4)	SW upgrade failed before download - File not Present

The Event Log page shows the following information:

- **Time.** The time the event log entry was recorded.
 - **Priority.** The severity of this event.
 - **Description.** A description of this event.
5. To refresh the Event Log page, click the **Refresh** button.
 6. To clear the log entries, click the **Clear Log** button.

Run the Ping Utility

Ping is an administration utility that tests whether a computer on the network is reachable and measures the time it takes messages sent from the originating device to reach a destination computer and return.

➤ **To run a ping test:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Diagnostics**.

In the **Utility** menu, Ping is selected by default.

5. Specify the following parameters for the ping utility:
 - **Target.** The IP address of the ping target computer.
 - **Ping Size.** The size (in bytes) of the ping packet.
 - **No. of Pings.** The number of times to ping the target computer.
 - **Ping Interval.** The time between pings.
6. Click the **Start Test** button.
The ping results display.
7. To stop a ping test, click the **Abort Test** button.
8. To clear the results from the display, click the **Clear Results** button.

Run the Traceroute Utility

To display the route and measure transit delays of packets across an IP network, run the traceroute utility.

➤ **To run a traceroute test:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

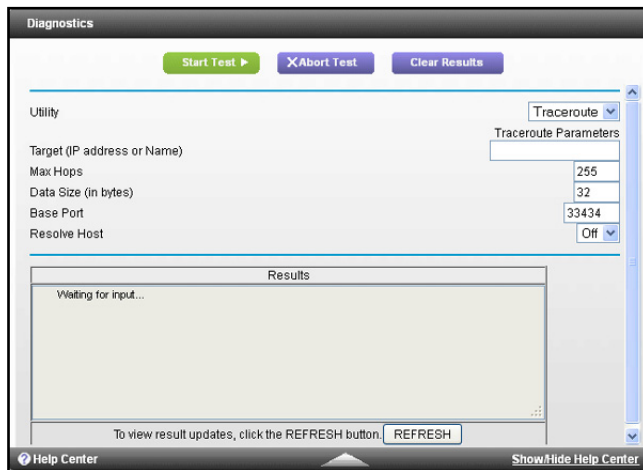
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Diagnostics**.

The Diagnostics page displays.

5. In the **Utility** menu, select **Traceroute**.



6. Specify the following parameters for the traceroute utility:
 - **Target.** The IP address or host name of the computer that you are tracing.
 - **Max Hops.** The maximum number of hops to allow when tracing the route.
 - **Data Size.** The input the size (in bytes) of the packet.
 - **Base Port.** The port number to send the packet to.
 - **Resolve Host.** Select **On** to resolve the host name to the IP address.
7. Click the **Start Test** button.
The traceroute results display.
8. To clear the results from the display, click the **Clear Results** button.

View WiFi Access Points in Your Area

You can view WiFi networks, or access points, in your area and select and join a WiFi network.

➤ **To view WiFi access points (APs):**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

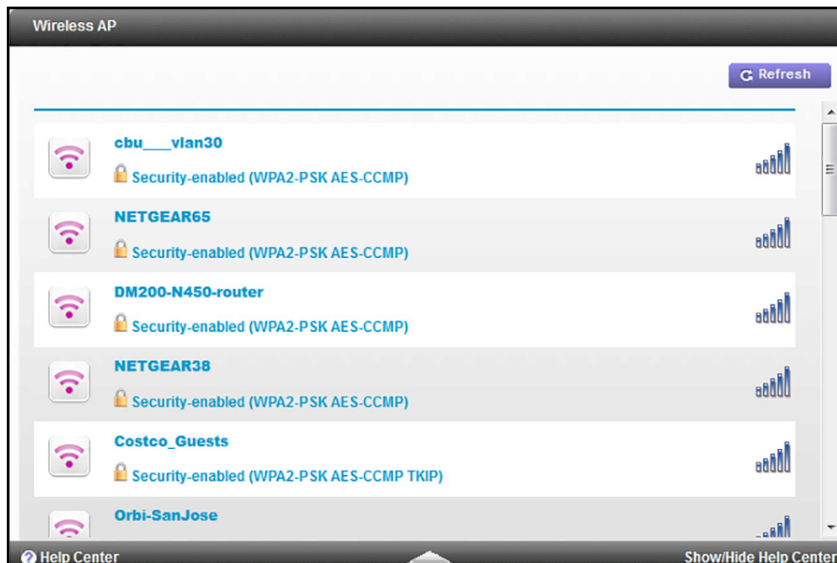
A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Wireless AP**.



On this page, you can view and select WiFi access points in use in your area.

View or Change the Modem Router WiFi Channel

➤ **To view or change your WiFi channel:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

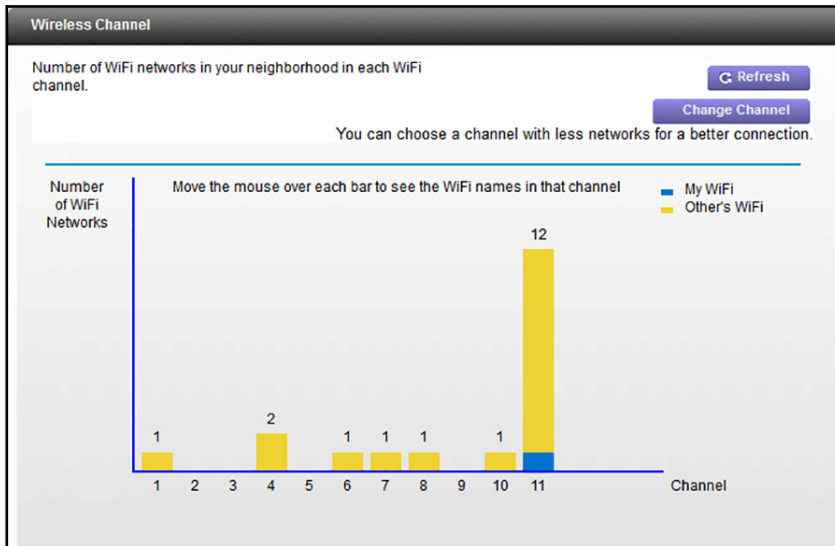
A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Administration > Wireless Channel**.



The page displays WiFi channels in use in the 2.4 GHz WiFi band. Your network is shown in blue. Yellow shows other networks in your area. Laws or guidelines in many countries and geographic locations specify which channels can be used. Depending on your location, some channels might not be available.

If many WiFi networks at your location use the same channel as your WiFi network, you might experience interference. You can change the channel to avoid the interference.

5. For the C3700v2, to view WiFi channels in use in the 5 GHz WiFi band, select the **5 GHz a/n** radio button.
6. To change the WiFi channel, click the **Change Channel** button.

The Wireless Settings page displays.

7. From the **Channel** menu, select a different channel setting.
8. Click the **Apply** button.

Your settings are saved.

Remote Management

The remote management feature lets you access your modem router over the Internet to view or change its settings.

Note: Be sure to change the modem router login password to a secure password. The ideal password contains no dictionary words from any language and contains uppercase and lowercase letters, numbers, and symbols. It can be up to 30 characters. See *Change the admin Password* on page 80.

Set Up Remote Management

➤ To set up remote management:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Remote Management**.

5. Select the **Turn Remote Management On** check box.
6. Under Allow Remote Access By, specify the external IP addresses to be allowed to access the modem router's remote management.

For enhanced security, restrict access to as few external IP addresses as practical.

Select one of the following:

- To allow access from a single IP address on the Internet, select the **Only This Computer** radio button. Enter the IP address that will be allowed access.

- To allow access from a range of IP addresses on the Internet, select the **IP Address Range** radio button. Enter a beginning and ending IP address.
 - To allow access from any IP address on the Internet, select the **Everyone** radio button.
7. Specify the port number for accessing the modem router's web pages.
- Normal web browser access uses the standard HTTP service port 80. For greater security, enter a custom port number for accessing the modem router's web pages remotely. Choose a number from 1024 to 65535, but do not use the number of any common service port. The default is 8080, which is a common alternate for HTTP.
8. Click the **Apply** button.
- Your settings are saved.

Use Remote Access

➤ **To use remote access:**

1. Launch a web browser on a computer that is not on your home network.
2. Type your modem router's WAN IP address into your browser's address or location field followed by a colon (:) and the custom port number.

For example, if your external address is 134.177.0.123 and you use port number 8080, enter **http://134.177.0.123:8080** in your browser.

Control the LED Settings

You can enable or disable LED blinking when data traffic is detected, and you can turn off all LEDs except the Power LED.

➤ **To control the LED settings:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.

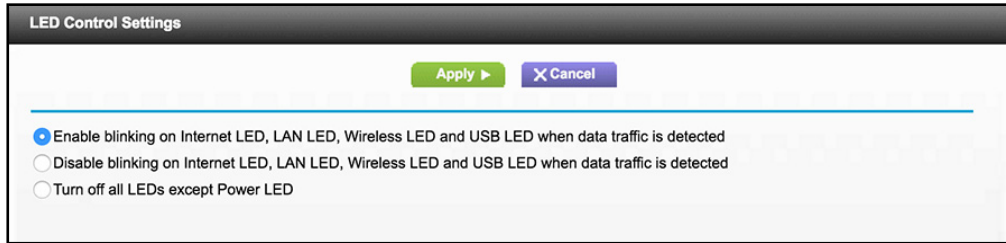
A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > LED Control Settings**.

A screenshot of the 'LED Control Settings' web interface. At the top, there's a dark header bar with the title 'LED Control Settings'. Below the header, there are two buttons: a green 'Apply' button with a right-pointing arrow and a purple 'Cancel' button with a white 'X'. A horizontal blue line separates the buttons from the settings below. There are three radio button options: the first is selected (blue dot) and reads 'Enable blinking on Internet LED, LAN LED, Wireless LED and USB LED when data traffic is detected'; the second is unselected (white dot) and reads 'Disable blinking on Internet LED, LAN LED, Wireless LED and USB LED when data traffic is detected'; the third is unselected (white dot) and reads 'Turn off all LEDs except Power LED'.

5. Select a radio button.
 6. Click the **Apply** button.
- Your settings are saved.

Specify Internet Port Settings

8

You can use port forwarding and port triggering to set up rules for Internet traffic. You need networking knowledge to set up these features.

This chapter includes the following sections:

- *Set Up Port Forwarding to a Local Server*
- *Set Up Port Triggering*

Set Up Port Forwarding to a Local Server

If your home network includes a server, you can allow certain types of incoming traffic to reach the server. For example, you might want to make a local web server, FTP server, or game server visible and available to the Internet.

The modem router can forward incoming traffic with specific protocols to computers on your local network. You can specify the servers for applications and you can also specify a default DMZ server to which the modem router forwards all other incoming protocols.

➤ **To forward specific incoming protocols:**

1. Decide which type of service, application, or game you want to provide.
2. Find the local IP address of the computer on your network that will provide the service.

The server computer must always use the same IP address. To specify this setting, use the reserved IP address feature. See [Manage LAN IP Addresses](#) on page 57.

3. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
4. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

5. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

6. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.

7. Leave the **Port Forwarding** radio button selected as the service type.

8. From the **Service Name** menu, select the service name.

If the service that you want to add is not in the list, create a custom service. See [Add a Custom Port Forwarding Service](#) on page 91.

9. In the **Server IP Address** field, enter the IP address of the computer that will provide the service.
10. Click the **Add** button.

The service displays in the list.

Add a Custom Port Forwarding Service

➤ To add a custom service:

1. Find out which port number or range of numbers the application uses.

You can usually find this information by contacting the publisher of the application or user groups or news groups.

2. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
3. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

4. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

5. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.

The Port Forwarding/Port Triggering page displays.

6. Leave the **Port Forwarding** radio button selected as the service type.
7. Click the **Add Custom Service** button.

8. In the **Service Name** field, enter a descriptive name.

9. In the **Service Type** menu, select the protocol.
If you are unsure, select **TCP/UDP**.
10. In the **External Starting Port** field, enter the beginning port number.
If the application uses a single port, enter the same port number in the **Ending Port** field.
If the application uses a range of ports, enter the ending port number of the range in the **External Ending Port** field.
11. To specify the internal starting and ending ports, do one of the following:
 - Type the port numbers in the **Internal Starting Port** and **Internal Ending Port** fields.
 - Select the **Use the same port range for internal ports** check box.
12. Type the IP address in the **Internal IP address** field or select the radio button for an attached device listed in the table.
13. Click the **Apply** button.
The service is now in the list on the Port Forwarding/Port Triggering page.

Edit a Port Forwarding Service

➤ To edit a port forwarding entry:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.
The Port Forwarding/Port Triggering page displays.
5. Leave the **Port Forwarding** radio button selected as the service type.
6. In the table, select the radio button next to the service name.
7. Click the **Edit Service** button.
The Ports - Custom Services page displays.
8. Specify changes to the settings.
9. Click the **Apply** button.
Your settings are saved.

Delete a Port Forwarding Entry

➤ To delete a port forwarding entry:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.
The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.
The BASIC Home page displays.
4. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.
The Port Forwarding/Port Triggering page displays.
5. Select the **Port Forwarding** radio button as the service type.
6. In the table, select the radio button next to the service name.
7. Click the **Delete Service** button.
The service is deleted.

Application Example: Make a Local Web Server Public

If you host a web server on your local network, you can use port forwarding to allow web requests from anyone on the Internet to reach your web server.

➤ To make a local web server public:

1. Assign your web server either a fixed IP address or a dynamic IP address using DHCP address reservation.
In this example, your modem router always gives your web server an IP address of 192.168.0.33.
2. On the Port Forwarding/Port Triggering page, configure the modem router to forward the HTTP service to the local address of your web server at **192.168.0.33**.
HTTP (port 80) is the standard protocol for web servers.
3. (Optional) Register a host name with a Dynamic DNS service, and specify that name on the Dynamic DNS page of the modem router.
For more information, see [Dynamic DNS](#) on page 68.
Dynamic DNS makes it much easier to access a server from the Internet because you can type the name in the Internet browser. Otherwise, you must know the IP address that the ISP assigned, which typically changes.

How the Modem Router Implements the Port Forwarding Rule

The following sequence shows the effects of a port forwarding rule:

1. When you type the URL `www.example.com` in your browser, the browser sends a web page request message with the following destination information:
 - **Destination address.** The IP address of `www.example.com`, which is the address of your modem router.
 - **Destination port number.** 80, which is the standard port number for a web server process.
2. Your modem router receives the message and finds your port forwarding rule for incoming port 80 traffic.
3. The modem router changes the destination in the message to IP address 192.168.0.123 and sends the message to that computer.
4. Your web server at IP address 192.168.0.123 receives the request and sends a reply message to your modem router.
5. Your modem router performs Network Address Translation (NAT) on the source IP address, and sends the reply through the Internet to the WiFi-enabled computer or mobile device that sent the web page request.

Set Up Port Triggering

Port triggering is a dynamic extension of port forwarding that is useful in these cases:

- An application uses port forwarding to more than one local computer (but not simultaneously).
- An application opens incoming ports that are different from the outgoing port.

With port triggering, the modem router monitors traffic to the Internet from an outbound “trigger” port that you specify. For outbound traffic from that port, the modem router saves the IP address of the computer that sent the traffic. The modem router temporarily opens the incoming port or ports that you specify in your rule and forwards that incoming traffic to that destination.

Port forwarding creates a static mapping of a port number or range of ports to a single local computer. Port triggering can dynamically open ports to any computer when needed and close the ports when they are no longer needed.

Note: If you use applications such as multiplayer gaming, peer-to-peer connections, real-time communications such as instant messaging, or remote assistance (a feature in Windows XP), enable Universal Plug-N-Play (UPnP). See *Improve Network Connections With Universal Plug-N-Play* on page 69.

Add a Port Triggering Service

➤ **To add a port triggering service:**

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.

2. Type **http://routerlogin.net** or **http://192.168.0.1**.

A login window opens.

3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.

4. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.

The Port Forwarding/Port Triggering page displays.

5. Select the **Port Triggering** radio button.

6. Click the **Add Service** button.

7. In the **Service Name** field, type a descriptive service name.
8. In the **Service User** menu, select a user option:
 - **Any** (the default) allows any computer on the Internet to use this service.
 - **Single address** restricts the service to a particular computer.
9. Select the service type, either **TCP** or **UDP** or **TCP/UDP** (both).
If you are not sure, select **TCP/UDP**.
10. In the **Triggering Port** field, enter the number of the outbound traffic port that will open the inbound ports.
11. In the **Connection Type**, **Starting Port**, and **Ending Port** fields, enter the inbound port information.
12. Click the **Apply** button.

The service is now in the Portmap Table. You must enable port triggering before the modem router uses port triggering for the service that you added. For information about port triggering, see *Specify When to Use Port Triggering* on page 96.

Specify When to Use Port Triggering

➤ To specify when to use port triggering:

1. Launch a web browser from a WiFi-enabled computer or mobile device that is connected to the network.
2. Type **http://routerlogin.net** or **http://192.168.0.1**.
A login window opens.
3. Enter the modem router user name and password.

The user name is **admin**. The default password is **password**. The user name and password are case-sensitive.

The BASIC Home page displays.
4. Select **ADVANCED > Advanced Setup > Port Forwarding/Port Triggering**.
The Port Forwarding/Port Triggering page displays.

5. Select the **Port Triggering** radio button.

Port Forwarding / Port Triggering

Apply Cancel

Please select the service type.

☐ Port Forwarding

☒ Port Triggering

Port Triggering

☒ Never

☐ Always

Port Triggering Time-out(in minutes) 10

Port Triggering Portmap Table

#	Enable	Service Name	Service Type	Inbound Connection	Service User

+Add Service Edit Service Delete Service

6. Select a radio button to specify when you want to use port triggering:
- **Never.** The modem router does not use port triggering even if you specified port triggering settings.
 - **Always.** Always use port triggering.

7. In the **Port Triggering Timeout** field, enter a value up to 9999 minutes.

This value controls how long the inbound ports stay open when the modem router detects no activity. This value is required because the modem router cannot detect when the application terminates.

Application Example: Port Triggering for Internet Relay Chat

Some application servers, such as FTP and IRC servers, send replies to multiple port numbers. Using port triggering, you can tell the modem router to open more incoming ports when a particular outgoing port starts a session.

An example is Internet Relay Chat (IRC). Your computer connects to an IRC server at destination port 6667. The IRC server not only responds to your originating source port, but also sends an “identify” message to your computer on port 113. Using port triggering, you can tell the modem router, “When you initiate a session with destination port 6667, you must also allow incoming traffic on port 113 to reach the originating computer.” The following sequence shows the effects of this port triggering rule:

1. You open an IRC client program to start a chat session on your computer.
2. Your IRC client composes a request message to an IRC server using a destination port number of 6667, the standard port number for an IRC server process. Your computer then sends this request message to your modem router.
3. Your modem router creates an entry in its internal session table describing this communication session between your computer and the IRC server. Your modem router stores the original information, performs Network Address Translation (NAT) on the source address and port, and sends this request message through the Internet to the IRC server.

4. Noting your port triggering rule and observing the destination port number of 6667, your modem router creates another session entry to send any incoming port 113 traffic to your computer.
5. The IRC server sends a return message to your modem router using the NAT-assigned source port (for example, port 33333) as the destination port. The IRC server also sends an “identify” message to your modem router with destination port 113.
6. When your modem router receives the incoming message to destination port 33333, it checks its session table to see if a session is active for port number 33333. Finding an active session, the modem router restores the original address information replaced by NAT and sends this reply message to your computer.
7. When your modem router receives the incoming message to destination port 113, it checks its session table and finds an active session for port 113 associated with your computer. The modem router replaces the message’s destination IP address with your computer’s IP address and forwards the message to your computer.
8. When you finish your chat session, your modem router eventually senses a period of inactivity in the communications. The modem router then removes the session information from its session table, and incoming traffic is no longer accepted on port numbers 33333 or 113.

9 Troubleshooting

This chapter gives information about troubleshooting your modem router.

The chapter includes the following sections:

- *Use LEDs to Troubleshoot*
- *Cannot Log In to the Modem Router*
- *Troubleshoot the ISP Connection*
- *Troubleshoot a TCP/IP Network Using the Ping Utility*

Tip: NETGEAR provides helpful articles, documentation, and the latest software updates at support.netgear.com.

Use LEDs to Troubleshoot

The following table provides help when using the LEDs for troubleshooting.

Table 4. LED troubleshooting

LED Behavior	Action
All LEDs are off when the modem router is plugged in.	<ul style="list-style-type: none"> Make sure that the power cord is properly connected to your modem router and that the power adapter is properly connected to a functioning power outlet. Check that you are using the 12 VDC power adapter from NETGEAR for this product. If the error persists, a hardware problem is occurring. Contact technical support.
All LEDs stay on.	<ul style="list-style-type: none"> Clear the configuration of the modem router to its factory defaults. This operation sets the IP address of the modem router to 192.168.0.1. See Factory Default Settings on page 105. If the error persists, there is a hardware problem. Contact technical support.
LAN LED is off for a port with an Ethernet connection.	<ul style="list-style-type: none"> Make sure that the Ethernet cable connections are secure at the modem router and at the hub or computer. Make sure that power is turned on to the connected hub or computer. Be sure that you are using the correct cable.
Internet LED is off and the modem router is connected to the cable television cable.	<ul style="list-style-type: none"> Make sure that the coaxial cable connections are secure at the modem router and at the wall jack. Make sure that your cable service provider provisioned your cable Internet service. Your provider can verify that the signal quality is good enough for modem router service. Remove any excessive splitters from your cable line.

Cannot Log In to the Modem Router

If you cannot access the modem router from a computer on your local network, check the following:

- If you are using a WiFi connection, check to make sure that your computer or mobile device is connected to the correct WiFi network.
- If your computer is connected to the modem router with an Ethernet cable, check the connection.
- Make sure that your computer's IP address is on the same subnet as the modem router. If you are using the recommended addressing scheme, the address of your computer is in the range of 192.168.0.02 to 192.168.0.254.

Note: If the IP address of your computer is shown as 169.254.x.x:
Recent versions of Windows and Mac OS generate and assign an IP address when the computer cannot reach a DHCP server. These autogenerated addresses are in the range of 169.254.x.x. If your IP address is in this range, check the connection from the computer to the modem router and reboot your computer.

- If the IP address of your modem router changed and you do not know its current IP address, clear the configuration of the modem router to its factory defaults. This sets the IP address of the modem router to 192.168.0.1. For more information, see [Factory Default Settings](#) on page 105.
- Make sure Java, JavaScript, or ActiveX is enabled on your browser. If you are using Internet Explorer, click the **Refresh** button to make sure that the Java applet is loaded.
- Try quitting the browser and launching it again.
- Make sure that you are using the correct login information. The modem router user name **admin** is lowercase (Caps Lock is off). The default password is **password**.

If the modem router does not save changes that you made, do the following:

- When entering settings, make sure to click the **Apply** button before moving to another page, or your changes are lost.
- Click the **Refresh** or **Reload** button in the web browser. The changes might be saved, but the web browser might be caching the old configuration.

Troubleshoot the ISP Connection

When your modem router cannot access the Internet and your Internet LED is on, register the cable MAC address or device MAC address of your modem router with your cable service provider.

Additionally, the modem router might not be specified as the TCP/IP gateway for your computer. If your computer obtains its information from the modem router by DHCP, reboot the computer and verify the gateway address.

Troubleshoot a TCP/IP Network Using the Ping Utility

Most TCP/IP terminal devices and routers contain a ping utility that sends an echo request packet to the designated device. The device then responds with an echo reply. You can easily troubleshoot a TCP/IP network by using the ping utility in your computer or workstation.

Use Ping to Test the LAN Path to Your Gateway

You can use ping to verify that the LAN path to your modem router is set up correctly.

➤ **To ping the modem router from a computer running Windows 95 or later:**

1. From the Windows toolbar, click the **Start** button and select **Run**.
2. In the field that is provided, type **ping** and then the IP address of the modem router, as in this example:

ping 192.168.0.1

3. Click **OK**.

You see a message like the following:

Pinging <IP address> with 32 bytes of data

If the path is working, you see this message:

Reply from < IP address >: bytes=32 time=NN ms TTL=xxx

If the path is not working, you see this message:

Request timed out

If the path is not working correctly, you might be experiencing one of the following problems:

- Wrong physical connections.
 - Make sure that the LAN LED is lit. For more information, see [Use LEDs to Troubleshoot](#) on page 100.
 - Make sure that the corresponding link LEDs are on for your network interface card and the hub ports (if any) that are connected to your workstation and modem router.
- Wrong network configuration.
 - Verify that the Ethernet card driver software and TCP/IP software are both installed and configured on your computer or workstation.
 - Verify that the IP address for your modem router and your workstation are correct and that the addresses are on the same subnet.

Use Ping to Test the Path From a Windows Computer to a Remote Device

After verifying that the LAN path works correctly, test the path from the Windows computer to a remote device.

➤ **To test the path from a Windows computer to a remote device:**

1. From the Windows toolbar, click the **Start** button and select **Run**.

2. In the field that is provided, type **ping** and then the IP address of the remote device such as the DNS server of your ISP.

If the path is working, you see this message:

```
Reply from < IP address >: bytes=32 time=NN ms TTL=xxx
```

3. If you do not receive this reply, do the following:
 - Make sure that the Internet LED is lit.
 - If your ISP assigned a host name to your computer, enter that host name as the account name on the Internet Setup page.
 - Make sure that the IP address of your modem router is listed on your computer as the default gateway. If DHCP assigns the IP configuration of your computer, this information is not visible in the Network Control Panel of your computer. Verify that the IP address of the modem router is listed as the default gateway.
 - Make sure that the network address of your computer (the portion of the IP address specified by the netmask) is different from the network address of the remote device.

A Supplemental Information

A

This appendix includes the following sections.

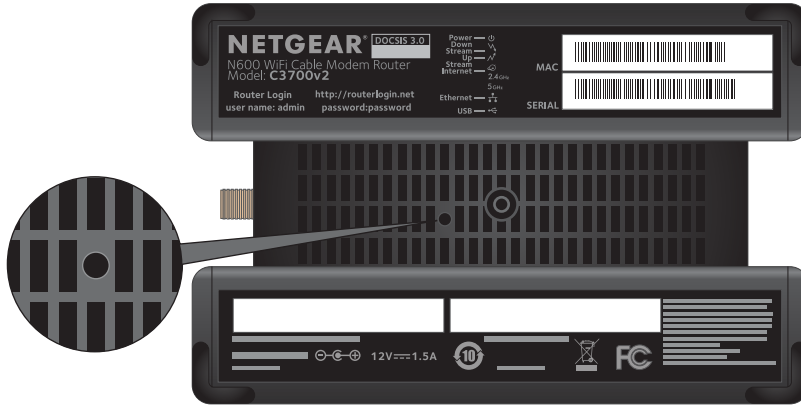
- *Factory Default Settings*
- *Technical Specifications*

Factory Default Settings

You can return the modem router to its factory default settings.

➤ **To restore the factory default settings:**

1. Locate the **Reset** button on the bottom of the modem router.



2. Use a paper clip or sharp object to press and hold the **Reset** button for more than seven seconds.

The modem router resets and returns to the factory settings shown in the following table.

Table 5. Factory Settings

Feature		Default Setting
Modem router login	User login URL	http://192.168.0.1
	User name and password (case-sensitive)	admin / password
Local network (LAN)	LAN IP	192.168.0.1
	Subnet mask	255.255.255.0
	DHCP server	Enabled
	DHCP starting IP address	192.168.0.2
	DHCP ending IP address	192.168.0.254
Firewall	Inbound communication from the Internet	Disabled (except traffic on port 80, the HTTP port)
	Outbound communication to the Internet	Enabled (all)
	Source MAC filtering	Disabled
Internet connection	WAN MAC address	Use default hardware address

Table 5. Factory Settings (continued)

Feature		Default Setting
WiFi	WiFi communication	Enabled
	SSID name	As shown on the modem router label
	Security	WPA/WPA2. The default WPA/WPA2 passphrase is on the modem router label.
	Broadcast SSID	Enabled
	Transmission speed	Auto ¹
	Country/region	United States in the US. Otherwise, varies by region
	RF channel	Auto
	Operating mode	a, n, g, and b
	Data rate	Best
	Output power	Full
	Access point	Enabled
	Authentication type	Open System
	Wireless Card Access list	All WiFi stations allowed

1. Maximum WiFi signal rate derived from IEEE Standard 802.11 specifications. Actual throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, may lower actual data throughput rate.

Technical Specifications

The following table describes the technical specifications for the modem router.

Table 6. Technical specifications

Feature	Description
Network protocol and standards compatibility	Data and routing protocols: TCP/IP, DHCP server and client, DNS relay, NAT (many-to-one), and TFTP client
Power adapter	<ul style="list-style-type: none"> North America: 120V, 60 Hz, input C3000v2 All regions (output): 12 VDC @ 1.5A output 18W maximum C3700v2 All regions (output) 12 VDC @ 2.5A output, 30W maximum
Physical specifications	<ul style="list-style-type: none"> Dimensions: 9.25 x 6.1 x 2.25 in. (235 x 155 x 57 mm) Weight: 0.95 lb (0.44 kg)
Environmental	<ul style="list-style-type: none"> Operating temperature: 32° to 113°F (0° to 45°C) Operating humidity: 90% maximum relative humidity, noncondensing Electromagnetic emissions: Meets requirements of: FCC Part 15 Class B.
Interface	<ul style="list-style-type: none"> Local: 10BASE-T, 100/1000BASE-Tx, RJ-45 C3000v2: 802.11 n/g/b C3700v2: 802.11 a/n/g/b Internet: DOCSIS 3.0. Downward compatible with DOCSIS 2.0, 1.1 and 1.0