

NETGEAR Nighthawk R7000 QoS Configuration and Best Practices Guide

Setting Up Your NETGEAR Nighthawk R7000 Router

1. Once the router has been powered on, navigate to <http://192.168.1.1>
2. Create a password and security questions, then click **next**.

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	<input type="password"/>
Confirm New Password	<input type="password"/>
Security Question #1*:	<div>Please select a question.<input type="button" value="v"/></div>
Answer*:	<input type="text"/>
Security Question #2*:	<div>Please select a question.<input type="button" value="v"/></div>
Answer*:	<input type="text"/>

*=required information

Next

3. Save the router information, then click **next**.

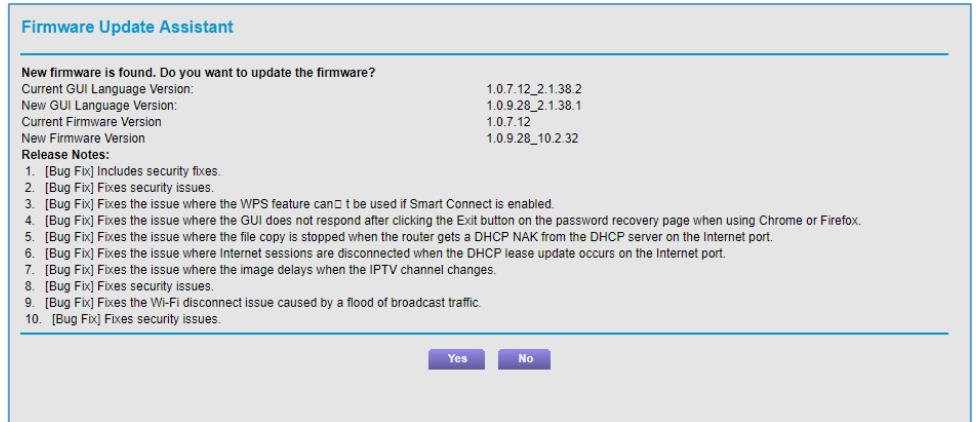
Congratulations!

You are successfully connected to the Internet.

2.4G Wireless Settings:	
2.4GHz Wireless Network Name (SSID):	NETGEAR00
Wireless Network Key (Password)	windytable566
5G Wireless Settings:	
5GHz Wireless Network Name (SSID):	NETGEAR00-5G
Wireless Network Key (Password)	windytable566
Router Admin Settings:	
Admin User Name:	admin
New Admin Password:	default

Print this **Next**

4. Select **Yes** to update the router's firmware.



Firmware Update Assistant

New firmware is found. Do you want to update the firmware?

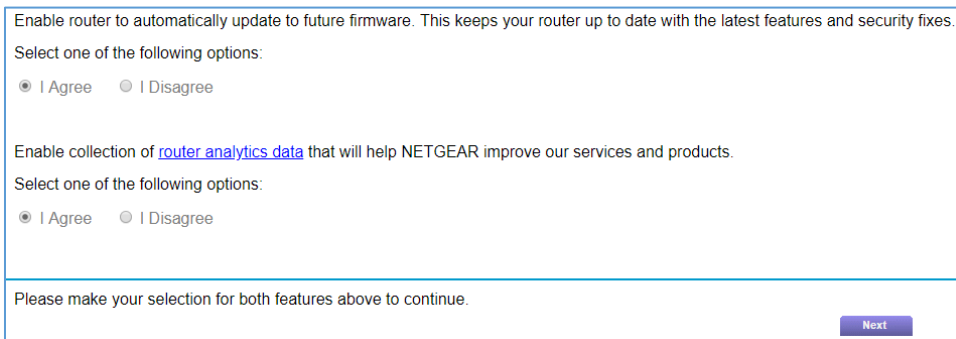
Current GUI Language Version:	1.0.7.12_2.1.38.2
New GUI Language Version:	1.0.9.28_2.1.38.1
Current Firmware Version:	1.0.7.12
New Firmware Version:	1.0.9.28_10.2.32

Release Notes:

1. [Bug Fix] Includes security fixes.
2. [Bug Fix] Fixes security issues.
3. [Bug Fix] Fixes the issue where the WPS feature can't be used if Smart Connect is enabled.
4. [Bug Fix] Fixes the issue where the GUI does not respond after clicking the Exit button on the password recovery page when using Chrome or Firefox.
5. [Bug Fix] Fixes the issue where the file copy is stopped when the router gets a DHCP NAK from the DHCP server on the Internet port.
6. [Bug Fix] Fixes the issue where Internet sessions are disconnected when the DHCP lease update occurs on the Internet port.
7. [Bug Fix] Fixes the issue where the image delays when the IPTV channel changes.
8. [Bug Fix] Fixes security issues.
9. [Bug Fix] Fixes the Wi-Fi disconnect issue caused by a flood of broadcast traffic.
10. [Bug Fix] Fixes security issues.

☒ Yes ☐ No

5. Click **I agree**, then **Next** to keep your router up-to-date.



Enable router to automatically update to future firmware. This keeps your router up to date with the latest features and security fixes.

Select one of the following options:

☒ I Agree ☐ I Disagree

Enable collection of [router analytics data](#) that will help NETGEAR improve our services and products.

Select one of the following options:

☒ I Agree ☐ I Disagree

Please make your selection for both features above to continue.

Configuring QoS for VoIP Phones

1. Log into <http://192.168.1.1> using the credentials you created at step 1.

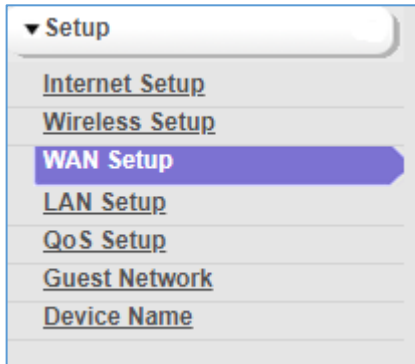


Nighthawk R7000

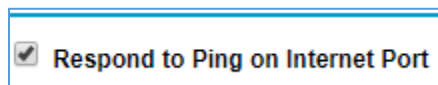
BASIC **ADVANCED**

2. Click the **Advanced** tab.

3. Click **Setup**, then **WAN Setup**



4. Click the box next to **Respond to Ping on Internet Port**



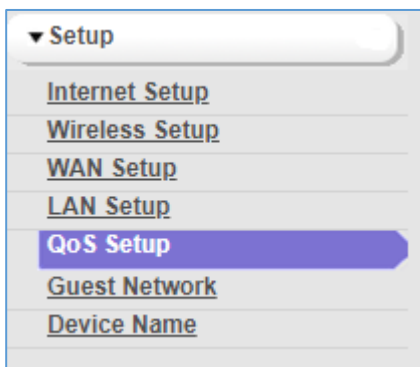
5. Select **Open** for **NAT Filtering**, then click the box next to **Disable SIP ALG**



6. Click **Apply**



7. Click **QoS Setup**




8. Click the box next to **Enabled QoS** ☒ **Enable QoS**



9. Click the **speed test** button to automatically adjust QoS

☒ Let Speedtest detect my Internet bandwidth
(Please make sure no device is accessing the Internet while running the test)

[Speed Test](#)

 **SPEEDTEST**
by OOKLA
[Privacy Policy](#)

Latest test result: Thu Jun 7 04:41:02 2018

 **DOWNLOAD**  **UPLOAD**

311.24Mbps 22.44Mbps

10. Click **Apply**

[Apply](#) [Cancel](#)

11. Click the link: **Click here to see bandwidth utilization by device and application.**

☒ **Automatically update performance optimization database** [Update Now](#)

Current Performance Optimization Database on Router

Version: v1.170.0.0.11

Release Date: 2017/07/23

[Click here to see bandwidth utilization by device and application](#)

12. Click the checkbox next to your Clarity phone.

Attached Devices						
Edit		DOWNLOAD SPEED 348.07 Mbps		UPLOAD SPEED 22.72 Mbps		Go to Access Control to allow or block devices.
		Access Control: Turned Off		Refresh		
	Priority	Connection Type	Device Name	Internet Download Speed by Device	Internet Upload Speed by Device	
<input type="checkbox"/>	High	Wired	DESKTOP-48PNV7M 192.168.1.2	0.04 Mbps	0.08 Mbps	
<input checked="" type="checkbox"/>	Normal	Wired	Polycm_0004f26a9d3c 192.168.1.3	0.00 Mbps	0.00 Mbps	

13. Click **Edit**.

14. Set Priority to **Highest**, set Device Type to **VoIP**.

15. Click **Apply**.

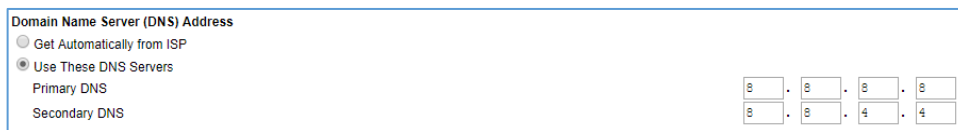


16. Repeat steps 16-20 for all Clarity phones

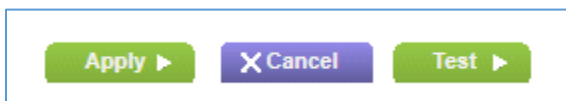
17. Click **Internet Setup**



18. Under **Domain Name Server (DNS) Address** click **Use These DNS Servers**. Primary DNS will be 8.8.8.8, Secondary DNS will be 8.8.4.4.



19. Click **Apply**.



20. Setup is now complete.