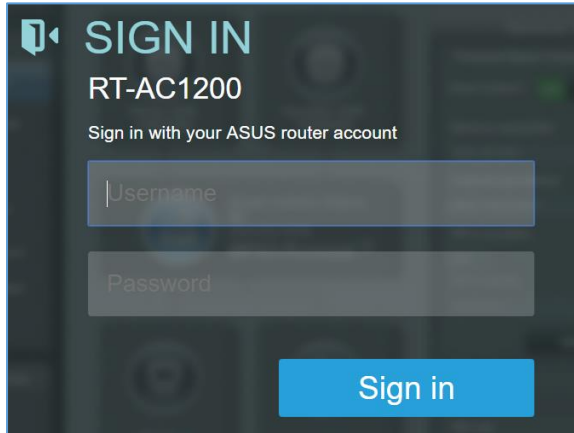


ASUS RT-AC1200 QoS Configuration and Best Practices Guide

Setting Up Your ASUS RT-AC1200 Router

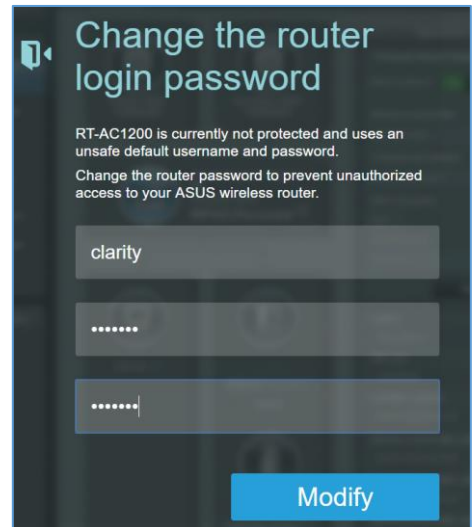
1. Once the router has been powered on, open a browser and navigate to <http://router.asus.com>

- a. Username: admin
- b. password: admin



The image shows the 'SIGN IN' screen for the ASUS RT-AC1200 router. It features a dark background with a light blue header. The text 'SIGN IN' is in large, bold, light blue letters, followed by 'RT-AC1200' in a smaller, bold, light blue font. Below this, it says 'Sign in with your ASUS router account'. There are two input fields: 'Username' and 'Password', both with light blue borders and placeholder text. A blue 'Sign in' button is at the bottom right.

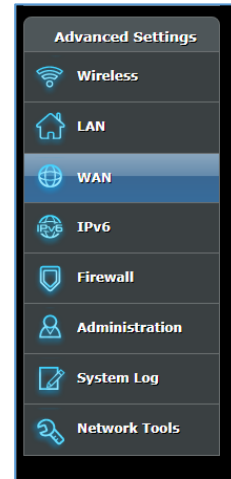
2. Asus will prompt you to change the default username and password. Save this for your records. You will need this information if you want to log back into the router in the future.



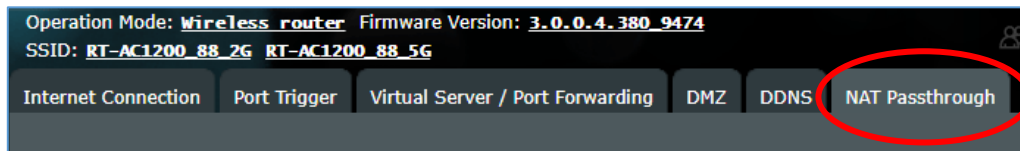
The image shows the 'Change the router login password' screen for the ASUS RT-AC1200 router. It features a dark background with a light blue header. The text 'Change the router login password' is in large, bold, light blue letters. Below this, it says 'RT-AC1200 is currently not protected and uses an unsafe default username and password. Change the router password to prevent unauthorized access to your ASUS wireless router.' There are three input fields: 'clarity' (with the text 'clarity' entered), a field with dots, and another field with dots. A blue 'Modify' button is at the bottom right.

Configuring QoS for VoIP Phones

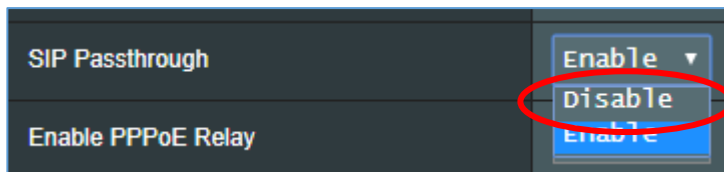
1. On the left-hand portion of the page, click on **WAN**



2. Toward the top of the page, click **NAT Passthrough**

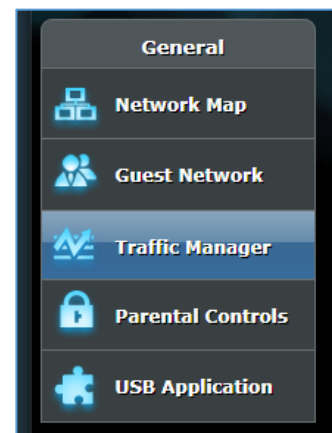


3. Click the dropdown menu next to **SIP Passthrough** and select **Disable**



4. On the bottom of the page, click **Apply**

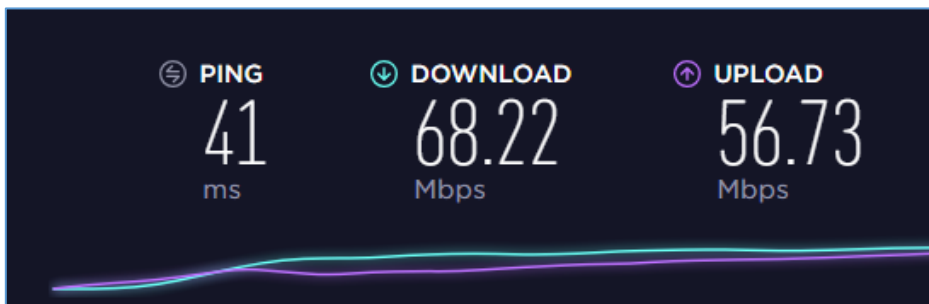
5. On the left-hand portion of the page select **Traffic Manager**.



6. Click the switch next to **Enable QoS** to turn it **on**.

Enable QoS	☒ ON	
QoS Type	☐ Traditional QoS ☐ Bandwidth Limiter	
Upload Bandwidth	0 Mb/s	• Get the bandwidth information from ISP or go to Speedtest to check bandwidth • The default is 0, which means unlimited bandwidth
Download Bandwidth	0 Mb/s	

7. In a new browser window or tab, go to <http://speedtest.net>

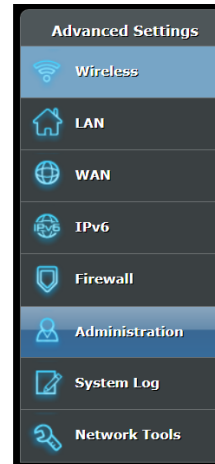


8. Click **Go**
9. After the test is done, you'll have your bandwidth in Mbps. Save these results and go back to the router user interface
10. Copy the results of the speedtest into "Upload Bandwidth" and "Download Bandwidth"

Enable QoS	☒ ON	
QoS Type	☐ Traditional QoS ☐ Bandwidth Limiter	
Upload Bandwidth	56.73 Mb/s	• Get the bandwidth information from ISP or go to Speedtest to check bandwidth • The default is 0, which means unlimited bandwidth
Download Bandwidth	68.22 Mb/s	

11. Click **Apply**
12. Log back into <http://router.asus.com> and use your newly created username and password.

13. On the left side menu, click **Administration**



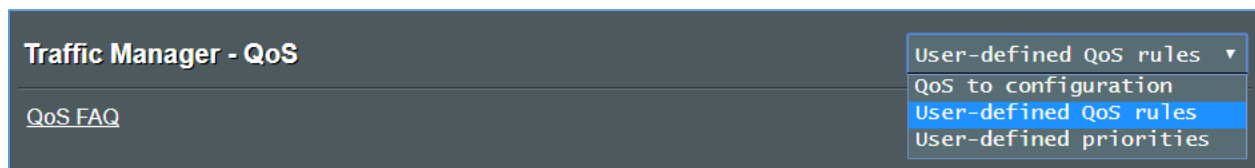
14. Click **Check** to the right of the Firmware Version

Firmware Version	
Product ID	RT-AC1200
Firmware Version	3.0.0.4.380_9474-g92a9bfd Check ☐ Get Beta Firmware
New Firmware File	Choose File No file chosen Upload

15. Click **Firmware Upgrade**

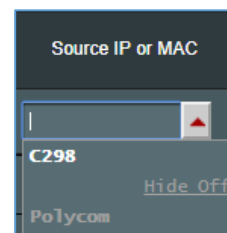
16. Log back into the router using your recently created credentials at <http://router.asus.com>

17. Click on **Traffic Manager**



18. Click the dropdown menu toward the top right of the page and click **User-defined QoS Rules**

19. Click the dropdown next to **Source IP or MAC** field



20. Select your VoIP phone's LAN IP or host name (ie Polycom)

Traffic Manager - QoS User-defined QoS rules

[QoS FAQ](#)

User Specify Rule List (Max Limit : 32)

Service Name	Source IP or MAC	Destination Port	Protocol	Transferred	Priority	Add / Delete
Please select			TCP/UDP	~ KB	High	+
Web Surf		80	tcp	0~512	Medium	-
HTTPS		443	tcp	0~512	Medium	-
File Transfer		80	tcp	512~	Low	-
Polycom	64:16:7F:04:1C:A8	5060,5061,2...	tcp/udp		Highest	-

Apply

21. In the next field (**Destination Port**) enter in **5060,5061,20000:40000**

22. Set **Priority** to **Highest**

Priority

Highest

23. Toward the right in the same row, click the add icon,

Add / Delete

+

then click **Apply**

24. Click **Firewall** on the left side menu

25. Click **Yes** next to **Respond ICMP Echo (ping) Request from WAN**, then click **Apply**

Advanced Settings

- Wireless
- LAN
- WAN
- IPv6
- Firewall**
- Administration
- System Log
- Network Tools

Respond ICMP Echo (ping) Request from WAN

☒ Yes ☐ No

Netgear

To Internet Service Provider (ISP):



1

High Speed Business Class Internet from ISP (Cable, Fiber). Satellite and LTE is NOT recommended or supported. Stand alone modem provided by customer or Internet Service Provider (ISP)



2

Router shipped pre-configured from Clarity, with Quality of Service and WiFi. Supports up to 4 Ethernet connections

* OPTIONAL Ethernet switch provides additional Ethernet connections

3

Phone handsets shipped pre-configured from Clarity. Connect to network with computer "Ethernet" cables (see inset at right)



* OPTIONAL Jabra Wireless Headset



Ethernet Cable



* Customer responsible for Ethernet cabling

Checklist

- ✓ High Speed Internet
- ✓ Recommended Single-Port Stand-Alone Modem
- ✓ Ethernet Cabling from Router (or optional switch) to Phones

4



Computers may be plugged into the PC port on the back of the phone