



## Linksys E1200 configuration guide

**RingCentral**® certified router

## Configuring QoS on the Linksys E1200 to Prioritize VoIP Traffic (MAC Method)

**Brand:** Linksys  
**Model:** E1200  
**Hardware Version:** E1200  
**Firmware Version:** 2.0.04 build 1

1. Log in to the router. The default IP address is **192.168.1.1**. The default username is "**admin**". The default password is "**admin**".
2. Click on "**Applications & Gaming**" tab.
3. Click on "**QoS**".
4. Select the radial button "**Enabled**" next to the field labeled "**Internet Access Priority**".
5. In the field labeled "**Upstream Bandwidth**", select "**Manual**" from the drop-down menu and enter your current upload speed. (If unsure of your current upload speed, please run a speed test at <http://www.ringcentral.com/support/capacity.html>.)



6. Select “**MAC Address**” from the drop-down menu labeled “**Category**”.

Internet Access Priority

Upstream Bandwidth

Category

Enabled  Disabled

Manual 1800 Kbps

Applications

Applications

Online Games

**MAC Address**

Voice Device

MSN Messenger

Medium (Recommended)

Apply

7. You will need the MAC address for each IP device to continue. In the field labeled “**Enter a Name**”, enter a unique name for the device for which you will prioritize traffic.

Internet Access Priority

Upstream Bandwidth

Category

Enabled  Disabled

Manual 1800 Kbps

MAC Address My Current PC's MAC Address: A4:BA:DB:DC:24:30

Enter a Name	Cisco 525G2 Wired
MAC Address	00:00:00:00:00:00
Priority	Medium (Recommended)

Apply

8. In the field labeled “**MAC Address**” enter the MAC address for the device.

Internet Access Priority

Upstream Bandwidth

Category

Enabled  Disabled

Manual 1800 Kbps

MAC Address My Current PC's MAC Address: A4:BA:DB:DC:24:30

Enter a Name	Cisco 525G2 Wired
MAC Address	70:81:05:B8:30:34
Priority	Medium (Recommended)

Apply



11. Repeat steps 6-10 until you have entered all of the IP phones. When all have been entered and you see them in the **“Summary”** section, click on **“Save Settings”**.
12. Power cycle/reboot the router before proceeding.

**Summary**

<u>Priority</u>	<u>Name</u>	<u>Information</u>		
High	Cisco 525G2 Wired	MAC 70:81:05:B8:30:34	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
High	Cisco 525G2 Wireless	MAC 70:81:05:B8:1B:4E	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
High	polycom	MAC 00:04:F2:40:83:24	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
High	pc softphone	MAC A4:DB:DB:DC:24:30	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

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## Configuring QoS on the Linksys E1200 to Prioritize VoIP Traffic (Port Method)

1. Log in to the router. The default IP address is **192.168.1.1**. The default username is "**admin**". The default password is "**admin**".
2. Click on "**Applications & Gaming**" tab.
3. Click on "**QoS**".
4. Select the radial button "**Enabled**" next to the field labeled "**Internet Access Priority**".
5. In the field labeled "**Upstream Bandwidth**", select "**Manual**" from the drop-down menu and enter your current upload speed. (If unsure of your current upload speed, please run a speed test at <http://www.ringcentral.com/support/capacity.html>.)



- In the **“Category”** section, select **“Applications”** from the drop-down menu.
- In the field labeled **“Applications”**, select **“Add a New Application”** from the drop-down menu.
- Enter a unique name in the **“Enter a Name”** field. Enter the following port ranges and select **“UDP”** from the drop-down menu to the right of each port range field and set the priority to **“High”** on the drop-down menu: **5060-5090**, **8000-8200**, **16384-16482**.

The screenshot shows the 'Internet Access Priority' configuration page. The 'Upstream Bandwidth' is set to 'Manual' at '1800 Kbps'. The 'Category' dropdown is set to 'Applications', indicated by a red circle with the number 6. The 'Applications' dropdown menu is open, showing a list of applications: MSN Messenger, Skype, Yahoo Messenger, Windows Live Messenger, AIM, Windows Media Player, RealPlayer, QuickTime, iTunes, Yahoo Music Jukebox, and Rhapsody. At the bottom of the list, the option 'Add a New Application' is highlighted in blue, with a red circle and the number 7 pointing to it.

The screenshot shows the 'Internet Access Priority' configuration page with the 'Add a New Application' form filled out. The 'Upstream Bandwidth' is 'Manual' at '1800 Kbps'. The 'Category' is 'Applications'. The 'Applications' dropdown is set to 'Add a New Application'. The 'Enter a Name' field contains 'RingCentral', with a red circle and the number 8a pointing to it. The 'Port Range' section has three rows: the first row has '5060' to '5090' and 'UDP' (with a red circle and 8b pointing to the 'UDP' dropdown); the second row has '(Optional) 8000' to '8200' and 'UDP' (with a red circle and 8b pointing to the 'UDP' dropdown); the third row has '(Optional) 16384' to '16482' and 'UDP'. The 'Priority' dropdown is set to 'High', with a red circle and the number 8c pointing to it. An 'Apply' button is at the bottom.

9. Click **“Apply”**. You will see your changes in the **“Summary”** section.

Internet Access Priority

Enabled  Disabled

Manual  Kbps

Applications

<b>Applications</b>	Add a New Application <input type="button" value=""/>		
<b>Enter a Name</b>	<input type="text" value="RingCentral"/>		
<b>Port Range</b>	<input type="text" value="5060"/> to <input type="text" value="5090"/>	<input type="text" value="UDP"/>	<input type="button" value=""/>
	(Optional) <input type="text" value="8000"/> to <input type="text" value="8200"/>	<input type="text" value="UDP"/>	<input type="button" value=""/>
	(Optional) <input type="text" value="16384"/> to <input type="text" value="16482"/>	<input type="text" value="UDP"/>	<input type="button" value=""/>
<b>Priority</b>	<input type="text" value="High"/>		

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Priority	Name	Information		
High	RingCentral	Port 5060 - 5090 8000 - 8200 16384 - 16482	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

10. Click **“Save Settings”**.

11. Power cycle/reboot the router before proceeding.

Summary

Priority	Name	Information		
High	RingCentral	Port 5060 - 5090 8000 - 8200 16384 - 16482	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

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