

MAX Communication Server
Release 7.5

Quality of Service
Configuration Guide

June 11, 2015

This document describes how to add QoS tags for MaxCS RTP packets. These procedures have been validated on MaxCS Release 7.5.

Configure the MaxCS Server

1. Open the Local Group Policy Editor on the MaxCS server: In Windows, click **Start**. In the Search box, enter **gpedit.msc** and press **Enter**.
2. Open MMC: In Windows, click **Start**. In the Search box, enter **mmc** and press **Enter**.
3. On the *File* menu, click **Add/Remove Snap-in**. In the dialog box, click **Group Policy Object Editor** and click **Add**.

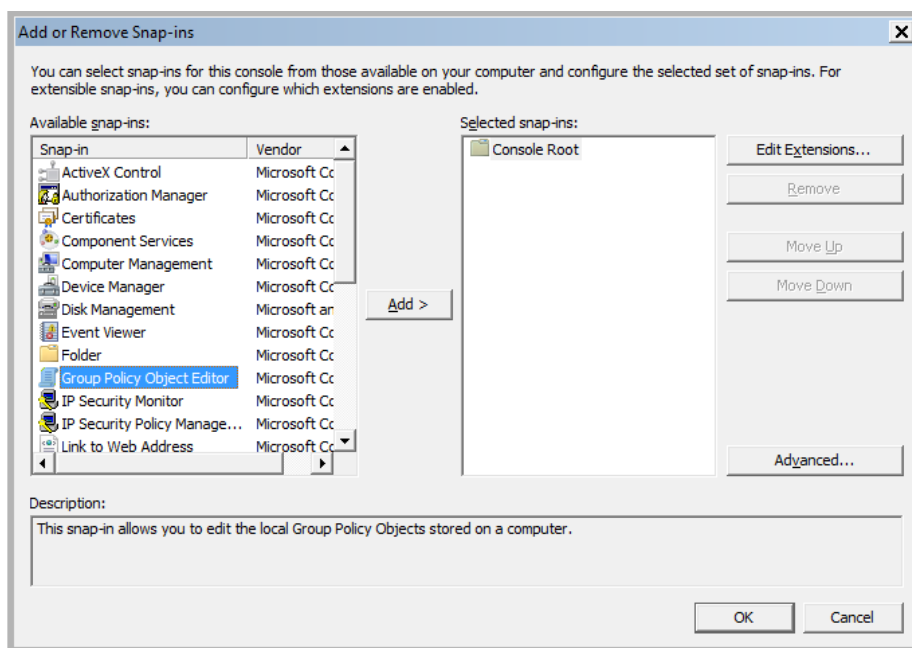


Figure 1: The Add or Remove Snap-ins dialog box

4. In the next dialog box, click **Browse**.
5. You can click either **This computer** to edit the Local Group Policy object, or click **Users** to edit Administrator, Non-Administrator, or per-user Local Group Policy objects.
6. Click **Ok**. Click **Finish**.
7. Switch back to the Local Group Policy Editor. In the left pane, expand **Local Computer Policy > Computer Configuration > Windows Settings**.
8. Right-click **Policy-based QoS** and select **Create new policy**.

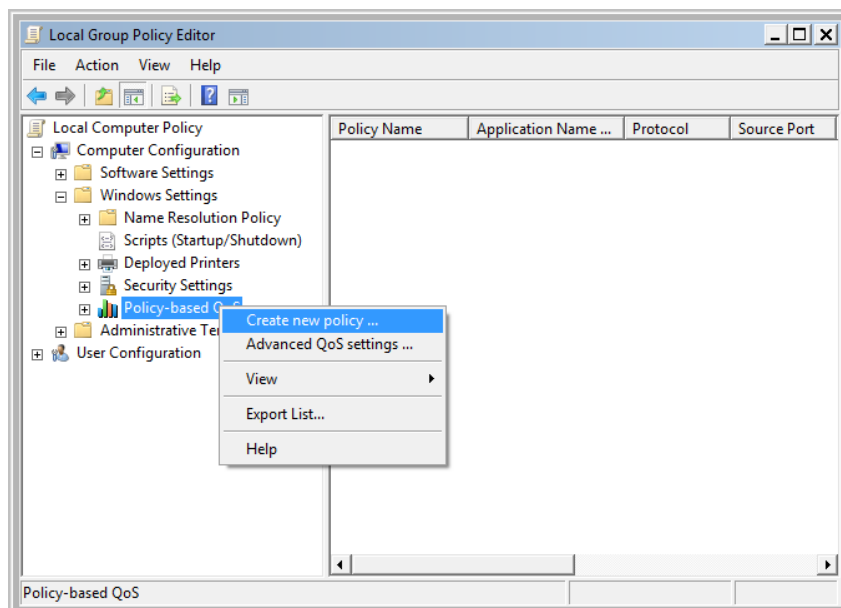


Figure 2: The Local Group Policy Editor window

9. In the new window, enter a policy name and specify a DSCP value from 0-63. Click **Next**.

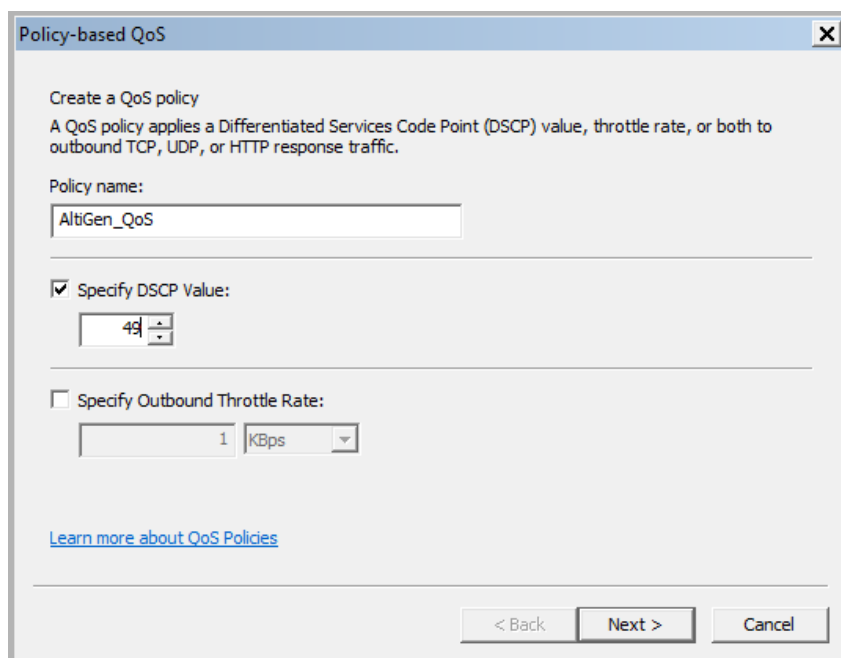
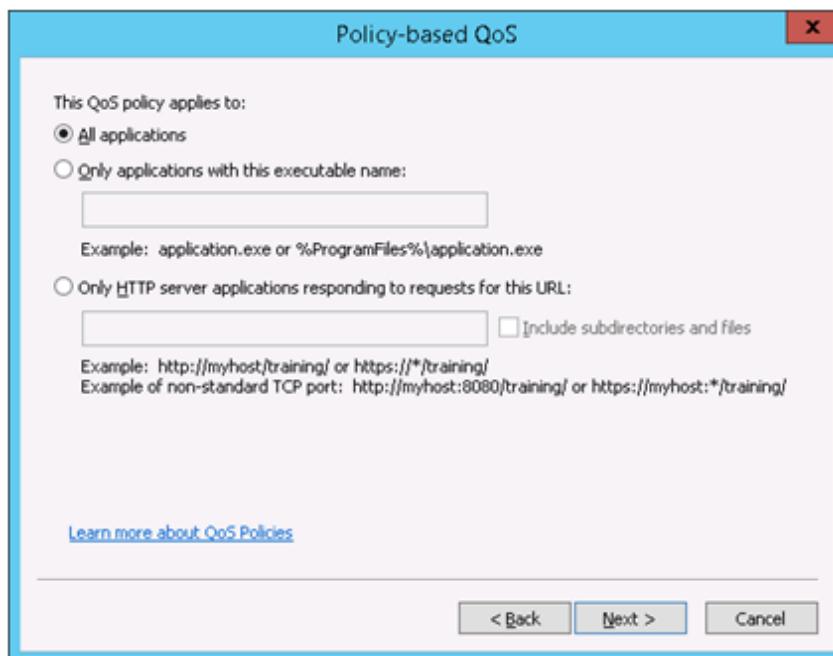


Figure 3: Enter a name for the policy and a DSCP value

10. Select **All applications** and then click **Next**.

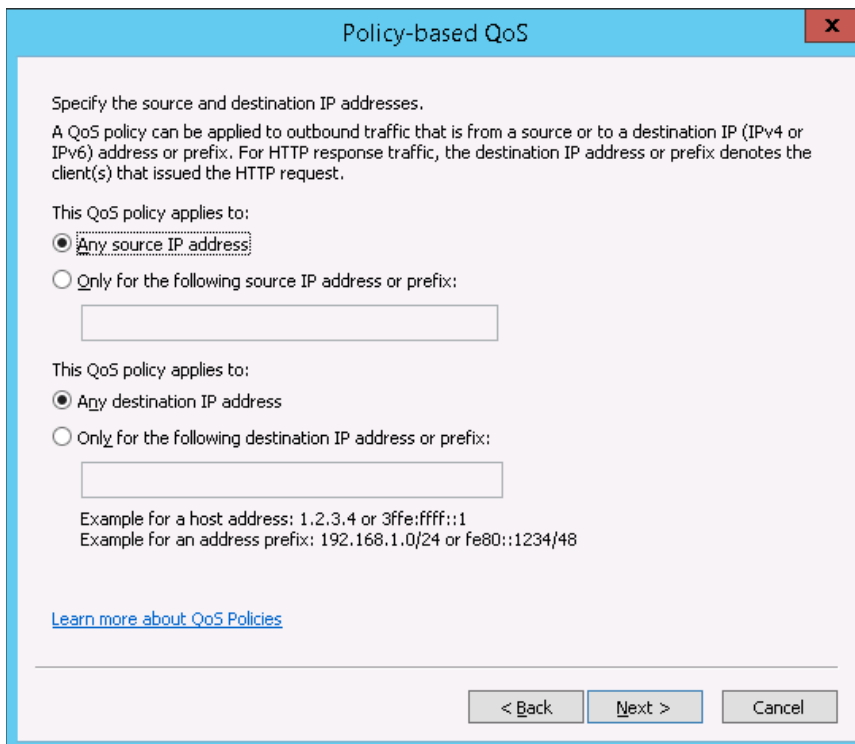


The dialog box is titled "Policy-based QoS". It contains the following text and controls:

- "This QoS policy applies to:"
- ☒ **All applications**
- ☐ Only applications with this executable name: [text box]
- Example: application.exe or %ProgramFiles%\application.exe
- ☐ Only HTTP server applications responding to requests for this URL: [text box] ☐ Include subdirectories and files
- Example: http://myhost/training/ or https://*/training/
- Example of non-standard TCP port: http://myhost:8080/training/ or https://myhost:*/training/
- [Learn more about QoS Policies](#)
- Buttons: < Back, Next >, Cancel

Figure 4: Specify the policy applies to all applications

11. Select **Any source IP address** and **Any destination IP address** in this panel and click **Next**.



The dialog box is titled "Policy-based QoS". It contains the following text and controls:

- "Specify the source and destination IP addresses."
- "A QoS policy can be applied to outbound traffic that is from a source or to a destination IP (IPv4 or IPv6) address or prefix. For HTTP response traffic, the destination IP address or prefix denotes the client(s) that issued the HTTP request."
- "This QoS policy applies to:"
- ☒ **Any source IP address**
- ☐ Only for the following source IP address or prefix: [text box]
- "This QoS policy applies to:"
- ☒ **Any destination IP address**
- ☐ Only for the following destination IP address or prefix: [text box]
- Example for a host address: 1.2.3.4 or 3ffe:ffff::1
- Example for an address prefix: 192.168.1.0/24 or fe80::1234/48
- [Learn more about QoS Policies](#)
- Buttons: < Back, Next >, Cancel

Figure 5: Specify source and destination IP addresses

12. Open MaxCS Administrator. Obtain the port range (in the *Local Ports* column) in the **Current Resource Statistics** window.

Current Resource Statistics						
Refresh Interval						
Gateway ID	G.711 only resources		G.711 / G.722 / G.723 / G.729 Resources			
	Total	Active G.711	Total	Active G.711	Active G.722	Active G.723
00	200	0	0	0	0	0
< >						
Packet ...	JB Packet loss	Total Packet los...	Max Packet loss...	Jitter	Local Ports	Remote IP
-	-	-	-	-	49664/5	-
-	-	-	-	-	49666/7	-
-	-	-	-	-	49668/9	-
-	-	-	-	-	49670/1	-
-	-	-	-	-	49672/3	-
-	-	-	-	-	49674/5	-
-	-	-	-	-	49676/7	-
-	-	-	-	-	49678/9	-
-	-	-	-	-	49680/1	-
-	-	-	-	-	49682/3	-
-	-	-	-	-	49684/5	-
-	-	-	-	-	49686/7	-
-	-	-	-	-	49688/9	-
-	-	-	-	-	49690/1	-
-	-	-	-	-	49692/3	-
< >						
Gateway ID	Meetings conference...	Member Count				
00	00:00	00				
00	00:01	00				
00	00:02	00				
00	00:03	00				
00	00:04	00				
00	00:05	00				
00	00:06	00				

Figure 6: MaxCS Administrator Current Resource Statistics

13. Switch back to the QoS policy window.

- A. Select **UDP** for the protocol.
- B. Select **From this source port number or range** and enter the port range from step 12.
- C. Select **To any destination port**.
- D. Click **Finish**.

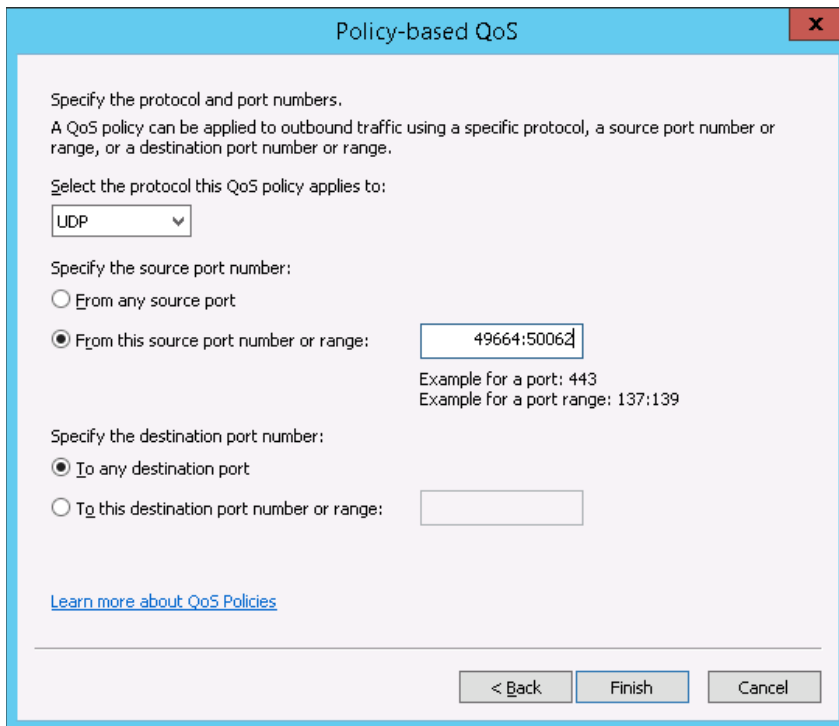


Figure 7: Set QoS options

Configure Each MaxAgent Client System

Repeat the steps listed in the previous section on each MaxAgent client system: add the policy with the same steps, but use port number 30000.

Notes

If you had a Windows client machine on which you are pushing Policy Based QoS, and you noticed in a subsequent network trace that the DSCP value is 0x00, perform these steps:

1. If you need to make DSCP values to take effect on the adapter which does not have Domain access, you need to add the following registry on the system:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\QoS

Type: REG_SZ

Name: Do not use NLA

Value: 1

Create the key "QoS" if it does not exist.

After you create the QoS registry key, reboot the computer.

2. If step 1 does not work, create an additional registry entry:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\Parameters]
"DisableUserTOSSetting"=dword:00000000
```

Reboot the server and check the behavior.

If the system belongs to a domain, log in as a domain user; logging in as the local administrator or a user will not work.