Configuring Quality of Services

This chapter contains the following sections:

About Quality of Service Policies

You use the quality of service (QoS) feature to provide the most desirable flow of traffic through a network. QoS allows you to classify the network traffic and prioritize the traffic flow, which helps to avoid traffic congestion in a network. The control of traffic is based on the fields in the packets that flow through the system.

In Cisco UCS Director, you can configure QoS policy on the Cisco Nexus 9300 and 9500 Series switches.

Configuring a QoS Policy

Step 1 Choose **Physical** > **Network**.

Step 2 On the **Network** page, choose the pod.

Step 3 Select the network device to be configured.

Step 4 From the **More Actions** drop-down list, choose **Configure N9K QOS**.

Step 5 In the **N9k QOS Configuration** screen, complete the required fields, including the following:

Name	Description
Integrate with UCS QOS Policy check box	Check the check box to integrate the QoS policy that is defined for the Cisco UCS account with the device. When you are checking this check box, the **UCS Account Name** drop-down field appears. Choose the QoS policy of the UCS account that you want to integrate with the device.

Name	Description
Configure Platinum Class check box	Check the check box to configure the parameters for the Platinum class and apply the class to the device. To configure the parameters for the Platinum class, complete the following fields: • **Platinum Class ACL Name** drop-down list—Choose the access control list (ACL) name to match packets against when you are configuring a traffic class. • **Platinum Class QOS Group** drop-down list—(Optional) Choose the QoS group value to match packets against when you are configuring a traffic class. Values are from 0 to 3. • **Platinum Class COS** drop-down list—(Optional) Choose the class of service (CoS) value to match packets against when you are classifying packets into this class. Values are from 0 to 7. • **Platinum Class MTU** field—The maximum transmission unit (MTU) value for the class.
Configure Gold Class check box	Check the check box to configure the parameters for the Gold class and apply the class to the device. To configure the parameters for the Gold class, complete the following fields: • **Gold Class ACL Name** drop-down list—Choose the ACL name to match packets against when you are configuring a traffic class. • **Gold Class QOS Group** drop-down list—(Optional) Choose the QoS group value to match packets against when you are configuring a traffic class. Values are from 0 to 3. • **Gold Class BW Percentage** drop-down list—Choose the guaranteed percentage of interface bandwidth that is allocated to this class. • **Gold Class COS** drop-down list—(Optional) Choose the CoS value to match packets against when you are classifying packets into this class. Values are from 0 to 7. • **Gold Class MTU** field—The MTU value for the class.

Name	Description
Configure Silver Class check box	Check the check box to configure the parameters for the Silver class and apply the class to the device. To configure the parameters for the Silver class, complete the following fields: • **Silver Class ACL Name** drop-down list—Choose the ACL name to match packets against when you are configuring a traffic class. • **Silver Class QOS Group** drop-down list—(Optional) Choose the QoS group value to match packets against when you are configuring a traffic class. Values are from 0 to 3. • **Silver Class BW Percentage** drop-down list—Choose the guaranteed percentage of interface bandwidth allocated to this class. • **Silver Class COS** drop-down list—(Optional) Choose the CoS value to match packets against when you are classifying packets into this class. Values are from 0 to 7. • **Silver Class MTU** field—The MTU value for the class.
Configure Default Class check box	Check the check box to configure the parameters for the Default class and apply the class to the device. To configure the parameters for the Default class, complete the following field: • **Default Class BW Percentage** drop-down list—Choose the guaranteed percentage of interface bandwidth that is allocated to this class.
Copy Running configuration to Startup configuration check box	Check the check box to copy the running configuration to the startup configuration.
Request Approval check box	Check the check box to request for approval to deliver commands to the device.

Step 6 Click **Submit**.

Deleting a QoS Policy

Step 1 Choose **Physical** > **Network**.

Step 2 On the **Network** page, choose the pod.

Step 3 Select the network device to be configured.

Step 4 From the **More Actions** drop-down list, choose **Delete N9K QOS**.

Step 5 In the **N9k QOS Deletion** dialog box, uncheck the check box to remove the corresponding class configuration from the QoS policy.

Step 6 Uncheck the **Copy Running configuration to Startup configuration** check box to avoid copying the running configuration to the startup configuration.

Step 7 Uncheck the **Request Approval** check box to deliver commands to the device without approval.

Step 8   Click **Submit**.