Quality of Service features

Quality of Service (QoS) is a set of networking tools and mechanisms designed to manage network traffic and ensure predictable performance by classifying, marking, policing, and prioritizing specific data flows to avoid congestion.

Starting with Cisco NX-OS Release 10.6(1s), you can configure these QoS features on the Cisco N9324C-SE1U, Cisco N9348Y2C6D-SE1U switches.

- Queuing and Scheduling
- QoS statistics

QoS Queuing and Scheduling

QoS Queuing and Scheduling is a two-part process where **Queuing** first orders packets into different traffic classes, and **Scheduling** then methodically controls the output of those packets based on priority to ensure a consistent and efficient flow of network traffic.

For information on Queuing and Scheduling, see Configure Queuing and Scheduling.

QoS statistics

QoS statistics are a collection of performance counters, enabled by default on a network device, used to monitor and display the behavior and effectiveness of applied Quality of Service policies.

For information on QoS statistics, see Monitoring the Statistics.

QoS guidelines

This section outlines feature support, guidelines, and limitations for QoS functionalities on Cisco N9324C-SE1U, Cisco N9348Y2C6D-SE1U switches.

Guidelines and Limitations for Queuing and Scheduling

Table 1: Supported features and releases

Features	Release
Queuing and Scheduling	10.6(1s)
QoS statistics	10.6(1s)

Supported or unsupported Queuing and Scheduling features

Supported features:

- Eight queues - SPAN and CPU Queues that are overloaded with eight user queues are supported.

- SP and DWRR are supported. However, the shaper and DWRR accuracy will have a 5% variance.

- QoS statistics are supported.

- Maximum shaper and static limit are supported.

Unsupported features:

- Micro-Burst monitoring is not supported.

- Link Level Flow Control (LLFC) is not supported.

- Dynamic queue-limit is not supported.

- Multicast queuing statistics is not supported.

QoS statistics limitation

On the Cisco N9324C-SE1U, Cisco N9348Y2C6D-SE1U switches, the **show queuing** command operates independently of the **qos statistics** configuration.

For information on QoS statistics, see Monitoring the Statistics.