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Quality of Service

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This article outlines the supported Quality of Service (QoS) features, their functionalities, and any associated limitations for the Cisco N9324C-SE1U and Cisco N9348Y2C6D-SE1U smart switches.

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](#).

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 Classification

QoS Classification is the process of separating packets into traffic classes to apply specific actions such as policing or marking.

For information on QoS classification, see [Configure QoS Classification](#).

QoS classification guidelines

- System QoS supports DSCP matching for IPv4/IPv6.
- When a system QoS policy is configured, the default qos-map profile table entries are updated to match the policy settings.
- System QoS supports setting the qos-group and DSCP for IP packets.
- The System QoS feature does not support collecting, displaying, or analyzing traffic statistics managed by QoS policies.

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 statistics limitation

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

For information on QoS statistics, see [Monitoring the Statistics](#).