

## Configuring Event Statistics

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To configure the router to count events on a queue, you configure the threshold above which forwarding or drop events are counted.

A forwarding rate event occurs each time the forwarding rate exceeds the threshold during the specified rate period.

A drop event occurs each time the number of packets dropped exceeds the threshold during the specified rate period.

To gather event statistics:

1. Create the statistics profile.

```
host1(config)#statistics-profile statpro-1
```

2. Set the length of time during which statistics are counted.

```
host1(config-statistics-profile)#rate-period 30
```

Rate period range is 1–43200 seconds.

3. (Optional) Set the threshold above which forwarding rate events are counted.

```
host1(config-statistics-profile)#forwarding-rate-threshold 10000000
```

Forwarding rate threshold range is 0–1073741824 bps; default is no threshold.

4. (Optional) Set a threshold for committed (green) packets.

```
host1(config-statistics-profile)#committed-drop-threshold 2000000
```

Drop rate threshold range is 0–1073741824 bps; default is no threshold.

5. (Optional) Set a threshold for conformed (yellow) packets.

```
host1(config-statistics-profile)#conformed-drop-threshold 4000000
```

Drop rate threshold range is 0–1073741824 bps; default is no threshold.

6. (Optional) Set a threshold for exceeded (red) packets.

```
host1(config-statistics-profile)#exceeded-drop-threshold 6000000
```

Drop rate threshold range is 0–1073741824 bps; default is no threshold.

7. Reference the statistics profile in a QoS profile.

```
host1(config)#qos-profile qospro-1  
host1(config-qos-profile)#ip queue traffic-class tc1 scheduler-profile sp1  
statistics-profile statpro-1
```

8. Attach the QoS profile to the appropriate interface.

```
host1(config)#interface gigabitEthernet 1/0  
host1(config-subif)#qos-profile qospro-1  
host1(config-subif)#exit
```

9. (Optional) Display the event statistics.

```
host1#show egress-queue events interface gigabitEthernet 1/0
```

- Related Topics**
- Configuring Statistic Profiles for QoS
  - Configuring a QoS Profile
  - Monitoring QoS Statistics for Rates and Events
  - committed-drop-threshold command
  - conformed-drop-threshold command
  - exceeded-drop-threshold command
  - forwarding-rate-threshold command
  - qos-profile command
  - queue command
  - rate-period command
  - statistics-profile command