

## Configuring Rate Shaping for a Scheduler Node or Queue

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The router supports 64,000 rate shapers per line module. Shaping rates are multiples of 1 Kbps.

To configure a shaping rate for a scheduler node or queue:

1. Create a scheduler profile.

```
host1(config)#scheduler-profile video
host1(config-scheduler-profile)#
```

2. Specify a shaping rate in the scheduler profile.

```
host1(config-scheduler-profile)#shaping-rate 128000 burst 32767 milliseconds
host1(config-scheduler-profile)#shaping-rate 5000 x 90
```

The range for the shared-shaping rate is 1000–1000000000 bps (1 Kbps–1000 Kbps); the default is the minimum shaping rate (1 Kbps). The router rounds the rate to the next higher 8 Kbps.

Use the `operator` and `operandValue` variables to configure a shaping rate with an expression.

You can use the **bps** or **kbps** keywords to specify the unit of the shaping rate. By default, the shaping rate is configured in bps.

Use the **burst** keyword to specify the catch-up number associated with the shaper; the range is 0–522240. Specifying 0 enables the router to select an applicable default value.

Use the **milliseconds** or **bytes** keywords to specify the unit of the burst size.

- Related Topics**
- Rate Shaping and Port Shaping Overview
  - Configuring a Scheduler Profile for a Scheduler Node or Queue
  - scheduler-profile
  - shaping-rate

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