

## Configuring Simple Shared Shaper Algorithm Variables

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To configure the variables for all simple shared shapers on the router:

1. Enter QoS Shared Shaper Control Configuration mode.

```
host1(config)#qos-shared-shaper-control  
host1(config-qos-shared-shaper-control)#
```

2. (Optional) Configure the convergence factor for all simple shared shapers on the router.

```
host1(config-qos-shared-shaper-control)#convergence-factor 25
```

The convergence factor determines how quickly the dynamic shaping rate converges with the calculated dynamic shaping rate, and is expressed as a percentage of the available bandwidth.

The range for the convergence factor is 0–99 percent, with 0 being the most liberal and 99 the most conservative. The default value is 50.

3. (Optional) Configure the specify the reaction factor for all simple shared shapers on the router.

```
host1(config-qos-shared-shaper-control)#reaction-factor 50
```

The reaction factor determines how the shared shaper reacts to changes in the measured rate.

The range for the reaction factor is 0–1000; 0 is the most liberal and 1000 is the most conservative. The default value is 200.

4. (Optional) Specify the minimum value of the dynamic shaping rate as a percentage of the shared shaping rate for all simple shared shapers on the router.

```
host1(config-qos-shared-shaper-control)#minimum-dynamic-rate-percent 50  
The range for the minimum dynamic rate value is 0–100 percent. The default  
value is 0.
```

5. (Optional) Configure a maximum value for the virtual output queue length (VOQL) for all simple shared shapers on the router.

```
host1(config-qos-shared-shaper-control)#maximum-voql 25
```

The VOQL tracks the amount of data over queued between simple shared-shaper rate periods.

The range for the maximum VOQL value is 0–10000 milliseconds (ms). The default value is 4000.

- Related Topics**
- Simple Shared Shaping Algorithm Overview
  - Variables of the Simple Shared Shaper Algorithm
  - Guidelines for Controlling the Simple Shared Shaper Algorithm

- Sample Process for Controlling the Simple Shared Shaper Algorithm
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- convergence-factor
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