

## Configuring Port Shaping

---

To configure port-shaping:

1. Configure the scheduler profile and the shaping rate.

```
host1(config)#scheduler-profile 80mbps
host1(config-scheduler-profile)#shaping-rate 80000000
host1(config-scheduler-profile)#exit
```

2. Configure a QoS profile, specify the **node** command, and reference the scheduler-profile.

```
host1(config)#qos-profile 80mbps
host1(config-qos-profile)#ethernet node scheduler-profile 80mbps
host1(config-qos-profile)#exit
```

3. Attach the QoS profile to the port.

```
host1(config)#interface fastethernet 2/0
host1(config-if)#qos-profile 80mbps
```

The sample configuration shapes Fast Ethernet port 2/0 to a rate no higher than 80 Mbps.

Using the following configuration, you can shape the corresponding HDLC channel down to 20 Mbps:

```
host1(config)#scheduler-profile 20mbps
host1(config-scheduler-profile)#shaping-rate 20000000
host1(config-scheduler-profile)#exit
host1(config)#qos-profile 20mbps
host1(config-qos-profile)#serial node scheduler-profile 20mbps
host1(config-qos-profile)#exit
host1(config)#interface serial 2/0:1/1
host1(config-if)#qos-profile 20mbps
```

- Related Topics**
- Rate Shaping and Port Shaping Overview
  - Configuring a Scheduler Profile for a Scheduler Node or Queue
  - For more information about specifying an expression that you can reference within a scheduler profile, see Using Expressions for Bandwidth and Burst Values in a Scheduler Profile
  - node
  - qos-profile

- scheduler-profile
- shaping-rate

---

Published: 2010-03-21