

## Configuring a Parameter Definition to Shape Ethernet Traffic Using Cell Mode

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To associate a parameter instance with the QoS cell mode application:

1. Configure traffic classes.

```
host1(config)#traffic-class voice  
host1(config-traffic-class)#exit  
host1(config)#traffic-class best-effort  
host1(config-traffic-class)#exit
```

2. Create a parameter definition.

- a. Configure the QoS parameter name and the application.

```
host1(config)#qos-parameter-define shaping-mode application qos-cell-mode
```

- b. Configure a controlled-interface type.

```
host1(config-qos-parameter-define)#controlled-interface-type vlan  
host1(config-qos-parameter-define)#controlled-interface-type ip
```

- c. Configure an instance-interface type.

```
host1(config-qos-parameter-define)#instance-interface-type vlan
```

3. Create the parameter instance and configure the shaping mode.

When you create the parameter instance and configure the shaping mode, the value of frame shaping mode is 0; the value for cell shaping mode is 1.

```
host1(config)#interface gigabitEthernet 6/0/2  
host1(config-if)#encapsulation vlan  
host1(config-if)#interface gigabitEthernet 6/0/2.1  
host1(config-if)#vlan id 1  
host1(config-if)#qos-parameter cell-mode 1  
host1(config-if)#ip address 6.10.10.10 255.255.255.255  
host1(config-if)#exit  
host1(config)#interface gigabitEthernet 6/0/2  
host1(config-if)#svlan 1 qos-parameter cell-mode 1  
host1(config-if)#exit  
host1(config)#interface gigabitEthernet 6/0/2  
host1(config-if)#qos-parameter cell-mode 1
```

- Related Topics**
- [Configuring a Parameter Definition to Shape Ethernet Traffic Using Cell Mode on page 1](#)
  - [Example: QoS Parameter Configuration for QoS Cell Mode and Byte Adjustment for Cell Shaping](#)
  - [For more information about configuring scheduler rates for QoS parameters, see Scheduler Profiles and Parameter Expressions for QoS Administrators](#)

- For more information about the QoS downstream rate application, see QoS Downstream Rate Application Overview
- controlled-interface-type
- instance-interface-type
- interface gigabitEthernet
- ip address
- qos-parameter
- qos-parameter-define
- scheduler-profile
- svlan qos-parameter
- traffic-class
- vlan id

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Published: 2010-01-12