

# QoS Function Configuration Commands

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# CHAPTER 1 QOS SERVICE CONFIGURATION COMMANDS

## 1.1. QoS Configuration Commands

- QoS Configuration Commands include:
- `cos default`
- `cos map`
- `scheduler wrr bandwidth`
- `scheduler policy`
- `policy-map`
- `classify`
- `action`
- `qos policy`

### 1.1.1. `cos default`

#### Syntax

```
cos default cos  
no cos default
```

To configure the default value of CoS, use the **cos default** command. To disable the configuration, use the negative form of this command.

#### Parameter

Parameter	Description
<code>cos</code>	Default cos value. The range is 0-7

#### Default value

0

#### Usage guidelines

Layer 2 interface configuration mode

#### Example

Set the CoS value of the no-label frame received from ge0/1 interface to **4**.

```
Switch(config)# interface gigabitethernet0/1
```

```
Switch(config-if)# cos default 4
```

### 1.1.2. `cos map`

#### Description

```
cos map quid cos1..cosn
```

no cos map

To set the CoS priority queues, use the **cos map** command.

### Parameter

Parameter	Description
<i>quid</i>	ID of CoS priority queues. The range is 1 to 8
<i>cos1..cosn</i>	CoS value defined by IEEE802.1p. The range is 0 to 7

### Default

CoS value	Priority Queue
0, 1	1
2, 3	2
4, 5	3
6,7	4

### Usage guidelines

Layer 2 interface configuration mode

Using this command in the global configuration mode will affect all CoS priority queue; while configuring this command in layer 2 interface command will only affect CoS priority queue of the interface.

### Example

The following example maps CoS 0-2 to CoS priority queue 1 and maps CoS 3 to priority queue 2:

```
Switch(config-if)# cos map 1 0 1 2
```

```
Switch(config-if)# cos map 2 3
```

### 1.1.3. scheduler wrr bandwidth

#### Syntax

```
scheduler wrr bandwidth weight1...weightn
```

```
no scheduler wrr bandwidth
```

To configure the bandwidth of the cos priority queue, use the **scheduler wrr bandwidth** command.

#### Parameter

Parameter	Description
<i>weight1...weight8</i>	WRR 8 CoS priority queue metrics the range is 1 to 5

**Default value**

All CoS priority queue metrics must be the same, the eight CoS priority queue metrics are all 12.

**Usage guidelines**

It works in port configuration mode.

The command validates only when the queue schedule mode of a port is set to **wrr**. It defines the bandwidth metrics of the CoS priority queue for the **wrr** schedule strategy.

**Example**

Configure the eight CoS priority queue metrics as 1, 2, 3, 4, 5, 6, 7, 8

```
Switch(config)# scheduler wrr bandwidth 1, 2, 3, 4, 5, 6, 7, 8
```

**1.1.4. scheduler policy****Syntax**

```
scheduler policy { sp | wrr }
```

```
no scheduler policy
```

To set CoS priority queue debug policy, use the **scheduler policy** command.

**Parameter**

Parameter	Description
<b>sp</b>	Use the <b>sp</b> scheduler strategy.
<b>wrr</b>	Use the <b>wrr</b> scheduler strategy

**Default value**

use SP

**Usage guidelines**

Global configuration mode

After configure the command, the interface send debug mode is configured to specified value.

**Example**

Configure interface send debug mode as wrr.

```
Switch(config)#scheduler policy wrr
```