QoS Function Configuration Commands

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Chapter 1 QoS Service Configuration Commands

1.1 QoS Configuration Commands

- QoS Configuration Commands include:
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1.1.1 cos default

Description

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
cos	Default cos value. The range is 0-7

Default

0

Instruction

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
quid	ID of CoS priority queues. The range is 1 to 8
cos1..cosn	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

Instruction

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 1and 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

Description

scheduler wrr bandwidth *weight1...weightn*

no scheduler wrr bandwidth

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

Parameter

Parameter	Description
weight1…weight8	WRR 8 CoS priority queue metrics the range is 1to 5。

Default

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

Instruction

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 broadband 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

Description

scheduler policy { **sp** | **wrr** }

no scheduler policy

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

Parameter

Parameter	Description
sp	Use the **sp** scheduler strategy.
wrr	Use the **wrr** scheduler strategy

Default

use SP

Instruction

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