

FiberstoreOS

Traffic Management Command Line Reference

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1 QOS Commands

1.1 Bandwidth

Use this command to allocate a percentage of the interface bandwidth to a queue. To remove configuration, use the no form of this command.

Command Syntax

bandwidth percentage *PERCENTAGE*

no bandwidth percentage

<i>PERCENTAGE</i>	Specifies the percentage of bandwidth of the underlying link rate. The range is 1-100.
-------------------	--

Command Mode

Policy map type traffic-class class configuration

Defaults

None

Usage

Total percentage of all queues is 100. Unused bandwidth is allocated to default class.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# bandwidth percentage 20
```

Related Commands

priority level

1.2 class type qos

To add a reference to an existing class map in a policy map and enter the class mode, use the class command. To remove a class from the policy map, use the no form of this command

Command Syntax

class type qos *NAME*

no class type qos *NAME*

<i>NAME</i>	Reference to a class map. The class map name can be a maximum of 40 characters. The name is case sensitive and can only contain alphabetic characters, numbers, hyphens, and underscores.
-------------	---

Command Mode

Policy map configuration

Defaults

None

Usage

Policy actions in the first class that matches the traffic type are performed.

By default, the class-default class is created under every policy map in the system and it is mapped to the traffic-class 0. You cannot change this mapping.

You cannot remove the class-default. If you attempt to delete the class-default class, the switch returns an error message.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap)# class type qos cmap1
```

Related Commands

policy-map

class-map

1.3 class type qos class-default

To add a reference to the system default class that does not match any traffic class, use the class class-default command. To remove the system default class from the policy map, use the no form of this command.

Command Syntax

class type qos class-default

Command Mode

Policy map configuration

Defaults

None

Usage

Traffic that fails to match any class is assigned to a default class of traffic called class-default. You cannot delete this class

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos class-default
```

Related Commands

policy-map

1.4 class type traffic-class

To add a reference to an existing class map in a policy map and enter the class mode, use the class command. To remove a class from the policy map, use the no form of this command.

Command Syntax

class type traffic-class *NAME*

<i>NAME</i>	Reference to a class map. The class map name can be a maximum of 40 characters. The name is case sensitive and can only contain alphabetic characters, numbers, hyphens, and underscores.
-------------	---

Command Mode

Policy map configuration

Defaults

None

Usage

Using this command, traffic classified by traffic-class can be specified varieties of properties, such as priority, bandwidth, etc.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
```

Related Commands

policy-map traffic-class

set traffic-class

1.5 class-map type qos

To create or modify a class map and enter the class-map configuration mode, use the class-map command. To remove a class map, use the no form of this command.

Command Syntax

class-map type qos *NAME*

<i>NAME</i>	Name assigned to the class map. The name can be a maximum of 40 characters. The name is case sensitive and can only contain alphanumeric characters, hyphens, and underscores. The name class-default is reserved.
-------------	--

Command Mode

Global configuration mode

Defaults

None

Usage

You can define a class map for each class of traffic to be used in QoS policies. If the packet matches any of the criteria configured for this class map with the match command, then this class map is applied to the packet. If no execution strategy is specified (match-any or match-all), then the default value of match-any is applied to the traffic class.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
```

Related Commands

policy-map
class

1.6 class-map type traffic-class

To create or modify a class map and enter the class-map configuration mode, use the class-map command. To remove a class map, use the no form of this command.

Command Syntax

class-map traffic-class *NAME*

<i>NAME</i>	Name assigned to the class map. The name can be a maximum of 40 characters. The name is case sensitive and can only contain alphanumeric characters, hyphens, and underscores. The name class-default is reserved.
-------------	--

Command Mode

Global configuration mode

Defaults

None

Usage

This type class-map is used to identify traffic flows with different traffic class.

Examples

```
Switch# configure terminal
Switch(config)# class-map type traffic-class cmap_tc
```

Related Commands

policy-map
class traffic-class
set traffic-class

1.7 clear qos aggregate-policer statistics

Use this command to clear aggregate policing statistics.

Command Syntax

clear qos aggregate-policer *NAME* **statistics**

<i>NAME</i>	Aggregate policer name.
-------------	-------------------------

Command Mode

Privileged EXEC mode

Defaults

None

Usage

None

Examples

```
Switch# clear qos aggregate-policer example statistics
```

Related Commands

show qos aggregate-policer

1.8 clear qos interface statistics policer flow

Use this command to clear flow policer statistics on specified interface.

Command Syntax

clear qos interface *NAME* **statistics policer flow**

<i>NAME</i>	interface name
-------------	----------------

Command Mode

Privileged EXEC mode

Defaults

None

Usage

None

Examples

```
Switch# clear qos interface eth-0-1 statistics policer flow
```

Related Commands

1.9 clear qos interface statistics policer port

Use this command to clear port policer statistics.

Command Syntax

clear qos interface *NAME* **statistics policer port {input|output}**

<i>NAME</i>	Interface name.
-------------	-----------------

Command Mode

Privileged EXEC mode

Defaults

None

Usage

None

Examples

```
Switch# clear qos interface eth-0-1 statistics policer port input
```

Related Commands

show qos interface

1.10 clear qos interface statistics queue

Use this command to clear the queue statistics on specified interface.

Command Syntax

clear qos interface *NAME* statistics queue

<i>NAME</i>	Interface name.
-------------	-----------------

Command Mode

Privileged EXEC mode

Defaults

None

Usage

None

Examples

```
Switch# clear qos interface eth-0-1 statistics queue
```

Related Commands

show qos interface queue statistics

1.11 match cos

To define the class of traffic using the class of service (CoS) value in class map, use the match cos command. To remove the match on the CoS value, use the no form of this command.

Command Syntax

match cos *COS*

<i>COS</i>	Specified CoS value
------------	---------------------

Command Mode

Class-map configuration

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# class-map type qos cmap_qos
Switch(config-cmap-qos)# match cos 5
```

Related Commands

class-map

1.12 match dscp

To identify specific differentiated services code point (DSCP) values as a match criterion, use the match dscp command. To remove specified DSCP values as a match criterion, use the no form of this command.

Command Syntax

match dscp *DSCP_STR*

Command Mode

Class-map configuration

Defaults

None

Usage

Match criteria can be PHB string

PHB	DSCP
af11	10
af12	12
af13	14
af21	18
af22	20
af23	22
af31	26
af32	28
af33	30
af41	34
af42	36
af43	38
cs1	8
cs2	16
cs3	24
cs4	32
cs5	40
cs6	48

cs7	56
default	0
ef	46

Examples

```
Switch# configure terminal
Switch(config)# class-map type qos cmap_qos
Switch(config-cmap-qos)# match dscp af11
```

Related Commands

class-map

1.13 match precedence

To configure a class map to use the precedence value in the type of service (ToS) byte field of the IP header as match criteria, use the match precedence command. To remove the precedence values as match criteria, use the no form of this command.

Command Syntax

match precedence *PREC_STR*

<i>NAME</i>	class-map name
-------------	----------------

Command Mode

Class-map configuration

Defaults

None

Usage

Match criteria can be PHB string

PHB	Precedence
critical	Critical precedence (5)
flash	Flash precedence (3)
flash-override	Flash override precedence (4)
immediate	Immediate precedence (2)
internet	Internet network control precedence (6)
network	Network control precedence (7)
priority	Priority precedence (1)
routine	Routine precedence (0)

Examples

```
Switch# configure terminal
Switch(config)# class-map type qos cmap_qos
Switch(config-cmap-qos)# match precedence critical
```

Related Commands

class-map

1.14 match access-group

Use this command to configure a match criterion by referencing an access list in a class-map. To remove the access-list from a class-map, use the no form of this command.

Command Syntax

match access-group *NAME*

<i>NAME</i>	access-list name
-------------	------------------

Command Mode

Class-map configuration

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# class-map type qos cmap_qos
Switch(config-cmap-qos)# match access-group example
```

Related Commands

class-map

1.15 match traffic-class

To configure a class map to use a specific QoS traffic-class value as a match criterion, use the match traffic-class command. To remove the specified protocol as match criteria, use the no form of this command.

Command Syntax

match traffic-class *CLASS-ID*

<i>CLASS-ID</i>	Specified traffic class value .The valid values are from 1 to 6.
-----------------	--

Command Mode

Class-map configuration

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# class-map type traffic-class cmap_tc
Switch(config-cmap-tc)# match traffic-class 6
```

Related Commands

class-map

1.16 policy-map type qos

Use this command to create a policy map. To remove the policy-map, use the no form of this command.

Command Syntax

policy-map type qos *NAME*

no policy-map *NAME*

<i>NAME</i>	Specify a policy-map name
-------------	---------------------------

Command Mode

Global Configuration

Defaults

None

Usage

The policy-map can be attached to multiple physical ports at ingress directions.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
```

Related Commands

service-policy

1.17 policy-map type traffic-class

Use this command to create a policy map. To remove the policy-map, use the no form of this command.

Command Syntax

policy-map traffic-class *NAME*

<i>NAME</i>	Specify a policy-map name
-------------	---------------------------

Command Mode

Global Configuration

Defaults

Disabled

Usage

This command is used to create policy map to identify traffic flows with different traffic class.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
```

Related Commands

service-policy traffic-class

1.18 pause buffer-size

To specify the buffer threshold settings for pause and resume, use the pause buffer-size command. To remove the buffer threshold settings for pause and resume, use the no form of this command.

Command Syntax

pause buffer-size *BUFFER-SIZE* **pause-threshold** *XOFF-SIZE* **resume-threshold** *XON-SIZE* **pfc-cos** *COS*

no pause

<i>BUFFER-SIZE</i>	Buffer size for ingress traffic, in bytes.
<i>XOFF-SIZE</i>	Specifies the buffer limit at which the traffic class pauses the peer
<i>XON-SIZE</i>	Specifies the buffer limit at which the traffic class resumes the peer
<i>COS</i>	Specifies the pause priority

Command Mode

Policy map type traffic class configuration mode

Defaults

Disabled

Usage

Use this command to configure the buffer size, threshold values and priority flow control pause priority.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# pause buffer-size 200 pause-threshold 150 resume-threshold
100 pfc-cos 5
```

Related Commands

None

1.19 priority level

To assign a strict priority level to a traffic class in a policy map, use the priority level command. To remove the mapping, use the no form of this command,

Command Syntax

priority level *LEVEL*

no priority level

<i>NAME</i>	Specifies the strict-priority level. These levels can range from 1 to 2, where 1 is the highest and 2 is the lowest priority
-------------	--

Command Mode

Policy map type traffic class configuration mode

Defaults

None

Usage

Total 3 strict priority is supported and priority 3 is used by control traffic.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# priority level 5
```

Related Commands

show qos interface

1.20 qos aggregate-policer

Use this command to create an aggregate policer instance. The aggregate policer can be shared by multiple classes of traffic. To remove the aggregate policer instance, use the no form of this command.

Command Syntax

qos aggregate-policer *NAME* {color-blind|color-aware} cir *CIR* [*cbs CBS*] [*ebs EBS*] {exceed | violate} drop [*statistics*]

qos aggregate-policer *NAME* {color-blind|color-aware} cir *CIR* {*cbs CBS*|*eir EIR*} [*ebs EBS*] {exceed | violate} drop [*statistics*]

no qos aggregate-policer *NAME*

<i>NAME</i>	Specify an aggregate-policer name
<i>cir</i> <i>CIR-RATE</i>	CIR - Commit Information Rate with the range of 8 to 100,000,000 kbps
<i>cbs</i> <i>CBS-SIZE</i>	CBS - Commit Burst Size with the range of 1000 to 640,000 bytes
<i>eir</i> <i>EIR-RATE</i>	EIR-Excess Information Rate with range of 8 to 100,000,000 kbps
<i>ebs</i> <i>EBS-SIZE</i>	EBS - Excess Burst Size with the range of 1000 to 640,000 bytes
<i>statistics</i>	enable policer statistics

Command Mode

Global Configuration

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# qos aggregate-policer example color-aware cir 1000 cbs 2000 eir 3000
ebs 4000 exceed drop statistics
```

Related Commands

show qos aggregate-policer

1.21 aggregate-policer (policy-map)

Use this command to rate-limit the aggregate traffic matching this traffic class for all interfaces in the same slot. To cancel rate limit, use the no form of this command.

Command Syntax

aggregate-policer *NAME*

no aggregate-policer

<i>NAME</i>	Aggregate policer name.
-------------	-------------------------

Command Mode

Policy map type class configuration mode

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# aggregate-policer transmit1
```

Related Commands

show qos aggregate policer

1.22 policer(policy-map)

Use this command to rate-limit traffic matching this traffic class for a specified interface. To cancel rate limit, use the no form of this command.

Command Syntax

policer *NAME* {color-blind|color-aware} cir *CIR* [cbs *CBS*] [ebs *EBS*] {exceed | violate} drop [statistics]

policer *NAME* {color-blind|color-aware} cir *CIR* {cbs *CBS*|eir *EIR*} [ebs *EBS*] {exceed | violate} drop [statistics]

no policer

<i>NAME</i>	Specify an aggregate-policer name
<i>cir</i> <i>CIR-RATE</i>	CIR - Commit Information Rate with the range of 8 to 100,000,000 kbps
<i>cbs</i> <i>CBS-SIZE</i>	CBS - Commit Burst Size with the range of 1000 to 640,000 bytes
<i>eir</i> <i>EIR-RATE</i>	EIR-Excess Information Rate with range of 8 to 100,000,000 kbps

<i>ebs</i> <i>EBS-SIZE</i>	EBS - Excess Burst Size with the range of 1000 to 640,000 bytes
<i>statistics</i>	enable policer statistics

Command Mode

Policy map type class configuration mode

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# policer color-blind cir 50000 cbs 40000 ebs 30000 exceed drop
statistics
```

```
Switch# configure terminal
Switch(config)# policy-map pmap1
Switch(config-pmap-c)#class cmap1
Switch(config-pmap-c)#policer color-blind cir 2000000 cbs 640000 ebs 640000 violate drop
statistics
```

Related Commands

show qos policy-map

1.23 qos policer(port)

Use this command to configure a port-policer for an interface matching all traffic transmitted or received in different direction. To cancel the rate limit, use the no form of this command.

Command Syntax

qos policer {input | output} {color-blind|color-aware} cir CIR [cbs CBS] [ebs EBS] {exceed | violate} drop [statistics]

qos policer {input | output} {color-blind|color-aware} cir CIR {cbs CBS|eir EIR} [ebs EBS] {exceed | violate} drop [statistics]

no qos policer {input | output}

<i>NAME</i>	Specify an aggregate-policer name
<i>cir</i> <i>CIR-RATE</i>	CIR - Commit Information Rate with the range of 8 to 100,000,000 kbps
<i>cbs</i> <i>CBS-SIZE</i>	CBS - Commit Burst Size with the range of 1000 to 640,000 bytes
<i>eir</i> <i>EIR-RATE</i>	EIR-Excess Information Rate with range of 8 to 100,000,000 kbps
<i>ebs</i> <i>EBS-SIZE</i>	EBS - Excess Burst Size with the range of 1000 to 640,000 bytes

<i>statistics</i>	enable policer statistics
-------------------	---------------------------

Command Mode

Interface Configuration

Defaults

None

Usage

This command is used to configure policing on port level.

Examples

```
Switch# configure terminal
Switch(config)# interface eth-0-1
Switch(config-if)# qos policer input color-blind cir 50000 cbs 40000 ebs 30000 exceed
drop statistics
```

Related Commands

show qos domain map-table

1.24 qos shape rate(port)

Use this command to configure shaping for a physical port in absolute value mode. To remove port shaping, use the no form of this command.

Command Syntax

qos shape rate *RATE* (**ecn-percentage** *PERCENTAGE*)

no qos shape rate

<i>RATE</i>	Shaping rate with the range of 0 to 100, 000,0000.
<i>PERCENTAGE</i>	ECN make rate for shaping value

Command Mode

Interface Configuration

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# interface eth-0-1
Switch(config-if)# qos shape rate 1000
```

Related Commands

show qos interface

1.25 shape rate(queue)

Use this command to configure shaping for a traffic class of a physical port in absolute value mode. To remove shaping, use the no form of this command.

Command Syntax

shape rate *RAT*

no shape rate

<i>RATE</i>	The value for commit information rate with the range of 0 to 100,000,000.
-------------	---

Command Mode

Policy map type traffic class configuration mode

Defaults

None

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# shape rate 100000
```

Related Commands

show qos interface queue

1.26 queue-limit

Use this command to specify queue buffer.

Command Syntax

queue-limit *SIZE*

no queue-limit

<i>SIZE</i>	Queue buffer cell number. 288Bytes per cell
-------------	---

Command Mode

Policy map type traffic class configuration mode.

Defaults

64 buffer cells for control traffic;
256 buffer cells for non-drop traffic.

Usage

None

Examples

```
Switch# configure terminal
```

```
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# queue-limit 200
```

Related Commands

show qos interface

1.27 queue-limit dynamic

Use this command to specify dynamic buffer for queue.

Command Syntax

queue-limit dynamic *LEVEL*

<i>LEVEL</i>	Max available buffer for this queue, range is 0-3. 3: 15% of shared pool 2: 30% of shared pool 1: 50% of shared pool 0: 70% of shared pool
--------------	--

Command Mode

Policy map type traffic class configuration mode

Defaults

70% of shared pool can be consumed by queue.

Usage

There are 4 profile shared by dynamic and static queue-limited. If 4 profiles are used up, queue-limit configuration would return errors.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# queue-limit dynamic 2
```

Related Commands

show qos interface queue

1.28 random-detect

Use this command to configure random detect parameters.

Command Syntax

random-detect maximum-threshold *MIN* [minimum-threshold *MAX*] [*ecn*]

no random-detect

<i>MIN</i>	minimum value, in buffer cell
<i>MAX</i>	maximum value, in buffer cell

Command Mode

Policy map type traffic class configuration mode

Defaults

None

Usage

There are 4 profile shared by dynamic and static queue-limited. If 4 profiles are used up, queue-limit configuration would return errors.

If ecn is enabled, packet would be marked, instead of dropped.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type traffic-class pmap_tc
Switch(config-pmap-tc)# class type traffic-class cmap_tc
Switch(config-pmap-tc-c)# random-detect maximum-threshold 200 ecn
```

Related Commands

show qos interface

1.29 set cos

Use this command to remark packet CoS value.

Command Syntax

set cos *COS*

no set *COS*

Command Mode

Policy map class configuration mode

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# set cos 3
```

Related Commands

show policy-map

1.30 set dscp

Use this command to mark DSCP value.

Command Syntax

set dscp *DSCP_STR*

no set dscp

Command Mode

Policy map class configuration mode

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# set dscp cs3
```

Related Commands

show policy-map

1.31 set precedence

Use this command to mark Precedence value.

Command Syntax

set precedence *PREC_STR*

no set precedence

Command Mode

Policy map class configuration mode

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# set precedence network
```

Related Commands

None

1.32 set traffic-class

Use this command to set traffic flow's class ID.

Command Syntax

set traffic-class *CLASS-ID*

no set traffic-class

<i>CLASS-ID</i>	traffic class ID, range is 1-6
-----------------	--------------------------------

Command Mode

Policy map class configuration mode

Defaults

None

Usage

Traffic flow with different traffic class ID would be given varieties of treatments in ingress and egress.

Examples

```
Switch# configure terminal
Switch(config)# policy-map type qos pmap_qos
Switch(config-pmap-qos)# class type qos cmap_qos
Switch(config-pmap-qos-c)# set traffic-class 3
```

Related Commands

show policy-map

1.33 service-policy type qos

Use this command to apply a policy-map to an interface to affect the traffic classification rules. To remove the policy-map from the interface, use the no form of this command.

Command Syntax

service-policy type qos input *NAME*

no service-policy input

<i>NAME</i>	Policy-map name
-------------	-----------------

Command Mode

Interface Configuration

Defaults

Disabled

Usage

None

Examples

```
Switch# configure terminal
Switch(config)# interface eth-0-1
Switch(config-if)# service-policy type qos input pmap_qos
```

Related Commands

clear qos statistics

1.34 service-policy type traffic-class

Use this command to apply a policy-map to an interface to affect the traffic queuing rules. To remove the policy-map from the interface, use the no form of this command.

Command Syntax

service-policy type traffic-class *NAME*

no service-policy type traffic-class

<i>NAME</i>	the policy-map name
-------------	---------------------

Command Mode

Interface Configuration

QoS global Configuration

Defaults

None

Usage

This command is used to apply queuing and priority-flow-control parameters on interface.

Examples

```
Switch# configure terminal
Switch(config)# interface eth-0-1
Switch(config-if)# service-policy type traffic-class pmap_tc
```

Related Commands

show qos interface

1.35 show qos aggregate-policer statistics

Use this command to show aggregator-policer information.

Command Syntax

show qos aggregator-policer *NAME* [*statistics*]

<i>NAME</i>	aggregate policer name
<i>statistics</i>	Show the statistics of the aggregator policer

Command Mode

Privileged EXEC

Defaults

Disabled

Usage

This command is used to show aggregator-policer information.

Examples

```
Switch# show qos aggregate-policer example
Aggregate policer: test
  color blind
  CIR 1000 kbps, CBS 640000 bytes, EBS 640000 bytes
  drop violate packets
```

Related Commands

aggregate-policer

1.36 show qos interface

Use this command to display configuration of each traffic class per interface.

Command Syntax

show qos interface *NAME*

<i>NAME</i>	Interface name
-------------	----------------

Command Mode

Privileged EXEC

Defaults

None

Usage

None

Examples

```
Switch# show qos interface eth-0-legress
TC Priority Bandwidth Shaping(kbps) Drop-Mode Max-Queue-Limit(Cell) ECN
0 0 - - dynamic level 0 -
1 1 - - dynamic level 0 -
2 2 - - dynamic level 0 -
3 3 - - dynamic level 0 -
4 4 - - dynamic level 0 -
5 5 - - dynamic level 0 -
6 6 - - dynamic level 0 -
7 7 - - tail-drop 64 -
```

Related Commands

show qos interface queue statistics

1.37 show qos interface statistics policer flow

Use this command to show the policer statistics of policy-map on interface.

Command Syntax

show qos interface *NAME* statistics policer flow

<i>NAME</i>	interface name
-------------	----------------

Command Mode

Privileged EXEC

Defaults

None

Usage

Using this command, the flow policer stats can be shown when class-based is specified and flow policer statistics is enabled.

Examples

```
Switch# show qos interface eth-0-1 statistics policer flow
Interface: eth-0-1
  Ingress service policy: b

  flow policer for class: class-default
  color blind
  CIR 100 kbps, CBS 640000 bytes, EBS 640000 bytes
  drop violate packets
Statistics:
Type   Packets      Bytes      Action
-----
Confirm 0             0      Transmit
Exceed  0             0      Transmit
Violate 0             0        Drop
Total  0             0         -
```

Related Commands

policy-map

1.38 show qos interface statistics policer port

Use this command to display port policer statistics.

Command Syntax

show qos interface *NAME* statistics policer port {input|output}

<i>NAME</i>	Interface name
--------------------	----------------

Command Mode

Privileged EXEC

Defaults

None

Usage

None

Examples

```
Switch# show qos interface eth-0-1 statistics policer port input
Interface: eth-0-1
```

```

input port policer:
color blind
CIR 100 kbps, CBS 640000 bytes, EBS 640000 bytes
drop violate packets
Statistics:
Type   Packets      Bytes      Action
Confirm 0           0          Transmit
Exceed  0           0          Transmit
Violate 0           0          Drop
Total  0           0          -

```

Related Commands

qos policer

1.39 show qos interface statistics queue

Use this command to display the statistics of traffic class per interface.

Command Syntax

show qos interface *NAME* statistics queue

<i>NAME</i>	Interface name
--------------------	----------------

Command Mode

Privileged EXEC

Defaults

None

Usage

None

Examples

```

Switch# show qos interface eth-0-1 statistics queue
Queue Transmit-packets  Transmit-Bytes  Drop-packets  Drop-Bytes
UC0           0             0             0             0
UC1           0             0             0             0
UC2           0             0             0             0
UC3           0             0             0             0
UC4           0             0             0             0
UC5           0             0             0             0
UC6           0             0             0             0
UC7           0             0             0             0
MC0           0             0             0             0
MC1           0             0             0             0
MC2           0             0             0             0
MC3           0             0             0             0
SPAN         0             0             0             0

```

Related Commands

None