



Show commands

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show class-map type network-qos

To display type network-qos class maps, use the **show class-map type network-qos** command.

show class-map type network-qos

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any

Command History	Release	Modification
	5.1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the type network-qos class maps:

```
switch# show class-map type network-qos
Type network-qos class-maps
=====
class-map type network-qos match-any c-nq-8e
  Description: 8E Drop CoS map
  match cos 0-7
class-map type network-qos match-any c-nq-4e-drop
  Description: 4E Drop CoS map
  match cos 0,5-7
class-map type network-qos match-any c-nq-6e-drop
  Description: 6E Drop CoS map
  match cos 0-2,5-7
class-map type network-qos match-any c-nq-7e-drop
  Description: 7E Drop CoS map
  match cos 0-2,4-7
class-map type network-qos match-any c-nq-4e-ndrop
  Description: 4E No-Drop CoS map
  match cos 1-2,4
class-map type network-qos match-any c-nq-6e-ndrop
  Description: 6E No-Drop CoS map
  match cos 4
class-map type network-qos match-any c-nq-4e-ndrop-fcoe
  Description: 4E No-Drop FCoE CoS map
  match cos 3
  match protocol fcoe
class-map type network-qos match-any c-nq-6e-ndrop-fcoe
  Description: 6E No-Drop FCoE CoS map
  match cos 3
  match protocol fcoe
class-map type network-qos match-any c-nq-7e-ndrop-fcoe
  Description: 7E No-Drop FCoE CoS map
```

```
match cos 3
match protocol fcoe
```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show class-map type qos

To display type qos class maps, use the **show class-map type qos** command.

show class-map type qos [*class-map-name*|*color-class-map-name*]

Syntax Description

<i>class-map-name</i>	(Optional) Named class map. The name <i>class-default</i> is reserved.
<i>color-class-map-name</i>	(Optional) System-defined color class map.

Command Default

Displays all type qos class maps if no class map name is specified.

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

The following table displays the list of system-defined class maps that display with this command:

Table 1: System-Defined Type QoS Class Maps That Display with This Command

Class Map Name	Description
conform-color-in	Type qos conform color class map in the input direction. This color-aware class map makes a policer color-aware for conform action.
conform-color-out	Type qos conform color class map in the output direction. This color-aware class map makes a policer color-aware for conform action.
exceed-color-in	Type qos exceed color class map in the input direction. This color-aware class map makes a policer color-aware for exceed action.
exceed-color-out	Type qos exceed color class map in the output direction. This color-aware class map makes a policer color-aware for exceed action.

When you enter the command **show class-map** with no arguments or keywords, the system also displays the Control Plane Policing (CoPP) configuration.

This command does not require a license.

Examples

This example shows how to display all type qos class maps:

```
switch(config)# show class-map type qos

Type qos class-maps
=====
class-map type qos match-all abc
  match dscp 0-3
class-map type qos conform-color-in
  Description: Conform color map in input direction
class-map type qos conform-color-out
  Description: Conform color map in output direction
class-map type qos exceed-color-in
  Description: Exceed color map in input direction
class-map type qos exceed-color-out
  Description: exceed color map in output direction
```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show class-map type queuing

To display type queuing class maps, use the **show class-map type queuing** command.

show class-map type queuing [*class-map-name*]

Syntax Description

<i>class-map-name</i>	(Optional) Named class map.
-----------------------	-----------------------------

Command Default

Displays all type queuing class maps if no class map name is specified.

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

For a list of the system-defined type queuing class maps, see [Table 1](#):

This command does not require a license.

Examples

This example shows how to display all type queuing class maps:

```
switch(config)# show class-map type queuing
Type queuing class-maps
=====
class-map type queuing match-any 2q4t-in-q1
  Description: Classifier for ingress queue 1 of type 2q4t
  match cos 5-7
class-map type queuing match-any 2q4t-in-q-default
  Description: Classifier for ingress default queue of type 2q4t
  match cos 0-4
class-map type queuing match-any 8q2t-in-q1
  Description: Classifier for ingress queue 1 of type 8q2t
  match cos 5-7
class-map type queuing match-any 8q2t-in-q2
  Description: Classifier for ingress queue 2 of type 8q2t
class-map type queuing match-any 8q2t-in-q3
  Description: Classifier for ingress queue 3 of type 8q2t
class-map type queuing match-any 8q2t-in-q4
  Description: Classifier for ingress queue 4 of type 8q2t
class-map type queuing match-any 8q2t-in-q5
  Description: Classifier for ingress queue 5 of type 8q2t
class-map type queuing match-any 8q2t-in-q6
  Description: Classifier for ingress queue 6 of type 8q2t
class-map type queuing match-any 8q2t-in-q7
  Description: Classifier for ingress queue 7 of type 8q2t
class-map type queuing match-any 8q2t-in-q-default
  Description: Classifier for ingress default queue of type 8q2t
```

```

match cos 0-4
class-map type queuing match-any lp3q4t-out-pq1
  Description: Classifier for egress priority queue of type lp3q4t
match cos 5-7
class-map type queuing match-any lp3q4t-out-q2
  Description: Classifier for egress queue 2 of type lp3q4t
class-map type queuing match-any lp3q4t-out-q3
  Description: Classifier for egress queue 3 of type lp3q4t
class-map type queuing match-any lp3q4t-out-q-default
  Description: Classifier for egress default queue of type lp3q4t
match cos 0-4
class-map type queuing match-any lp7q4t-out-pq1
  Description: Classifier for egress priority queue of type lp7q4t
match cos 5-7
class-map type queuing match-any lp7q4t-out-q2
  Description: Classifier for egress queue 2 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q3
  Description: Classifier for egress queue 3 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q4
  Description: Classifier for egress queue 4 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q5
  Description: Classifier for egress queue 5 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q6
  Description: Classifier for egress queue 6 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q7
  Description: Classifier for egress queue 7 of type lp7q4t
class-map type queuing match-any lp7q4t-out-q-default
  Description: Classifier for egress default queue of type lp7q4t
match cos 0-4

```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show hardware qos shared-buffer

To display the status of the shared buffer, use the **show hardware qos shared-buffer** command.

show hardware qos shared buffer [**module** *module number*] [**port-group** *port number*]

Syntax Description

module	Displays the shared buffer module information.
<i>module number</i>	Number of the module. The range is from 1 to 18.
port-group	Displays the shared buffer port-group information.
<i>module number</i>	Number of the port-group. The range is from 0 to 11.

Command Default

None

Command Modes

Any

Command History

Release	Modification
6.2(10)	This command was introduced

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display the hardware QoS shared buffer module:

```
switch# show hardware qos shared-buffer module 1
Device: M2
-----
INGRESS VOQ DROP COUNTS:
-----
Source Intf      Traffic Type      Drop Reason      Count
-----
eth 17/1         Unicast          VOQ tail-drop   2130695
eth 17/1         Multicast        VOQ tail-drop   2077665
eth 17/2         Unicast          VOQ tail-drop   1830747
eth 17/3         Unicast          VOQ tail-drop    5969
eth 17/3         Multicast        VOQ tail-drop   17809
eth 17/4         Unicast          VOQ tail-drop   189479
eth 17/5         Unicast          VOQ tail-drop  2025511
eth 17/6         Unicast          VOQ tail-drop  2117541
-----
EGRESS MCAST TAIL DROP COUNTS:
-----
ASIC      Count
-----
```



```
0          142235
1          1400315
2          140656
3          1395476
>
switch#
```

show hardware internal qengine inst registers name

To display the logs that is specific to a QEngine ASIC register, use the **show hardware internal qengine inst registers name** command.

show hardware internal qengine inst *asic-inst-number* **registers name** *name*

Syntax Description

<i>asic-inst-number</i>	ASIC instance number.
name <i>name</i>	Name of the register.

Command Default

None

Command Modes

Privileged EXEC mode

Command History

Release	Modification
7.3(0)D1(1)	This command was introduced

Usage Guidelines

The command should be executed after attaching to the module.

Examples

The following example shows the logs that is specific to the QEngine ASIC register whose name is specified in the command. The below output indicates that on port 11, that is Ethernet 1/11, there is traffic on VL 0, that is -out-q4, and 1, that is out-q5. Each nibble covers 4 VLs or queues. Hence, 2 nibbles are used for 1 port. The UE__0 register covers port 9-12 and the QUE__1 register covers port 13-14.

```
switch# show hardware internal qengine inst 1 registers name STA_ucr_que
+-----+
| Instance Registers for Queue Driver
| Inst 1; port(s) 9-16
|
ADDR(0x) REG NAME VAL(0x) [POS] FLD_NAME
-----
43f1 FLN_EB_STA_UCR_QUE__1 00000000
43f2 FLN_EB_STA_UCR_QUE__0 00030000
```

Related Commands

Command	Description
show system internal aclqos event-history	Displays port monitor active policies.
show hardware internal qengine event-history port	Displays the QEngine ASIC driver logs.

show hardware internal qengine event-history port

To display the QEngine ASIC driver logs, use the **show hardware internal qengine event-history port** command.

show hardware internal qengine event-history port *port-number*

Syntax Description

port <i>port-number</i>	Specifies the port number.
--------------------------------	----------------------------

Command Default

None

Command Modes

Privileged EXEC mode

Command History

Release	Modification
7.3(0)D1(1)	This command was introduced

Usage Guidelines

None.

Examples

The following example shows how to display the QEngine ASIC driver logs. The below output indicates that shaper on egress is read to be 1% of port bandwidth for stream reservation (SR) Class A that corresponds to qnum 0 on interface Ethernet 1/10 that corresponds to port 10:

```
switch# show hardware internal qengine event-history port
+-----+
1) Event:E_DEBUG, length:104, at 286547 usecs after Wed Mar 4 14:44:25 2015
[0] [INFO] fln_que_qos_get_dyn_shaper_cfg(3138): port 10: FS RL rate is 0% for qnum 1, speed
10000 mbps
2) Event:E_DEBUG, length:104, at 284679 usecs after Wed Mar 4 14:44:25 2015
[0] [INFO] fln_que_qos_get_dyn_shaper_cfg(3138): port 10: FS RL rate is 1% for qnum 0, speed
10000 mbps
3) Event:E_DEBUG, length:124, at 910973 usecs after Wed Mar 4 14:26:17 2015
[0] [INFO] fln_que_qos_set_dyn_shaper_cfg(3323): port 10: FS RL update succeeded for qnum
0, rate 1%, port speed 10000 mbps
...
```

Related Commands

Command	Description
show system internal aclqos event-history	Displays port monitor active policies.

Command	Description
show hardware internal qengine inst registers name	Displays the output that is specific to QEngine ASIC register.

show hardware queuing drops

To display the hardware queuing drops information, use the **show queuing drops** command.

show hardware queuing drops ingress egress module *module number*

Syntax Description

ingress	Displays the ingress drops.
egress	Displays the egress drops.
module	Displays the queuing drops module information.
<i>module number</i>	Displays the module number. The range is from 1 to 10.

Command Default

None

Command Modes

Any

Command History

Release	Modification
6.1(2)	Added the ingress and egress drops.
6.1(1)	This command was introduced.

Usage Guidelines

Egress is only supported on F2 module.
This command does not require a license.

Examples

This example shows how to display the hardware queuing drops for ingress:

```
switch# show hardware queuing drops ingress
slot 5
=====
Device: Clipper Xbar
Buffer tail drop:
  SOURCE INTERFACE   OVL   COUNT
  -----
    E5/1             1     10
VOQ drop:
  SOURCE INTERFACE   VQI   CCOS   COUNT
  -----
    E5/1             96    3     20
SPAN drop:
  SOURCE INTERFACE   SESSION  COUNT
```

This example shows how to display the hardware queuing drops for egress:

```
switch# show hardware queuing drops egress
slot 1
=====
VQ Drops
Output      VQ*      VQ      Source  Source  Input
Interface   Drops    Congestion  Module Instance Interface
-----
E1/2        2        3        8      0        E8/1-4
Egress Buffer Drops
Output      EB
Interface   Drops
-----
E1/2        4067
* VQ Drops valid on F2E modules only
```

This example shows how to display the hardware queuing drops module for M2 cards:

```
switch# show hardware queuing drops ingress module 1
Device: M2
-----
INGRESS VOQ DROP COUNTS:
-----
Source Intf   Traffic Type   Drop Reason           Count
-----
eth 17/1     Unicast       VOQ tail-drop        2130695
eth 17/1     Multicast     VOQ tail-drop        2077665
eth 17/2     Unicast       VOQ tail-drop        1830747
eth 17/3     Unicast       VOQ tail-drop         5969
eth 17/3     Multicast     VOQ tail-drop        17809
eth 17/4     Unicast       VOQ tail-drop        189479
eth 17/5     Unicast       VOQ tail-drop        2025511
eth 17/6     Unicast       VOQ tail-drop        2117541
-----
EGRESS MCAST TAIL DROP COUNTS:
-----
ASIC      Count
-----
0         142235
1         1400315
2         140656
3         1395476
>
switch#
```

Related Commands

Command	Description
priority-flow-control	Configures priority flow control (PFC) on an interface.

show interface priority-flow-control

To display the status of priority flow control (PFC) on all interfaces, use the **show interface priority-flow-control** command.

show interface priority-flow-control

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any

Release	Modification
5.1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the status of PFC on all interfaces:

```
switch# show interface priority-flow-control
=====
Interface      Admin Oper
=====
Ethernet5/1    Auto  Off
Ethernet5/2    Auto  Off
Ethernet5/3    Auto  Off
Ethernet5/4    Auto  Off
Ethernet5/5    On     On
Ethernet5/6    Auto  Off
Ethernet5/7    Auto  Off
Ethernet5/8    Auto  Off
Ethernet5/9    Auto  Off
Ethernet5/10   Auto  Off
Ethernet5/11   Auto  Off
Ethernet5/12   Auto  Off
Ethernet5/13   Auto  Off
Ethernet5/14   Auto  Off
Ethernet5/15   Auto  Off
Ethernet5/16   Auto  Off
Ethernet5/17   Auto  Off
Ethernet5/18   Auto  Off
Ethernet5/19   Auto  Off
Ethernet5/20   Auto  Off
Ethernet5/21   Auto  Off
--More--
```


Related Commands

Command	Description
priority-flow-control	Configures priority flow control (PFC) on an interface,

show ipv6 local policy

To display the information about the policy, use the **show ipv6 local policy** command.

show ipv6 local policy

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Global command mode

Command History	Release	Modification
	6.2(2)	This command was introduced.

Usage Guidelines To use this command Policy Based Routing (PBR) feature must be enabled.
This command does not require a license.

Examples This example shows how to display the information about the policy:

```
switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# feature pbr
switch(config)# show ipv6 local policy
Interface                Route-map                Status    VRF-Name
switch(config)#
```

Related Commands	Command	Description
	feature pbr	Enables Policy Based Routing (PBR) fetaure.

show policy-map

To display policy maps and statistics, use the **show policy-map** command.

show policy-map [**type** {**qos**| **queuing**}] [*policy-map-name*]

Syntax Description

type	(Optional) Specifies the component type to display.
qos	Specifies the policy maps of the type qos only. It uses L3 MTU (Packet length). For Example, when a packet with length 1000 bytes L2 frame is used, it counts with 18 bytes without tag and 22 bytes less if it is with tag.
queuing	Specifies the policy maps of the type queuing only. It uses L2 MTU (Frame length) and counts as a full packet length.
<i>policy-map-name</i>	Named policy map.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.
4.0(3)	The WRR for the type queuing default-in-policy was changed from 50/50 to 80/20.

Usage Guidelines

When you enter the command **show policy-map** with no arguments or keywords, the system also displays the Control Plane Policing (CoPP) information.

This command does not require a license.

Examples

This example shows how to display a named policy map:

```
switch(config)# show policy-map abc
Type qos policy-maps
=====
policy-map type qos abc
```

```

class abc
  set dscp 3
  set qos-group 3
  set cos dscp table cos-dscp-map
class class-default

```

This example shows how to display all type queuing policy maps:

```

switch(config)# show policy-map type queuing
Type queuing policy-maps
=====
policy-map type queuing q1
  class type queuing 8q2t-in-q-default
  set cos 4
policy-map type queuing default-in-policy
  class type queuing in-q1
  queue-limit percent 50
  bandwidth percent 80
  class type queuing in-q-default
  queue-limit percent 50
  bandwidth percent 20
policy-map type queuing default-out-policy
  class type queuing out-pq1
  priority level 1
  queue-limit percent 16
  class type queuing out-q2
  queue-limit percent 1
  class type queuing out-q3
  queue-limit percent 1
  class type queuing out-q-default
  queue-limit percent 82
  bandwidth remaining percent 25

```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show policy-map interface

To display policy maps and statistics for the interfaces, use the **show policy-map interface** command.

```
show policy-map interface [ethernet slot/port| port-channel channel-number] [input| output] [type {qos|
queuing}]
```

Syntax Description

ethernet	(Optional) Specifies the policy maps that are assigned to Ethernet interfaces.
<i>slot/port</i>	Policy maps that are assigned to a specified interface.
port-channel	(Optional) Specifies the policy maps that are assigned to port channels.
<i>channel-number</i>	Policy maps that are assigned to specified port channel.
input	(Optional) Displays policy maps that are assigned to input traffic only.
output	(Optional) Displays policy maps that are assigned to output traffic only.
type	(Optional) Specifies the component type to display.
qos	Specifies the policy maps of the type qos only.
queuing	Specifies the policy maps of the type queuing only.

Command Default

None.

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

By default, statistics are enabled.

The **shared** keyword displays the shared queuing status only if shared buffer queuing is enabled and applied.

This command does not require a license.

Examples

This example shows how to display policy maps that are assigned to a specified interface:

```
switch(config)# show policy-map interface ethernet 2/10
Global statistics status : enabled
Ethernet2/10
  Service-policy (queuing) input: default-in-policy
  policy statistics status: enabled
  Class-map (queuing): in-q1 (match-any)
  queue-limit percent 50
  bandwidth percent 50
  queue dropped pkts : 0
  Class-map (queuing): in-q-default (match-any)
  queue-limit percent 50
  bandwidth percent 80
  queue dropped pkts : 0
  Service-policy (queuing) output: default-out-policy
  policy statistics status: enabled
  Class-map (queuing): out-pq1 (match-any)
  priority level 1
  queue-limit percent 16
  queue dropped pkts : 0
  Class-map (queuing): out-q2 (match-any)
  queue-limit percent 1
  queue dropped pkts : 0
  Class-map (queuing): out-q3 (match-any)
  queue-limit percent 1
  queue dropped pkts : 0
  Class-map (queuing): out-q-default (match-any)
  queue-limit percent 82
  bandwidth remaining percent 25
  queue dropped pkts : 0
```

This example shows how to display policy maps that are assigned to a specified interface:

```
switch(config)# show policy-map interface ethernet 2/2 type qos
Global statistics status : enabled
Ethernet2/2
  Service-policy (qos) input: pmappolicy statistics status: enabled
  Class-map (qos): map (match-all)1000000 packetsMatch: dscp 46police cir percent 20 bc 200
  msconformed 78962304 bytes, 2725540 bps action: transmitviolated 49037696 bytes, 1692633
  bps action: drop
  Class-map (qos): class-default (match-any)1000000 packetspolice cir percent 10 bc 200
  msconformed 39481856 bytes, 1362794 bps action: transmitviolated 88518144 bytes, 3055378
  bps action: drop
```

This example shows how to display input queuing policy statistics in the specified interface. The below output indicates the ingress AVB statistics for Stream Reservation (SR) Class A (in-q3) and SR Class B (-in-q4). The field description is self-explanatory.

```
switch(config)# show policy-map interface Ethernet 1/15 input type queuing
Global statistics status : enabled
Ethernet1/15
  Service-policy (queuing) input: default-8021qav-4q8q-in-policy
  SNMP Policy Index: 301993025
  Class-map (queuing): 8021qav-4q8q-in-q1 (match-any)
  queue-limit percent 10
  bandwidth percent 10
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 65162 queue transmit bytes: 5287504
```

```

Class-map (queuing): 8021qav-4q8q-in-q-default (match-any)
  queue-limit percent 30
  bandwidth percent 30
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 180604306  queue transmit bytes: 270903732036

Class-map (queuing): 8021qav-4q8q-in-q3 (match-any)
  queue-limit percent 30
  bandwidth percent 30
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 90301204  queue transmit bytes: 135451806000

Class-map (queuing): 8021qav-4q8q-in-q4 (match-any)
  queue-limit percent 30
  bandwidth percent 30
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 7525100  queue transmit bytes: 11287650000

```

This example shows how to display input queuing policy statistics in the specified interface. The below output indicates the ingress AVB statistics for Stream Reservation (SR) Class A (in-q3) and SR Class B (-in-q4). The field description is self-explanatory.

```

switch(config)# show policy-map interface e1/15 output type queuing
Global statistics status : enabled
Ethernet1/15
  Service-policy (queuing) output: default-8021qav-4q8q-out-policy
  SNMP Policy Index: 301996799

Class-map (queuing): 8021qav-4q8q-out-q1 (match-any)
  priority level 2
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0

Class-map (queuing): 8021qav-4q8q-out-q2 (match-any)
  bandwidth remaining percent 30
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0

Class-map (queuing): 8021qav-4q8q-out-q3 (match-any)
  bandwidth remaining percent 30
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0
Class-map (queuing): 8021qav-4q8q-out-q4 (match-any)
  priority level 1
  shape average percent 0
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0
Class-map (queuing): 8021qav-4q8q-out-q5 (match-any)
  priority level 1
  shape average percent 0
  queue dropped pkts : 63399
  queue dropped bytes : 0
  queue transmit pkts: 1395  queue transmit bytes: 2137140
Class-map (queuing): 8021qav-4q8q-out-q6 (match-any)
  bandwidth remaining percent 5
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0
Class-map (queuing): 8021qav-4q8q-out-q7 (match-any)
  bandwidth remaining percent 5
  queue dropped pkts : 0
  queue dropped bytes : 0
  queue transmit pkts: 0  queue transmit bytes: 0
Class-map (queuing): 8021qav-4q8q-out-q-default (match-any)
  bandwidth remaining percent 30

```

```

queue dropped pkts : 0
queue dropped bytes : 0
queue transmit pkts: 3736344 queue transmit bytes: 5715525567

```

This example shows how to display input queuing policy statistics in the specified port channel.

```

switch(config)# show policy-map interface port-channel 6

Global statistics status: enabled

port-channel6

Service-policy (queuing) input: default-8e-4q8q-in-policy
SNMP Policy Index: 301993627

Class-map (queuing): 8e-4q8q-in-q1 (match-any)
queue-limit percent 10
bandwidth percent 49
queue dropped pkts: 0
queue dropped bytes: 0
queue transmit pkts: 2175032764 queue transmit bytes: 1051188564890

Class-map (queuing): 8e-4q8q-in-q-default (match-any)
queue-limit percent 88
bandwidth percent 49
queue dropped pkts: 0
queue dropped bytes: 0 current depth bytes: 99
queue transmit pkts: 518903560636 queue transmit bytes: 457520859584290

```

In this example, the **current depth bytes** field appears because of an active congestion.

The **current depth bytes** field appears for any physical interface when there is an active congestion and the software reads the counter. The value of the counter must be non zero. The current depth indicates that there are packets waiting in the buffer to be forwarded. The value of the current depth is in bytes.

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show policy-map interface brief

To display policy maps applied to interfaces in a brief format, use the **show policy-map interface brief** command.

show policy-map interface brief

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any command mode

Release	Modification
4.0	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display assigned policy maps in a brief format:

```
switch(config)# show policy-map interface brief
Interface/VLAN [Status]:INP QOS      OUT QOS      INP QUE      OUT QUE
=====
port-channel5  [Active]:      default-in-po default-out-p
port-channel20 [Active]:      default-in-po default-out-p
port-channel30 [Active]:      default-in-po default-out-p
port-channel37 [Active]:      default-in-po default-out-p
port-channel50 [Active]:      default-in-po default-out-p
Ethernet2/2    [Active]:      default-in-po default-out-p
Ethernet2/3    [Active]:      default-in-po default-out-p
=====
```

Command	Description
show policy-map	Displays policy maps and statistics.

show policy-map port-group brief

To display a report of all policies attached to port groups in a brief format, use the **show policy-map port-group brief** command.

show policy-map port-group brief

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any command mode

Command History	Release	Modification
	6.2(10)	This command was introduced.

Usage Guidelines The policy names displayed in the output correspond to current active templates or user-defined policies that are attached to port-groups.

This command does not require a license.

Examples This example shows how to display a report of policy maps that are attached to port groups:

```
switch(config)# show policy-map port-group brief
Portgroup           [Status]  INP QUE
=====
Module 3 port-group 0 [Active]  default-4q-7e-in-policy
Module 3 port-group 1 [Active]  default-4q-7e-in-policy
```

Related Commands

Command	Description
show policy-map	Displays policy maps and statistics.

show policy-map system

To display information about the network qos and queuing policy-maps that are currently in effect on the system, use the show policy-map system command.

show policy-map system

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.2(2)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display the system fabric policy queuing:

```
switch# show policy-map system
Type network-qos policy-maps
=====
policy-map type network-qos default-nq-8e-policy template 8e
  class type network-qos c-nq-8e
    match cos 0-7
    congestion-control tail-drop
    mtu 1500
Service-policy input: default-4q-8e-in-policy
Service-policy (queuing) input: default-4q-8e-in-policy
policy statistics status: disabled (current status: disabled)
Class-map (queuing): 2q4t-8e-in-q1 (match-any)
  queue-limit percent 10
  bandwidth percent 50
Class-map (queuing): 2q4t-8e-in-q-default (match-any)
  queue-limit percent 90
  bandwidth percent 50
Service-policy output: default-4q-8e-out-policy
Service-policy (queuing) output: default-4q-8e-out-policy
policy statistics status: disabled (current status: disabled)
Class-map (queuing): 1p3qlt-8e-out-pq1 (match-any)
  priority level 1
Class-map (queuing): 1p3qlt-8e-out-q2 (match-any)
  bandwidth remaining percent 33
Class-map (queuing): 1p3qlt-8e-out-q3 (match-any)
  bandwidth remaining percent 33
Class-map (queuing): 1p3qlt-8e-out-q-default (match-any)
  bandwidth remaining percent 33
switch#
```

Related Commands

Commands	Description
show policy-map	Displays the policy maps and statistics.

show policy-map system type network-qos

To display the active type network-qos policy maps, use the **show policy-map system type network-qos** command.

show policy-map system type network-qos

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any

Command History	Release	Modification
	5.1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the active type network-qos policy maps:

```
switch# show policy-map system type network-qos
Type network-qos policy-maps
=====
policy-map type network-qos default-nq-4e-policy
  class type network-qos c-nq-4e-drop
    match cos 0,5-7
    congestion-control tail-drop
    mtu 1500
  class type network-qos c-nq-4e-ndrop-fcoe
    match cos 3
    match protocol fcoe
    pause
    mtu 2112
  class type network-qos c-nq-4e-ndrop
    match cos 1-2,4
    pause
    mtu 1500
```

Related Commands

Command	Description
show policy-map type network-qos	Displays the type network qos policy maps.
show policy-map	Displays policy maps and statistics.

show policy-map type network-qos

To display the type network-qos policy maps, use the **show policy-map system type network-qos** command.

show policy-map type network-qos

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Any

Command History	Release	Modification
	5.1(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the type network-qos policy maps:

```
switch# show policy-map type network-qos
Type network-qos policy-maps
=====
policy-map type network-qos default-nq-4e-policy
  class type network-qos c-nq-4e-drop
    congestion-control tail-drop
    mtu 1500
  class type network-qos c-nq-4e-ndrop-fcoe
    pause
    mtu 2112
  class type network-qos c-nq-4e-ndrop
    pause
    mtu 1500
policy-map type network-qos default-nq-6e-policy
  class type network-qos c-nq-6e-drop
    congestion-control tail-drop
    mtu 1500
  class type network-qos c-nq-6e-ndrop-fcoe
    pause
    mtu 2112
  class type network-qos c-nq-6e-ndrop
    pause
    mtu 1500
policy-map type network-qos default-nq-7e-policy
  class type network-qos c-nq-7e-drop
    congestion-control tail-drop
    mtu 1500
  class type network-qos c-nq-7e-ndrop-fcoe
    pause
    mtu 2112
policy-map type network-qos default-nq-8e-policy
```

```
class type network-qos c-nq-8e
  congestion-control tail-drop
  mtu 1500
```

Related Commands

Command	Description
show policy-map	Displays policy maps and statistics.

show policy-map type queuing

To display the queuing policy that you copied and renamed, use the **show policy-map type queuing** command.

show policy-map type queuing [*policy-map-name*]

Syntax Description

<i>policy-map-name</i>	The queuing policy that you copied and renamed.
------------------------	---

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.2(2)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display the queuing policy that you copied and renamed:

```
switch# configure terminal
switch# show policy-map type queuing test

Type queuing policy-maps
=====
policy-map type queuing test
  class type queuing 8q2t-in-q2
  class type queuing 8q2t-in-q3
    queue-limit dscp 12 percent 50
  class type queuing 8q2t-in-q4
switch(config-pmap-que) #
```

Related Commands

Command	Description
show policy-map	Displays policy maps and statistics.

show policy-map vlan

To display policy maps for the VLANs, use the **show policy-map vlan** command.

show policy-map vlan [*vlan-id*] [**input**|**output**] [**type** {**qos**|**queuing**}]

Syntax Description

<i>vlan-id</i>	(Optional) Policy maps assigned to specified VLAN.
input	(Optional) Displays policy maps that are assigned to input traffic only.
output	(Optional) Displays policy maps that are assigned to output traffic only.
type	(Optional) Specifies the component type to display.
qos	Specifies the policy maps of type qos only.
queuing	Specifies the policy maps of type queuing only. This keyword is not supported in Release 4.0.1.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display policy maps that are assigned to all VLANs:

```
switch(config)# show policy-map vlan
Global statistics status : enabled
Vlan 1
  Service-policy (qos) input: abc
  policy statistics status: enabled
  Class-map (qos): abc (match-all)
    Match: dscp 0-3
    set dscp 3
    set qos-group 3
    set cos dscp table cos-dscp-map
```

```
Class-map (qos):  class-default (match-any)
Service-policy (qos) output:  def
policy statistics status:  enabled
```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show qos dcbxp

To display the Data Center Bridging Capability Exchange Protocol (DCBXP) information on all interfaces, use the **show qos dcbxp** command.

show qos dcbxp {**incompatibility** [**interface ethernet** *slot/port-number*]} **info**}

Syntax Description

incompatibility	(Optional) Specifies the DCBXP incompatibility.
interface	(Optional) Specifies the Ethernet interface.
<i>slot/port-number</i>	Module number and the port number for which you want to display the incompatibility information.
info	(Optional) Specifies the DCBXP information.

Command Default

None

Command Modes

Any

Command History

Release	Modification
6.1(2)	Modified the command output to include iSCSI information.
5.1(1)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display the status of DCBXP on all interfaces:

```
switch# show qos dcbxp info
Interface      PFC_rcvd/cmptble PG_rcvd/cmptble MTU_rcvd/cmptble FCOE_rcvd/cmptble
iSCSI_rcvd/cmptbl
-----
Ethernet8/1    No/No            No/No            No/No            No/No            No/No
Ethernet8/2    No/No            No/No            No/No            No/No            No/No
Ethernet8/3    No/No            No/No            No/No            No/No            Yes/Yes
Ethernet8/4    No/No            No/No            No/No            No/No            No/No
switch#
```

Related Commands

Command	Description
show interface priority-flow-control	Displays the status of priority flow control (PFC) on all interfaces.

show qos shared-policer

To display qos shared policers, use the **show qos shared-policer** command.

show qos shared policer [**type qos**] [*policer-name*]

Syntax Description

type qos	(Optional) Specifies the type qos policers.
<i>policer-name</i>	(Optional) Specified policer name.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display all type qos policers:

```
switch(config)# show qos shared-policer
switch(config)# qos shared-policer foo cir 300 mbps bc 200 ms conform transmit violate drop
```

Related Commands

Command	Description
class-map	Creates or modifies a class map.

show queuing interface

To display queuing information on a specified interface, use the **show queuing interface** command.

show queuing interface ethernet *slot/port* summary

Syntax Description

ethernet	Specifies the Ethernet interface.
<i>slot/port</i>	Module number and the port number for which you want to display the queuing information.
summary	Specifies the summary.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.1(2)	Modified the command output to include DSP Queuing is not enabled for IPv6 packets.
6.1(1)	Added DSCPMap column to track DSCP to IVL changes. Added DSCP to IVL tracking status: Enabled or Disabled.
4.0	This command was introduced.

Usage Guidelines

This command does not require a license.

- On F cards we see HW related configuration (show queuing interface <X>) and (show queuing interface <X> summary)) will show the same output.
- On M cards “show queuing interface <X> summary” we see reference to SW configuration from User policy Applied. If Customer has to review the HW settings on M cards have to use “show queuing <X>” (or without summary keyword at the End)

Examples

This example shows how to display the queuing information for a specified interface:

```
switch# show queuing interface ethernet 2/9
Egress Queuing for Ethernet2/9 [System]
-----
```

```

Template: 4Q8E
-----
Que# Group Bandwidth% PrioLevel Shape% CoSMap
-----
0 0 - High - 5-7
1 1 33 - - 3-4
2 2 33 - - 2
3 3 33 - - 0-1
Ingress Queuing for Ethernet1/1 [System]
-----
Trust: Trusted
DSCP to Ingress Queue: Enabled
-----
Que# Group Qlimit% IVL CoSMap DSCPMap
-----
0 1 90 0 0-4 0-39
1 0 10 5 5-7 40-63
switch#

switch# show queuing interface e7/25
Egress Queuing for Ethernet7/25 [System]
-----
Template: 4Q8E
-----
Que# Group Bandwidth% PrioLevel Shape% CoSMap
-----
0 0 - High - 5-7
1 1 33 - - 3-4
2 2 33 - - 2
3 3 33 - - 0-1
Ingress Queuing for Ethernet7/25 [System]
-----
Trust: Trusted
DSCP to Ingress Queue : Enabled
[*DSCP Queuing is not enabled for IPV6 packets] >>> Do not supposed to show on CR boards.
-----
Que# Group Qlimit% IVL CoSMap DSCPMap
-----
0 1 90 0 0-4 0-39
1 0 10 5 5-7 40-63
This example shows how to display the queuing information for a specified interface and a
specified module:
switch# show queuing interface ethernet 1/1 module 1
Egress Queuing for Ethernet1/1 [System]
-----
Template: 8Q 8021QAV
-----
Queue Group Bandwidth% PrioLevel Shape% CoSMap
-----
8021qav-4q8q-out-q4 3 - High 55 3
8021qav-4q8q-out-q5 4 - High 5 2
8021qav-4q8q-out-q6 5 0 - -
8021qav-4q8q-out-q7 6 0 - -
8021qav-4q8q-out-q1 0 - Low - 5-7
8021qav-4q8q-out-q2 1 0 - - 4
8021qav-4q8q-out-q3 2 0 - - 1
8021qav-4q8q-out-q-default 7 0 - - 0
Ingress Queuing for Ethernet1/1 [System]
-----
Trust: Trusted
Shared Queue : Disabled
DSCP to Ingress Queue : Disabled
-----
Queue Group Qlimit% IVL CoSMap EXPMap
-----
8021qav-4q8q-in-q-default 1 30 0 0-1,4 0-1,4
8021qav-4q8q-in-q1 0 10 5 5-7 5-7
8021qav-4q8q-in-q4 3 30 2 2 2
8021qav-4q8q-in-q3 2 30 3 3 3

```

Related Commands

Command	Description
show class-map type queuing	Displays information about the class maps type queuing.
show policy-map type queuing	Displays information about the policy maps type queuing.

show running-config ipqos

To display information about the running-system configuration for quality of service (QoS), use the **show running-config ipqos** command.

show running-config ipqos [all]

Syntax Description

all	(Optional) Displays configured and default information.
------------	---

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display QoS information:

```
switch(config)# show running-config ipqos
version 4.0(3)
qos statistics
class-map type qos match-all abc
  match dscp 0-3
class-map type qos match-all qqg
class-map type qos match-all class1
class-map type qos match-all cmapdef
class-map type qos match-all my_test
  match cos 5
class-map type qos match-all my_class
  match discard-class 56
class-map type qos match-all class_acl
class-map type qos match-all class_protocol
class-map conform-color-in
class-map conform-color-out
class-map exceed-color-in
class-map exceed-color-out
class-map type queuing match-any 2q4t-in-q1
  match cos 5-7
class-map type queuing match-any 2q4t-in-q-default
  match cos 0-4
class-map type queuing match-any 8q2t-in-q1
  match cos 5-7
class-map type queuing match-any 8q2t-in-q2
class-map type queuing match-any 8q2t-in-q3
```

show running-config ipqos

```

class-map type queuing match-any 8q2t-in-q4
class-map type queuing match-any 8q2t-in-q5
class-map type queuing match-any 8q2t-in-q6
class-map type queuing match-any 8q2t-in-q7
class-map type queuing match-any 8q2t-in-q-default
  match cos 0-4
class-map type queuing match-any 1p3q4t-out-pq1
  match cos 5-7
class-map type queuing match-any 1p3q4t-out-q2
class-map type queuing match-any 1p3q4t-out-q3
class-map type queuing match-any 1p3q4t-out-q-default
  match cos 0-4
class-map type queuing match-any 1p7q4t-out-pq1
  match cos 5-7
class-map type queuing match-any 1p7q4t-out-q2
class-map type queuing match-any 1p7q4t-out-q3
class-map type queuing match-any 1p7q4t-out-q4
class-map type queuing match-any 1p7q4t-out-q5
class-map type queuing match-any 1p7q4t-out-q6
class-map type queuing match-any 1p7q4t-out-q7
class-map type queuing match-any 1p7q4t-out-q-default
  match cos 0-4
table-map cir-markdown-map
  default copy
  from 10,12 to 12
  from 18,20 to 20
  from 26,28 to 28
  from 34,36 to 36
table-map pir-markdown-map
  default copy
  from 10,12 to 14
  from 18,20 to 22
  from 26,28 to 30
  from 34,36 to 38
table-map cos-dscp-map
  default copy
  from 0 to 2
table-map cos-precedence-map
  default copy
table-map cos-discard-class-map
  default copy
table-map dscp-cos-map
  default copy
table-map dscp-precedence-map
  default copy
table-map dscp-discard-class-map
  default copy
table-map precedence-cos-map
  default copy
table-map precedence-dscp-map
  default copy
table-map precedence-discard-class-map
  default copy
table-map discard-class-cos-map
  default copy
table-map discard-class-dscp-map
  default copy
table-map discard-class-precedence-map
  default copy
table-map t1
  default copy
table-map abc
  default copy
table-map my_table1
  default copy
table-map steve_tm2
  default 3
table-map steve_table_map
  default ignore
policy-map type queuing q
policy-map type queuing pq
  class type queuing 8q2t-in-q4
    queue-limit cos 3 1000 packets

```

```

        queue-limit cos 4 1000 packets
        queue-limit 10000 packets
    policy-map type queuing q1
    policy-map type queuing q2
        class type queuing lp3q4t-out-pq1
    policy-map type queuing p_q
        class type queuing 8q2t-in-q4
        class type queuing 8q2t-in-q-default
        set cos 4
    policy-map type queuing abcq
        class type queuing 8q2t-in-q4
    policy-map type queuing p_q2
        class type queuing lp7q4t-out-q2
        shape average percent 10
    policy-map type queuing steve_q
        class type queuing lp7q4t-out-pq1
        class type queuing lp7q4t-out-q4
        class type queuing lp7q4t-out-q2
    policy-map type queuing my_queue
        class type queuing lp3q4t-out-pq1
    policy-map type queuing steve_pq1
        class type queuing lp3q4t-out-pq1
    policy-map type qos abc
        class abc
switch# show running-config ipqos
version 4.0(3)
class-map type qos match-all abc
    match dscp 0-3
class-map type qos match-all qqq
class-map type qos match-all class1
class-map type qos match-all cmapdef
class-map type qos match-all my_test
    match cos 5
class-map type qos match-all my_class
    match discard-class 56
class-map type qos match-all class_acl
class-map type qos match-all class_protocol
table-map cos-dscp-map
    default copy
    from 0 to 2
table-map t1
    default copy
table-map abc
    default copy
table-map my_table1
    default copy
table-map steve_tm2
    default 3
table-map steve_table_map
    default ignore
policy-map type queuing q
policy-map type queuing pq
    class type queuing 8q2t-in-q4
        queue-limit cos 3 1000 packets
        queue-limit cos 4 1000 packets
        queue-limit 10000 packets
policy-map type queuing q1
policy-map type queuing q2
    class type queuing lp3q4t-out-pq1
policy-map type queuing p_q
    class type queuing 8q2t-in-q4
    class type queuing 8q2t-in-q-default
    set cos 4
policy-map type queuing abcq
    class type queuing 8q2t-in-q4
policy-map type queuing p_q2
    class type queuing lp7q4t-out-q2
    shape average percent 10
policy-map type queuing steve_q
    class type queuing lp7q4t-out-pq1
    class type queuing lp7q4t-out-q4
    class type queuing lp7q4t-out-q2
policy-map type queuing my_queue

```

```

class type queuing lp3q4t-out-pq1
policy-map type queuing steve_pq1
class type queuing lp3q4t-out-pq1
policy-map type qos abc
class abc
set dscp 3
set qos-group 3
set cos dscp table cos-dscp-map
class class-default
policy-map type qos def
policy-map type qos policy1
class class-default
class class1
policy-map type qos polilcy1
policy-map type qos my_policy
class class-default
policy-map type qos my_policy1
policy-map type queuing my_policy1
class type queuing lp7q4t-out-q2
policy-map type queuing shape_queue
class type queuing lp3q4t-out-pq1
queue-limit 38984 packets
random-detect cos-based
policy-map type queuing shape_queues
class type queuing lp3q4t-out-pq1
policy-map type queuing lp3q4t-out-pq1
policy-map type queuing untrusted_port_cos
class type queuing 2q4t-in-q-default
interface Ethernet2/4
service-policy type qos input abc
service-policy type qos output def
service-policy type queuing output q1

```

Related Commands

Command	Description
show class-map	Displays information about class maps.
show policy-map	Displays statistics and information about policy maps.

show running-config ipqos

To display information about the running-system configuration for quality of service (QoS), use the **show running-config ipqos** command.

show running-config ipqos [all]

Syntax Description

all	(Optional) Displays configured and default information.
------------	---

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.0	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display QoS information:

```
switch(config)# show running-config ipqos
version 4.0(3)
qos statistics
class-map type qos match-all abc
  match dscp 0-3
class-map type qos match-all qqg
class-map type qos match-all class1
class-map type qos match-all cmapdef
class-map type qos match-all my_test
  match cos 5
class-map type qos match-all my_class
  match discard-class 56
class-map type qos match-all class_acl
class-map type qos match-all class_protocol
class-map conform-color-in
class-map conform-color-out
class-map exceed-color-in
class-map exceed-color-out
class-map type queuing match-any 2q4t-in-q1
  match cos 5-7
class-map type queuing match-any 2q4t-in-q-default
  match cos 0-4
class-map type queuing match-any 8q2t-in-q1
  match cos 5-7
class-map type queuing match-any 8q2t-in-q2
class-map type queuing match-any 8q2t-in-q3
```

show running-config ipqos

```

class-map type queuing match-any 8q2t-in-q4
class-map type queuing match-any 8q2t-in-q5
class-map type queuing match-any 8q2t-in-q6
class-map type queuing match-any 8q2t-in-q7
class-map type queuing match-any 8q2t-in-q-default
  match cos 0-4
class-map type queuing match-any 1p3q4t-out-pq1
  match cos 5-7
class-map type queuing match-any 1p3q4t-out-q2
class-map type queuing match-any 1p3q4t-out-q3
class-map type queuing match-any 1p3q4t-out-q-default
  match cos 0-4
class-map type queuing match-any 1p7q4t-out-pq1
  match cos 5-7
class-map type queuing match-any 1p7q4t-out-q2
class-map type queuing match-any 1p7q4t-out-q3
class-map type queuing match-any 1p7q4t-out-q4
class-map type queuing match-any 1p7q4t-out-q5
class-map type queuing match-any 1p7q4t-out-q6
class-map type queuing match-any 1p7q4t-out-q7
class-map type queuing match-any 1p7q4t-out-q-default
  match cos 0-4
table-map cir-markdown-map
  default copy
  from 10,12 to 12
  from 18,20 to 20
  from 26,28 to 28
  from 34,36 to 36
table-map pir-markdown-map
  default copy
  from 10,12 to 14
  from 18,20 to 22
  from 26,28 to 30
  from 34,36 to 38
table-map cos-dscp-map
  default copy
  from 0 to 2
table-map cos-precedence-map
  default copy
table-map cos-discard-class-map
  default copy
table-map dscp-cos-map
  default copy
table-map dscp-precedence-map
  default copy
table-map dscp-discard-class-map
  default copy
table-map precedence-cos-map
  default copy
table-map precedence-dscp-map
  default copy
table-map precedence-discard-class-map
  default copy
table-map discard-class-cos-map
  default copy
table-map discard-class-dscp-map
  default copy
table-map discard-class-precedence-map
  default copy
table-map t1
  default copy
table-map abc
  default copy
table-map my_table1
  default copy
table-map steve_tm2
  default 3
table-map steve_table_map
  default ignore
policy-map type queuing q
policy-map type queuing pq
  class type queuing 8q2t-in-q4
    queue-limit cos 3 1000 packets

```

```

        queue-limit cos 4 1000 packets
        queue-limit 10000 packets
policy-map type queuing q1
policy-map type queuing q2
    class type queuing lp3q4t-out-pq1
policy-map type queuing p_q
    class type queuing 8q2t-in-q4
    class type queuing 8q2t-in-q-default
    set cos 4
policy-map type queuing abcq
    class type queuing 8q2t-in-q4
policy-map type queuing p_q2
    class type queuing lp7q4t-out-q2
    shape average percent 10
policy-map type queuing steve_q
    class type queuing lp7q4t-out-pq1
    class type queuing lp7q4t-out-q4
    class type queuing lp7q4t-out-q2
policy-map type queuing my_queue
    class type queuing lp3q4t-out-pq1
policy-map type queuing steve_pq1
    class type queuing lp3q4t-out-pq1
policy-map type qos abc
    class abc
switch# show running-config ipqos
version 4.0(3)
class-map type qos match-all abc
    match dscp 0-3
class-map type qos match-all qqq
class-map type qos match-all class1
class-map type qos match-all cmapdef
class-map type qos match-all my_test
    match cos 5
class-map type qos match-all my_class
    match discard-class 56
class-map type qos match-all class_acl
class-map type qos match-all class_protocol
table-map cos-dscp-map
    default copy
    from 0 to 2
table-map t1
    default copy
table-map abc
    default copy
table-map my_table1
    default copy
table-map steve_tm2
    default 3
table-map steve_table_map
    default ignore
policy-map type queuing q
policy-map type queuing pq
    class type queuing 8q2t-in-q4
        queue-limit cos 3 1000 packets
        queue-limit cos 4 1000 packets
        queue-limit 10000 packets
policy-map type queuing q1
policy-map type queuing q2
    class type queuing lp3q4t-out-pq1
policy-map type queuing p_q
    class type queuing 8q2t-in-q4
    class type queuing 8q2t-in-q-default
    set cos 4
policy-map type queuing abcq
    class type queuing 8q2t-in-q4
policy-map type queuing p_q2
    class type queuing lp7q4t-out-q2
    shape average percent 10
policy-map type queuing steve_q
    class type queuing lp7q4t-out-pq1
    class type queuing lp7q4t-out-q4
    class type queuing lp7q4t-out-q2
policy-map type queuing my_queue

```

```

class type queuing lp3q4t-out-pq1
policy-map type queuing steve_pq1
class type queuing lp3q4t-out-pq1
policy-map type qos abc
class abc
set dscp 3
set qos-group 3
set cos dscp table cos-dscp-map
class class-default
policy-map type qos def
policy-map type qos policy1
class class-default
class class1
policy-map type qos polilcy1
policy-map type qos my_policy
class class-default
policy-map type qos my_policy1
policy-map type queuing my_policy1
class type queuing lp7q4t-out-q2
policy-map type queuing shape_queue
class type queuing lp3q4t-out-pq1
queue-limit 38984 packets
random-detect cos-based
policy-map type queuing shape_queues
class type queuing lp3q4t-out-pq1
policy-map type queuing lp3q4t-out-pq1
policy-map type queuing untrusted_port_cos
class type queuing 2q4t-in-q-default
interface Ethernet2/4
service-policy type qos input abc
service-policy type qos output def
service-policy type queuing output q1

```

Related Commands

Command	Description
show class-map	Displays information about class maps.
show policy-map	Displays statistics and information about policy maps.

show system internal qos queuing stats

To display the IP Quality of Service (QoS) statistics for the specified interface, use the **show system internal qos queuing stats** command.

show system internal qos queuing stats interface ethernet *slot/port*

Syntax Description

interface ethernet <i>slot/port</i>	Specifies the Ethernet interface.
--	-----------------------------------

Command Default

None

Command Modes

Privileged EXEC mode.

Command History

Release	Modification
7.3(0)D1(1)	This command was introduced.

Examples

The following example shows the interface queuing statistics for the specified interface. The field descriptions are self-explanatory.

```
switch# show system internal qos queuing stats interface ethernet 1/2

Interface Ethernet1/2 statistics
Receive queues
-----
Queue 8021qav-4q8q-in-q-default
Total bytes 0
Total packets 0
Pl Drops 0
Vq Drops 0
Other Drops 0
Queue 8021qav-4q8q-in-q1
Total bytes 1502260
Total packets 20461
Pl Drops 0
Vq Drops 0
Other Drops 0
Queue 8021qav-4q8q-in-q4
Total bytes 141892
Total packets 20178
Pl Drops 0
Vq Drops 0
Other Drops 0
Queue 8021qav-4q8q-in-q3
Total bytes 0
Total packets 0
Pl Drops 0
Vq Drops 0
Other Drops 0
Transmit queues
```

show system internal qos queuing stats

```

-----
Queue 8021qav-4q8q-out-q4
Total bytes 646287700758
Total packets 6334968852
Eb Drops 0
Other Drops 0
Queue 8021qav-4q8q-out-q5
Total bytes 0
Total packets 0
Eb Drops 0
Other Drops 0
Queue 8021qav-4q8q-out-q6
Total bytes 0
Total packets 0
Eb Drops 0
Other Drops 0
Queue 8021qav-4q8q-out-q7
Total bytes 0
Total packets 0
Eb Drops 0
Other Drops 0
...
Queue 8021qav-4q8q-out-q3
Total bytes 0
Total packets 0
Eb Drops 0
Other Drops 0
Queue 8021qav-4q8q-out-q-default
Total bytes 877304
Total packets 2194
Eb Drops 0
Other Drops 0

```

Related Commands

Command	Description
show system internal ipqos event-history	Displays the statistics of IP QOS Manager Message and Text messages.