



Q Commands

- [qos copy policy-map type network-qos prefix, on page 2](#)
- [qos copy policy-map type queuing prefix, on page 3](#)
- [qos qos-policies statistics, on page 4](#)
- [qos shared-policer, on page 5](#)
- [qos statistics, on page 9](#)
- [qualify udf, on page 10](#)
- [queue-limit, on page 11](#)
- [queue-limit2, on page 12](#)
- [queue-limit3, on page 13](#)

qos copy policy-map type network-qos prefix

qos copy policy-map type network-qos <pmap-nq-enum-name-dc3> { prefix | suffix } <ix-name>

Syntax Description

Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-nq-enum-name-dc3</i>	
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos copy policy-map type queuing prefix

```
qos copy policy-map type queuing <pmap-name-que-temp> { prefix | suffix } <ix-name>
```

Syntax Description

Syntax Description		
copy		Copy (Clone) template
policy-map		Configure a policy map
type		Specify the type of this policy-map
queuing		Queuing policy
<i>pmap-name-que-temp</i>		Policy-map name
prefix		Policy map name prefix
suffix		Policy map name suffix
<i>ix-name</i>		Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos qos-policies statistics

[no] qos qos-policies statistics

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	qos-policies	All qos type policies
	statistics	statistics

Command Mode

- /exec/configure

qos shared-policer

```
{ qos shared-policer [ type qos ] <policer-name> { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent
<cir-perc> } [ [ bc ] { <committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [
bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 |
mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } |
set-dscp-transmit { <dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit
<disc-class-val> | set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] ] } | no qos shared-policer [ type qos ] <policer-name>
}
```

Syntax Description

Syntax Description

no	Negate a command or set its defaults
shared-policer	Shared policer
<i>policer-name</i>	Shared policer name
type	(Optional) Specify the type of shared-policer
qos	QoS Global Commands
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second

pps	(Optional) Packets per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value

<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it

<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action

Command Mode

- /exec/configure

qos statistics

[no] qos statistics

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
statistics	statistics

Command Mode

- /exec/configure

qualify udf

[no] <udf_tcam_type> qualify udf { <udf_name> } +

Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
<i>udf_tcam_type</i>	Region type	
qualify	Configure UDFs to be qualified for span region	
udf	Configure UDF names	
<i>udf_name</i>	UDF name	

Command Mode

- /exec/configure/tcam-templ

queue-limit

```
[no] queue-limit [ cos <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent <perc-q-size>
| dynamic <alpha> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit	Configure queue size for the class
cos	(Optional) IEEE 802.1Q Class of Service
cos-val	(Optional) 802.1Q Class of Service value
percent	Specify queue size in Percentage
perc-q-size	Queue size in percentage of total tx/rx buffer size
dynamic	Queue size in dynamic alpha factor
alpha	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

queue-limit2

```
[no] queue-limit2 [ cos2 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent2
<perc-q-size> | dynamic2 <alpha> }
```

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
queue-limit2	Configure queue size for the class
cos2	(Optional) IEEE 802.1Q Class of Service
cos-val	(Optional) 802.1Q Class of Service value
percent2	Specify queue size in Percentage
perc-q-size	Queue size in percentage of total tx/rx buffer size
dynamic2	Queue size in dynamic alpha factor
alpha	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

queue-limit3

```
[no] queue-limit3 [ cos3 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent3
<perc-q-size> | dynamic3 <alpha> }
```

Syntax Description

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit3	Configure queue size for the class
cos3	(Optional) IEEE 802.1Q Class of Service
cos-val	(Optional) 802.1Q Class of Service value
percent3	Specify queue size in Percentage
perc-q-size	Queue size in percentage of total tx/rx buffer size
dynamic3	Queue size in dynamic alpha factor
alpha	0-1/8, 1-1/4, 2-1/2, 3-3/4, 4-9/8, 5-15/8, 6-3, 7-5, 8-8, 9-14, 10-18
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

