



Q Commands

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qos copy policy-map type network-qos

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

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

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

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

| | |
|--------------|---|
| 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 { 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

| | |
|---------------------|--|
| 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 |
| 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

| | |
|------------|---|
| no | (Optional) Negate a command or set its defaults |
| statistics | statistics |

Command Mode

- /exec/configure

queue-limit

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

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 |
| <i>cos-val</i> | (Optional) 802.1Q Class of Service value |
| percent | Specify queue size in Percentage |
| <i>perc-q-size</i> | Queue size in percentage of total tx/rx buffer size |
| dynamic | Queue size in dynamic alpha factor |
| <i>alpha</i> | 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

| | |
|--------------------|---|
| 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 |
| <i>cos-val</i> | (Optional) 802.1Q Class of Service value |
| percent2 | Specify queue size in Percentage |
| <i>perc-q-size</i> | Queue size in percentage of total tx/rx buffer size |
| dynamic2 | Queue size in dynamic alpha factor |
| <i>alpha</i> | 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

