P Commands

parity (syscli)

[no] **parity** {**even|none|odd**}

Syntax Description	

no Negate a command or set its defaults

parity Set terminal parity

even Even parity

none No parity

odd Odd parity

Command Modes
• /exec/configure/console

parity (syscli)

[no] parity {even|none|odd}

Syntax Description

no	Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

Command Modes

- /exec/configure/com1

passive-interface default (eigrp)

[no] passive-interface default

Syntax Description

no	Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Modes

- /exec/configure/router-eigrp/router-eigrp-vrf-common
- /exec/configure/router-eigrp/router-eigrp-af-common

passive-interface default (isis)

[no] **passive-interface default** *level*

Syntax Description

no	Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command

level	IS-IS level
	
	level-1 value: 1
	    Suppress level-1 PDU
	level-2 value: 2
	    Suppress level-2 PDU
	level-1-2 value: 3
	    Suppress level-1 and level-2 PDU

Command Modes

- /exec/configure/router-isis/router-isis-vrf-common

passive-interface default (ospf)

[no] passive-interface default

Syntax Description

no	Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Modes

- /exec/configure/router-ospf
- /exec/configure/router-ospf/vrf

passive-interface default (ospfv3)

[no] passive-interface default

Syntax Description

no	Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Modes

- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf

passive-interface eigrp

[{**default**|**no**}] {**ip**|**ipv6**} **passive-interface eigrp** *eigrp-ptag*

Syntax Description

default	Undo a command
no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
passive-interface	Suppress routing updates on an interface
eigrp	EIGRP interface configuration commands
eigrp-ptag	Type: string
	pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]*
	antipattern: accounting | all | fsm | graceful-restart | interface | interfaces | internal | neighbor | neighbors | notifications | packets | prefix | route | route-map | shutdown | summary | topology | traffic | transmit | urib | vrf | vrf-events
	length: 20
	Process tag

Command Modes

• /exec/configure/if-igp

password secure-mode

[no] **password** **secure-mode**

Syntax Description

no	Negate a command or set its defaults
password	Password for the user
secure-mode	Enable secure mode for changing password

Command Modes

- /exec/configure

password strength-check

[no] **password** **strength-check**

Syntax Description

no	Negate a command or set its defaults
password	Password for the user
strength-check	Strength check of password

Command Modes

- /exec/configure

passwordpassword

password *password-string*|{**no**|**default**} **password** [*password-string*]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
password	Configure a password for neighbor
password-string	Type: password
	Neighbor password

Command Modes

- /exec/configure/router-bgp/router-bgp-neighbor
- /exec/configure/router-bgp/router-bgp-neighbor-stmp
- /exec/configure/router-bgp/router-bgp-vrf-neighbor
- /exec/configure/router-bgp/router-bgp-template-neighbor
- /exec/configure/router-bgp/router-bgp-prefixneighbor
- /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

pause

[no] **pause** {**delayed-drop** *timeout*|[**buffer-size** *size-in-bytes* **pause-threshold** *xoff-bytes* **resume-threshold** *xon-bytes*] **pfc-cos** *pfc-cos-list*}

Syntax Description

no	Negate a command or set its defaults
pause	PAUSE charecteristics (CBFC) *Available only in the 9500 series.*
delayed-drop	Enable delayed-drop for the CoS
timeout	Type: uinteger min: 1 max: 65535 Timer value for delayed drop
buffer-size	Ingress buffer size in bytes
pause-threshold	Buffer limit for pausing in bytes
resume-threshold	Buffer limit at which to resume in bytes
size-in-bytes	Type: long Ingress buffer for the no-drop class in bytes
xoff-bytes	Type: long Buffer limit at which the port pauses the peer
xon-bytes	Type: long Buffer limit at which the port resumes the peer
pfc-cos	CoS values to assert PFC on
pfc-cos-list	Type: integer-mrange List of class-of-service values

Command Modes

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

peer-gateway

peer-gateway [exclude-vlan *vlan-list*]|no peer-gateway

Syntax Description

no	Negate a command or set its defaults
peer-gateway	Enable L3 forwarding for packets destined to peer's gateway mac-address
exclude-vlan	Specify VLANs to be excluded from peer-gateway functionality *Not available in this release.*
vlan-list	Type: vlan-mrange
	Specify the list of vlans

Command Modes

- /exec/configure/vpc-domain

peer-keepalive destination

peer-keepalive destination *dst-ip* [{[{**source** *src-ip*|**udp-port** *udp-port-num*|**vrf** {*vrf-namevrf-known-name*}|**interval** *interval-ms* **timeout** *time-out*|**tos-byte** *tos-byte-value*|**hold-timeout** *hold-time-out*}]+|[{**source** *src-ip*|**udp-port** *udp-port-num*|**vrf** {*vrf-namevrf-known-name*}|**interval** *interval-ms* **timeout** *time-out*|**tos** {*tos-value*|**min-delay**|**max-throughput**|**max-reliability**|**min-monetary-cost**|**normal**}|**hold-timeout** *hold-time-out*}]+|[{**source** *src-ip*|**udp-port** *udp-port-num*|**vrf** {*vrf-namevrf-known-name*}|**interval** *interval-ms* **timeout** *time-out*|**precedence** {*prec-vlaue*|**network**|**internet**|**critical**|**flash-override**|**flash**|**immediate**|**priority**|**routine**}|**hold-timeout** *hold-time-out*}]+}]

Syntax Description		
peer-keepalive	Keepalive/Hello with peer switch	
destination	specify destination ip address of peer switch	
dst-ip	Type: ipaddr IPv4 address (A.B.C.D) of destination	
source	source interface for hello	
src-ip	Type: ipaddr IPv4 address (A.B.C.D) of source	
udp-port	enter UDP port number used for hello	
udp-port-num	Type: integer min: 1024 max: 65000 udp port number for hellos	
vrf	vrf to be used for hello messages	
vrf-name	Type: string vrf to be used for hellos	
vrf-known-name	Type: vrf Known VRF name	
interval	enter interval in milleseconds	
interval-ms	Type: integer min: 400 max: 10000 Enter interval in milleseconds	
timeout	enter timeout in seconds	

time-out	Type: integer min: 3 max: 20 enter timeout in seconds
precedence	Precedence
prec-vlaue	Type: integer min: 0 max: 7 Precedence value
network	network (7)
internet	internet (6)
critical	critical (5)
flash-override	flash-override (4)
flash	flash (3)
immediate	immediate (2)
priority	priority (1)
routine	routine (0)
tos	Type of Service
tos-value	Type: integer min: 0 max: 15 Enter 4-bit TOS value
min-delay	min-delay (8)
max-throughput	max-throughput (4)
max-reliability	max-reliability (2)
min-monetary-cost	min-monetary-cost (1)
normal	normal (0)
tos-byte	Type of Service Byte
tos-byte-value	Type: integer min: 0 max: 255 Enter 8-bit TOS value
hold-timeout	hold timeout to ignore stale peer alive messages

hold-time-out	Type: integer
	min: 3 max: 10
	Enter hold-timeout in seconds

Command Modes
- /exec/configure/vpc-domain

peer-switch

[no] peer-switch

Syntax Description

no	Negate a command or set its defaults
peer-switch	Enable peer switch on vPC pair switches

Command Modes

- /exec/configure/vpc-domain

perf

perf [{**record** {**context-switch**|**profile**} {**system**|**process** *i0*} [*s1*]|**stop** {**all***s0*}|**list**|**create-archive** *s2*|**remove** {**all***s3*}}]

Syntax Description

no	Negate a command or set its defaults
perf	Run perf tool to collect or process event data
record	Record events to a file for later analysis
stop	Stop a perf record.
list	List recorded datasets
create-archive	Create an archive of dataset for download
remove	Remove recorded dataset(s)
all	Act on all recorded datasets
context-switch	Record context-switch events
profile	Record periodic runtime samples
system	Record events for all processes on all CPUS
process	Record events for a specific process with the given pid
i0	Type: integer min: 1 max: 32768 pid of process to record events
s0	Type: string id of perf record session to stop
s1	Type: string id to use for perf record session
s2	Type: string id of perf dataset to create an archive
s3	Type: string id of perf dataset to remove

Command Modes

- /exec

periodic-inventory notification (callhome)

periodic-inventory **notification** {**interval** *i0*|**timeofday** *s0*}

Syntax Description

periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch
interval	Configure the time period for periodic inventory
i0	Type: integer min: 1 max: 30 Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
s0	Type: string length: 5 Time period in HH:MM format

Command Modes

- /exec/configure/callhome

periodic-inventory notification (callhome)

[no] periodic-inventory notification

Syntax Description

no	Negate a command or set its defaults
periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch

Command Modes

- /exec/configure/callhome

periodic to (aclmgr)

{[*seqno*]|**no**} **periodic** {**Monday**|**Tuesday**|**Wednesday**|**Thursday**|**Friday**|**Saturday**|**Sunday**} *stime* **to** *eday etime*

Syntax Description		
seqno	Type: uinteger	
	min: 1 max: 4294967295	
	Sequence number	
no	Negate a command or set its defaults	
periodic	Periodic time and date	
Monday	Monday	
Tuesday	Tuesday	
Wednesday	Wednesday	
Thursday	Thursday	
Friday	Friday	
Saturday	Saturday	
Sunday	Sunday	
eday	Day of the week	
	Monday value: 1	
	Monday	
	Tuesday value: 2	
	Tuesday	
	Wednesday value: 3	
	Wednesday	
	Thursday value: 4	
	Thursday	
	Friday value: 5	
	Friday	
	Saturday value: 6	
	Saturday	
	Sunday value: 7	
	Sunday	
stime	Type: time	
	Starting time	
to	Ending day and time	

etime	Type: time
	Ending time

Command Modes

- /exec/configure/timerange

periodic to (aclmgr)

{[*seqno*]|**no**} **periodic**
{{**Monday**|**Tuesday**|**Wednesday**|**Thursday**|**Friday**|**Saturday**|**Sunday**}+|**daily**|**weekdays**|**weekend**} *stime*
to *etime*

Syntax Description

seqno	Type: uinteger
	min: 1 max: 4294967295
	Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
daily	Every day of the week
weekdays	Monday thru Friday
weekend	Saturday and Sunday
stime	Type: time
	Starting time
to	Ending day and time
etime	Type: time
	Ending time

Command Modes

- /exec/configure/timerange

permit interface

[no] permit interface *if0*

Syntax Description

no	Negate a command or set its defaults
permit	Permit access to interfaces (applicable if interface policy is 'deny')
interface	Enter the range of interfaces accessible the role
if0	Type: interface-mrange Enter the interface range

Command Modes

- /exec/configure/role/interface

permit vlan

[no] **permit** **vlan** *vlan-mrange*

Syntax Description

no	Negate a command or set its defaults
permit	Permit access to vlans (applicable if vlan policy is 'deny')
vlan	Enter the range of vlans accessible the role
vlan-mrange	Type: vlan-mrange
	Enter the vlan range

Command Modes

- /exec/configure/role/vlan

permit vrf

[no] **permit** **vrf** *vrf-name*

Syntax Description

no	Negate a command or set its defaults
permit	Permit access to vrf (applicable if vrf policy is 'deny')
vrf	Enter the range of vrf accessible the role
vrf-name	Type: vrf
	pattern: [a-zA-Z0-9_][-a-zA-Z0-9_]*
	antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive
	length: 32
	Enter the vrf name

Command Modes

- /exec/configure/role/vrf

permit vsan

[no] **permit** **vsan** *vsan-mrange*

Syntax Description

no	Negate a command or set its defaults
permit	Permit access to vsans (applicable if vsan policy is 'deny')
vsan	Enter the range of vsans accessible the role
vsan-mrange	Type: vsan-mrange
	Enter the vsan range

Command Modes

- /exec/configure/role/vsan

phone-contact

phone-contact *s0*|**no** **phone-contact**

Syntax Description

no	Negate a command or set its defaults
phone-contact	Contact person's phone number
s0	Type: string
	length: 17
	Phone number in international format(such as +1-800-123-4567)

Command Modes
- /exec/configure/callhome

ping

ping [{{*alphanumeric*}|**multicast** *group* **interface** *interface* **[loopback]**} [{**count** {*count*|**unlimited**}|**vrf** {*vrf-namevrf-known-name*}|**packet-size** *packetsize*|**interval** *interval*|**source** {*alphanumeric1*}|**df-bit**|**timeout** *timeout*}]+]

Syntax Description	*numeric*	Type: ipaddr
		IP address of remote system
	vrf	Display per-VRF information
	vrf-name	Type: vrf
		pattern: [-a-zA-Z0-9_:;$#@]*
		antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive
		length: 32
		VRF name
	vrf-known-name	Type: vrf
		Known VRF name

Command Modes

- /exec

ping6

ping6 {{*hosthostname*} [**source** {*host1hostname*}]|**multicast** *group*} [{**count**
{*count*|**unlimited**}|**packet-size** *packetsize*|**vrf** {*vrf-namevrf-known-name*}|**timeout** *timeout*|**interval**
interval}]+

Syntax Description		
	host	Type: ipv6addr
		IPv6 address format: aaaa:bbbb:cccc:dddd:eeee:ffff:gggg:hhhh, aaaa::bbbb
	vrf	Display per-VRF information
	vrf-name	Type: vrf
		pattern: [-a-zA-Z0-9_:;$#@]*
		antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive
		length: 32
		VRF name
	vrf-known-name	Type: vrf
		Known VRF name

Command Modes

- /exec

pinning max-links

pinning max-links *max-flinks*|**no pinning max-links**

Syntax Description

no	Negate the command
pinning	Pinning configurations
max-links	Number of Fabric links
max-flinks	Type: integer min: 1 max: 8 Number of fabric links

Command Modes

- /exec/configure/fex

pinning mode

pinning mode [{static|dynamic|least-used|static-dist}]|no pinning mode

Syntax Description

no	Negate the command
pinning	Pinning configurations
mode	Pinning mode
static	Static pinning mode
dynamic	Dynamic pinning mode
least-used	Least used pinning mode
static-dist	Static uneven pinning mode

Command Modes

- /exec/configure/fex

pipe begin exclude include end -i -x

" | " {**begin|exclude|include|end**} [{**-i|-x**}]+ *expr* [{**next** *num*|**prev** *num*}]+

Syntax Description

**	**	Pipe command output to filter
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
end	End with the line that matches
-i	Ignore case difference when comparing strings
-x	Print only lines where the match is a whole line
expr	Type: string
	antipattern: | \ | -A\ | -B\ | -c\ | -i\ | -n\ | \-v\ | -w\ | -x
	Search for the expression
next	Print <num> lines of context after every matching line
prev	Print <num> lines of context before every matching line
num	Type: integer
	min: 1 max: 999
	Print <num> lines of context

Command Modes

- /output

pipe grep egrep -c -i -n -v -w -x (clic)

" | " {**grep|egrep**} [{**-c|-i|-n|-v|-w|-x***ctx*|**-A** *num*|**-B** *num*}]+ **[--]** *expr*

Syntax Description

|	Pipe command output to filter
grep	Grep
~~egrep~~	Egrep
-c	Print a total count of matching lines only
-i	Ignore case difference when comparing strings
-n	Print each match preceded by its line number
-v	Print only lines that contain no matches for <expr>
-w	Print only lines where the match is a complete word
-x	Print only lines where the match is a whole line
ctx	Type: integer Print <num> lines of context on each side of every match
-A	Print <num> lines of context after every matching line
-B	Print <num> lines of context before every matching line
num	Type: integer min: 1 max: 999 Print <num> lines of context
--	--
expr	Type: string antipattern: |\ | -A\ | -B\ | -c\ | -i\ | -n\ | \-v\ | -w\ | -x Search for the expression

Command Modes

- /output

pipe grep egrep -c -i -n -v -w -x (clic)

" | " {**grep**|**egrep**} [{**-c**|**-i**|**-n**|**-v**|**-w**|**-x***ctx*|**-A** *num*|**-B** *num*}]+ *expr*

Syntax Description

|	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
-c	Print a total count of matching lines only
-i	Ignore case difference when comparing strings
-n	Print each match preceded by its line number
-v	Print only lines that contain no matches for <expr>
-w	Print only lines where the match is a complete word
-x	Print only lines where the match is a whole line
ctx	Type: integer Print <num> lines of context on each side of every match
-A	Print <num> lines of context after every matching line
-B	Print <num> lines of context before every matching line
num	Type: integer min: 1 max: 999 Print <num> lines of context
expr	Type: string antipattern: | \ | -A\ | -B\ | -c\ | -i\ | -n\ | \-v\ | -w\ | -x Search for the expression

Command Modes

- /output

pipe grep egrep count ignore-case line-number invert-match word-exp line-exp

"|" **{grep|egrep}** **[{count|ignore-case|line-number|invert-match|word-exp|line-exp***ctx*|**next** *num*|**prev** *num*}]+ *expr*

Syntax Description

|	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
count	Print a total count of matching lines only
ignore-case	Ignore case difference when comparing strings
line-number	Print each match preceded by its line number
invert-match	Print only lines that contain no matches for <expr>
word-exp	Print only lines where the match is a complete word
line-exp	Print only lines where the match is a whole line
ctx	Type: integer Print <num> lines of context on each side of every match
next	Print <num> lines of context after every matching line
prev	Print <num> lines of context before every matching line
num	Type: integer min: 1 max: 999 Print <num> lines of context
expr	Type: string antipattern: |\\|-A\\|-B\\|-c\\|-i\\|-n\\|\-v\\|-w\\|-x Search for the expression

Command Modes

• /output

pktmgr cache disable

[no] pktmgr cache disable

Syntax Description

no	Negate a command or set its defaults
pktmgr	packet manager
cache	Disable cache
disable	Disable cache

Command Modes

- /exec/configure

pktmgr discard detail direction

[no] pktmgr discard [type *type*] [direction *direction*] [detail]

Syntax Description

no	Negate a command or set its defaults
pktmgr	packet manager
discard	discard CPI-bound output packets
detail	detailed discard info
direction	pm debug-filter direction
direction	pm direction

	inbound value: 1
	      pm inbound debug-filter
	outbound value: 2
	      pm outbound debug-filter
	both value: 0
	      pm bi-directional (default)

type	Driver type
type	Driver type

	inband value: 1
	      Inband
	mgmt value: 3
	      Mgmt

Command Modes

• /exec

plugin-test load

plugin-test **load** *uri0* [[*uri1*] [*uri2*]]

Syntax Description

plugin-test	PLUGIN test
load	PLUGIN test load
uri0	Type: uri Enter image name
uri1	Type: uri Enter image name
uri2	Type: uri Enter image name

Command Modes

- /exec

plugin-test unload

plugin-test unload *s0* [[*s1*] [*s2*]]

Syntax Description

plugin-test	PLUGIN test
unload	plugin test unload
s0	Type: string Enter swid
s1	Type: string Enter swid
s2	Type: string Enter swid

Command Modes

- /exec

police (copp_cli)

police **[cir]** {*cir-val* [*opt_kbps_mbps_gbps_pps_cir*]|**percent** *cir-perc*} [**[bc]** *bc-val* [*opt_kbytes_mbytes_gbytes_bc*]] [**pir** {*pir* [*opt_kbps_mbps_gbps_pps_pir*]|**percent1** *pir-perc*} [**[be]** *be-val* [*opt_kbytes_mbytes_gbytes_be*]]] [**conform** {*opt_drop_transmit_conform*|**set-cos-transmit** *set-cos-val*|**set-dscp-transmit** {*set-dscp-valopt_set_dscp*}|**set-prec-transmit** {*set-prec-valopt_set_prec*}} [**exceed** {*opt_drop_transmit_exceed*|**set dscp1 dscp2 table cir-markdown-map**}] [**violate** {*opt_drop_transmit_violate*|**set1 dscp3 dscp4 table1 pir-markdown-map**}]]

Syntax Description		
	police	Police
	cir	Specify committed information rate
	cir-val	Type: long
		Committed Information Rate in pps
	opt_kbps_mbps_gbps_pps_cir	Units
		pps value: 8 Packets per second
	percent	Specify rate as percentage of interface data-rate *Not available in this release.*
	cir-perc	Type: long
		Percentage
	pir	Specify peak information rate *Not available in this release.*
	pir	Type: long
		Peak Information Rate in bps/kbps/mbps/gbps
	opt_kbps_mbps_gbps_pps_pir	Units
		bps value: 1 Bits per second **kbps value: 2** Kilo Bits per second **mbps value: 3** Mega Bits per second **gbps value: 4** Giga Bits per second **pps value: 8** Packets per second
	percent1	Specify rate as percentage of interface data-rate *Not available in this release.*
	pir-perc	Type: long
		Percentage
	be	Specify extended burst *Not available in this release.*

be-val	Type: long
	Peak Burst Size in bytes/kbytes/mbytes/packets/ms/us
opt_kbytes_mbytes_gbytes_be	Units

	bytes value: 1
	    Bytes
	kbytes value: 2
	    Kilo Bytes
	mbytes value: 3
	    Mega Bytes
	packets value: 8
	    Packets
	ms value: 5
	    Milli seconds
	us value: 6
	    Micro seconds

bc	Specify committed burst
bc-val	Type: long
	Committed Burst Size in packets
opt_kbytes_mbytes_gbytes_bc	Units
	packets value: 8 Packets
conform	Specify a conform action
opt_drop_transmit_conform	Set the action
	transmit value: 1 Transmit the packet
set-cos-transmit	Set conform action cos val *Not available in this release.*
set-cos-val	Type: uinteger
	min: 0 max: 7
	802.1Q Class of Service value
set-dscp-transmit	Set conform action dscp val *Not available in this release.*
set-dscp-val	Type: uinteger
	min: 0 max: 63
	DSCP value

opt_set_dscp	**af11 value: 10**
	    AF11 dscp (001010)
	af12 value: 12
	    AF12 dscp (001100)
	af13 value: 14
	    AF13 dscp (001110)
	af21 value: 18
	    AF21 dscp (010010)
	af22 value: 20
	    AF22 dscp (010100)
	af23 value: 22
	    AF23 dscp (010110)
	af31 value: 26
	    AF31 dscp (011010)
	af32 value: 28
	    AF32 dscp (011100)
	af33 value: 30
	    AF33 dscp (011110)
	af41 value: 34
	    AF41 dscp (100010)
	af42 value: 36
	    AF42 dscp (100100)
	af43 value: 38
	    AF43 dscp (100110)
	cs1 value: 8
	    CS1(precedence 1) dscp (001000)
	cs2 value: 16
	    CS2(precedence 2) dscp (010000)
	cs3 value: 24
	    CS3(precedence 3) dscp (011000)
	cs4 value: 32
	    CS4(precedence 4) dscp (100000)
	cs5 value: 40
	    CS5(precedence 5) dscp (101000)
	cs6 value: 48
	    CS6(precedence 6) dscp (110000)
	cs7 value: 56
	    CS7(precedence 7) dscp (111000)
	default value: 0
	    default dscp (000000)
	ef value: 46
	    EF dscp (101110)

set-prec-transmit	Set conform action precedence val *Not available in this release.*
set-prec-val	Type: uinteger min: 0 max: 7 IP Precedence value

opt_set_prec	**routine value: 0**
	    Routine precedence (0)
	priority value: 1
	    Priority precedence (1)
	immediate value: 2
	    Immediate precedence (2)
	flash value: 3
	    Flash precedence (3)
	flash-override value: 4
	    Flash override precedence (4)
	critical value: 5
	    Critical precedence (5)
	internet value: 6
	    Internetwork control precedence (6)
	network value: 7
	    Network control precedence (7)

exceed	Specify a exceed action *Not available in this release.*

opt_drop_transmit_exceed	Set the action
	
	drop value: 2
	    Drop the packet
	transmit value: 1
	    Transmit the packet

set	Set exceed action to cir-markdown-map *Not available in this release.*
dscp1	Exceed from field
dscp2	Exceed to field
table	To specify table name
cir-markdown-map	Well known markdown map
violate	Specify a violate action
opt_drop_transmit_violate	Set the action **drop value: 2** Drop the packet
set1	Set violate action to pir-markdown-map *Not available in this release.*
dscp3	Violate from field
dscp4	Violate to field
table1	To specify table name
pir-markdown-map	Well known markdown map

Command Modes   • /exec/configure/pmap/class

police (qosmgr)

[no] police {[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-valprec-enum*}|set-dscp-transmit {*dscp-valdscp-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-val1prec-enum1*}|set-dscp-transmit1 {*dscp-val1dscp-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-val2prec-enum2*}|set-dscp-transmit2 {*dscp-val2dscp-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*}]]|aggregate *policer-name*}

Syntax Description

no	Negate a command or set its defaults
police	police
cir	Specify committed information rate
cir-val	Type: long Committed Information Rate value in bps/kbps/mbps/gbps/pps
bc	Specify committed burst
committed-burst	Type: long Committed Burst value in bytes/kbytes/mbytes/ms/us/packets
percent	Specify rate as percentage of interface data-rate
cir-perc	Type: uinteger min: 1 max: 100 Percentage
pir-perc	Type: uinteger min: 1 max: 100 Percentage
pir	Specify peak information rate
pir-val	Type: long Peak Information Rate value in bps/kbps/mbps/gbps/pps

police (qosmgr)

be	Specify extended burst (for 1R3C meter)
extended-burst	Type: long
	Value of extended burst in bytes/kbytes/mbytes/ms/us/packets
bps	Bits per second
kbps	Kilo bits per second
mbps	Mega bits per second
gbps	Giga bits per second
pps	Packets per second
bps2	Bits per second
kbps2	Kilo Bits per second
mbps2	Mega Bits per second
gbps2	Giga Bits per second
pps2	Packets per second
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
us	Micro second(s)
ms	Milli second(s)
packets	Packets
bytes2	Bytes
kbytes2	Kilo Bytes
mbytes2	Mega Bytes
ms2	Milli seconds
us2	Micro seconds
packets2	Packets
conform	Specify a conform action
exceed	Specify a exceed action
violate	Specify a violate action
transmit	Transmit packet

drop1	Drop packet
drop2	Drop packet
set-prec-transmit	Set precedence and send it
set-prec-transmit1	Set precedence and send it
set-prec-transmit2	Set precedence and send it
prec-val	Type: uinteger min: 0 max: 7 Precedence value
prec-val1	Type: uinteger min: 0 max: 7 Precedence value
prec-val2	Type: uinteger min: 0 max: 7 Precedence value

prec-enum	**routine value: 0**
	     Routine precedence (0)
	priority value: 1
	     Priority precedence (1)
	immediate value: 2
	     Immediate precedence (2)
	flash value: 3
	     Flash precedence (3)
	flash-override value: 4
	     Flash override precedence (4)
	critical value: 5
	     Critical precedence (5)
	internet value: 6
	     Internetwork control precedence (6)
	network value: 7
	     Network control precedence (7)

prec-enum1	**routine value: 0** Routine precedence (0) **priority value: 1** Priority precedence (1) **immediate value: 2** Immediate precedence (2) **flash value: 3** Flash precedence (3) **flash-override value: 4** Flash override precedence (4) **critical value: 5** Critical precedence (5) **internet value: 6** Internetwork control precedence (6) **network value: 7** Network control precedence (7)
prec-enum2	**routine value: 0** Routine precedence (0) **priority value: 1** Priority precedence (1) **immediate value: 2** Immediate precedence (2) **flash value: 3** Flash precedence (3) **flash-override value: 4** Flash override precedence (4) **critical value: 5** Critical precedence (5) **internet value: 6** Internetwork control precedence (6) **network value: 7** Network control precedence (7)
set-dscp-transmit	Set dscp and send it
set-dscp-transmit1	Set dscp and send it
set-dscp-transmit2	Set dscp and send it
dscp-val	Type: uinteger min: 0 max: 63 DSCP value
dscp-val1	Type: uinteger min: 0 max: 63 DSCP value

dscp-val2	Type: uinteger
	min: 0 max: 63
	DSCP value

dscp-enum	**af11 value: 10**
	    AF11 dscp (001010)
	af12 value: 12
	    AF12 dscp (001100)
	af13 value: 14
	    AF13 dscp (001110)
	af21 value: 18
	    AF21 dscp (010010)
	af22 value: 20
	    AF22 dscp (010100)
	af23 value: 22
	    AF23 dscp (010110)
	af31 value: 26
	    AF31 dscp (011010)
	af32 value: 28
	    AF32 dscp (011100)
	af33 value: 30
	    AF33 dscp (011110)
	af41 value: 34
	    AF41 dscp (100010)
	af42 value: 36
	    AF42 dscp (100100)
	af43 value: 38
	    AF43 dscp (100110)
	cs1 value: 8
	    CS1(precedence 1) dscp (001000)
	cs2 value: 16
	    CS2(precedence 2) dscp (010000)
	cs3 value: 24
	    CS3(precedence 3) dscp (011000)
	cs4 value: 32
	    CS4(precedence 4) dscp (100000)
	cs5 value: 40
	    CS5(precedence 5) dscp (101000)
	cs6 value: 48
	    CS6(precedence 6) dscp (110000)
	cs7 value: 56
	    CS7(precedence 7) dscp (111000)
	default value: 0
	    default dscp (000000)
	ef value: 46
	    EF dscp (101110)

police (qosmgr)

dscp-enum1	**af11 value: 10**
	AF11 dscp (001010)
	af12 value: 12
	AF12 dscp (001100)
	af13 value: 14
	AF13 dscp (001110)
	af21 value: 18
	AF21 dscp (010010)
	af22 value: 20
	AF22 dscp (010100)
	af23 value: 22
	AF23 dscp (010110)
	af31 value: 26
	AF31 dscp (011010)
	af32 value: 28
	AF32 dscp (011100)
	af33 value: 30
	AF33 dscp (011110)
	af41 value: 34
	AF41 dscp (100010)
	af42 value: 36
	AF42 dscp (100100)
	af43 value: 38
	AF43 dscp (100110)
	cs1 value: 8
	CS1(precedence 1) dscp (001000)
	cs2 value: 16
	CS2(precedence 2) dscp (010000)
	cs3 value: 24
	CS3(precedence 3) dscp (011000)
	cs4 value: 32
	CS4(precedence 4) dscp (100000)
	cs5 value: 40
	CS5(precedence 5) dscp (101000)
	cs6 value: 48
	CS6(precedence 6) dscp (110000)
	cs7 value: 56
	CS7(precedence 7) dscp (111000)
	default value: 0
	default dscp (000000)
	ef value: 46
	EF dscp (101110)

dscp-enum2	**af11 value: 10**	
	AF11 dscp (001010)	
	af12 value: 12	
	AF12 dscp (001100)	
	af13 value: 14	
	AF13 dscp (001110)	
	af21 value: 18	
	AF21 dscp (010010)	
	af22 value: 20	
	AF22 dscp (010100)	
	af23 value: 22	
	AF23 dscp (010110)	
	af31 value: 26	
	AF31 dscp (011010)	
	af32 value: 28	
	AF32 dscp (011100)	
	af33 value: 30	
	AF33 dscp (011110)	
	af41 value: 34	
	AF41 dscp (100010)	
	af42 value: 36	
	AF42 dscp (100100)	
	af43 value: 38	
	AF43 dscp (100110)	
	cs1 value: 8	
	CS1(precedence 1) dscp (001000)	
	cs2 value: 16	
	CS2(precedence 2) dscp (010000)	
	cs3 value: 24	
	CS3(precedence 3) dscp (011000)	
	cs4 value: 32	
	CS4(precedence 4) dscp (100000)	
	cs5 value: 40	
	CS5(precedence 5) dscp (101000)	
	cs6 value: 48	
	CS6(precedence 6) dscp (110000)	
	cs7 value: 56	
	CS7(precedence 7) dscp (111000)	
	default value: 0	
	default dscp (000000)	
	ef value: 46	
	EF dscp (101110)	
set-cos-transmit	Set cos and send it	
set-cos-transmit1	Set cos and send it	
set-cos-transmit2	Set cos and send it	

cos-val	Type: uinteger
	min: 0 max: 7
	new cos value
cos-val1	Type: uinteger
	min: 0 max: 7
	new cos value
cos-val2	Type: uinteger
	min: 0 max: 7
	new cos value
set-discard-class-transmit	Set discard class and send it *Not available in this release.*
set-discard-class-transmit1	Set discard class and send it *Not available in this release.*
set-discard-class-transmit2	Set discard class and send it *Not available in this release.*
disc-class-val	Type: uinteger
	min: 0 max: 63
	new discard-class value
disc-class-val1	Type: uinteger
	min: 0 max: 63
	new discard-class value
disc-class-val2	Type: uinteger
	min: 0 max: 63
	new discard-class value
set-qos-transmit	Set qos-group and send it
set-qos-transmit1	Set qos-group and send it
set-qos-transmit2	Set qos-group and send it
qos-grp-val	Type: uinteger
	min: 0 max: 3
	QoS group value
qos-grp-val1	Type: uinteger
	min: 0 max: 3
	QoS group value

qos-grp-val2	Type: uinteger min: 0 max: 3 QoS group value
set-mpls-exp-imposition-transmit	set-mpls-exp-imposition-transmit *Not available in this release.*
set-mpls-exp-imposition-transmit1	set-mpls-exp-imposition-transmit *Not available in this release.*
set-mpls-exp-imposition-transmit2	set-mpls-exp-imposition-transmit *Not available in this release.*
exp-value-imp	Type: uinteger min: 0 max: 7 MPLS imposition value
exp-value-imp1	Type: uinteger min: 0 max: 7 MPLS imposition value
exp-value-imp2	Type: uinteger min: 0 max: 7 MPLS imposition value
set-mpls-exp-topmost-transmit	Set MPLS topmost label *Not available in this release.*
set-mpls-exp-topmost-transmit1	Set MPLS topmost label *Not available in this release.*
set-mpls-exp-topmost-transmit2	Set MPLS topmost label *Not available in this release.*
exp-value-top	Type: uinteger min: 0 max: 7 MPLS topmost value
exp-value-top1	Type: uinteger min: 0 max: 7 MPLS topmost value
exp-value-top2	Type: uinteger min: 0 max: 7 MPLS topmost value
set	Set a particular value using table or markdown map

exc-frm-field	**dscp value: 2**
	    table map of dscp type (1)
	discard-class value: 4
	    table map of discard-class type (2)

exc-to-field	**dscp value: 2**
	    table map of dscp type (1)
	discard-class value: 4
	    table map of discard-class type (2)

vio-frm-field	**dscp value: 2**
	    table map of dscp type (1)
	discard-class value: 4
	    table map of discard-class type (2)

vio-to-field	**dscp value: 2**
	    table map of dscp type (1)
	discard-class value: 4
	    table map of discard-class type (2)

table	Set using the table-map *Not available in this release.*
table2	Set using the table-map *Not available in this release.*
cir-markdown-map	Markdown map table name for exceed action
pir-markdown-map	Markdown map table name for violate action
aggregate	Choose aggregate policer for current class *Not available in this release.*
policer-name	Type: string length: 40 Enter aggregate-policer name

Command Modes   • /exec/configure/policy-map/class

policy-map

[no] policy-map [type qos] [match-first] *pmap-name-qos*

Syntax Description

no	Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
qos	Qos policy
match-first	Take the action for the first class that matches
pmap-name-qos	Type: string
	antipattern: type | typ | ty | t
	length: 40
	Policy-map name (alphanumeric)

Command Modes

• /exec/configure

policy-map type control-plane

[no] **policy-map type control-plane** *pmap-name*

Syntax Description

no	Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
control-plane	Control-Plane
pmap-name	Type: string antipattern: copp-system-p-+((\[a-zA-Z0-9\]|\[- | . | _\])*) length: 64 Policy-map name (alphanumeric)

Command Modes

- /exec/configure

policy-map type network-qos

[no] **policy-map** **type** **network-qos** *pmap-name-nq*

Syntax Description

no	Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
pmap-name-nq	Type: string
	antipattern: type | typ | ty | t
	length: 40
	Policy-map name

Command Modes

- /exec/configure

policy-map type queuing

[no] policy-map type queuing [match-first] *pmap-name-que*

Syntax Description

no	Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
match-first	Take the action for the first class that matches
pmap-name-que	Type: string
	antipattern: type | typ | ty | t
	length: 40
	Policy-map name (alphanumeric)

Command Modes

- /exec/configure

pong

pong {[**source** *smac*] **destination** *dmac* [**vlan** *vlan-val*] [**count** *count-val*] [**interface** *interface-name*]
[**inject**]|**destination-swid** *swid* **destination-mac** *dmac* [**vlan** *vlan-val*] [**count** *count-val*] [**interface**
interface-name]} [**interval** *interval*] [**timeout** *timeout*] [**cos** *cos-val*] [**details**] [**__readonly__**
TABLE_req_no *req-no packet-lost* **TABLE_pong_time** *hop-no pong-switch-mac*
pong-residence-time-sec pong-residence-time-nsec last-hop rtt-sec rtt-nsec used-vlan total-count
success-count min-rtt max-rtt avg-rtt]

Syntax Description

pong	PONG - Precision Time Protocol(IEEE 1588) based debuging tool
source	source mac EEEE.EEEE.EEEE (default is system-mac)
destination	destination mac
destination-swid	destination-switchid
destination-mac	destination-mac
count	number of packets to send (default is 5)
vlan	vlan (default is 1)
interface	Interface
cos	IEEE 802.1Q class of service
inject	inject
vlan-val	Type: integer min: 1 max: 4094 vlan
cos-val	Type: uinteger min: 0 max: 7 802.1Q Class of Service value
dmac	Type: ethernet Mac address
swid	Type: integer min: 1 max: 4094 Destination switch-id
smac	Type: ethernet Mac address

count-val	Type: integer min: 1 max: 1000 number of packets to send
rtt-sec	Type: uinteger Round trip time Sec
rtt-nsec	Type: uinteger Round trip time nsec
last-hop	Type: uinteger if it is last hop
interface-name	Type: interface Interface name
__readonly__	Read Only
packet-lost	Type: string packet lost message
TABLE_req_no	pong for request number
req-no	Type: integer Req number
TABLE_pong_time	pong residence time table
hop-no	Type: integer Hop number
interval	interval
interval	Type: integer min: 1 max: 5 interval
timeout	timeout (should be greater that interval)
timeout	Type: integer min: 2 max: 10 timeout
details	details - displays alL timestamps instead of residence times
pong-switch-mac	Type: string switch-mac

pong-residence-time-sec	Type: uinteger
	residence time in sec
pong-residence-time-nsec	Type: uinteger
	residence time in nsec
used-vlan	Type: integer
	used vlan
total-count	Type: integer
	total count
success-count	Type: integer
	successful pong
min-rtt	Type: integer
	minimum round trip time
max-rtt	Type: integer
	maximum round trip time
avg-rtt	Type: integer
	average round trip time

Command Modes

- /exec/

pop

pop [*name*]

Syntax Description

pop	pop mode from stack or restore from name
name	Type: string
	name

Command Modes

- /global

port-channel hash-distribution

port-channel hash-distribution *type*|**no port-channel hash-distribution** [*type*]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
hash-distribution	Configure port-channel hash-distribution *Not available in this release.*
type	adaptive/fixed (default adaptive) **adaptive value: 1** port-channel hash-distribution type is adaptive **fixed value: 2** port-channel hash-distribution type is fixed

Command Modes

- /exec/configure/

port-channel limit

port-channel limit|no port-channel limit

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure the maximum number of supported vPCs
limit	limit to 244 vPCs

Command Modes

- /exec/configure/vpc-domain

port-channel load-balance

port-channel load-balance *bndl_hash bndl_sel* [**rotate** *rotate*] **[concatenation]** [{**module** *module*|**fex** {*fex-range*|**all**}}]|**no** **port-channel** **load-balance** [*bndl_hash bndl_sel* [**rotate** *rotate*] **[concatenation]** [{**module** *module*|**fex** {*fex-range*|**all**}}]]

Syntax Description		
no	Negate a command or set its defaults	
port-channel	Configure port channel parameters	
load-balance	Configure port-channel load balance	

bndl_hash	bundle hash
	
	dst value: 1
	    destination based parameters
	src value: 2
	    source based parameters
	src-dst value: 3
	    source-destination based parameters	

bndl_sel	bundle select
	
	mac value: 0
	    MAC
	ip value: 1
	    IP
	l4port value: 2
	    L4 port
	ip-l4port value: 3
	    IP and L4 port
	ip-vlan value: 4
	    IP and VLAN
	ip-l4port-vlan value: 5
	    IP, L4 port and VLAN	

rotate	offset the hash-input	
rotate	Type: integer min: 1 max: 63 offset the hash-input	
concatenation	enable/disable concatenation	
module	Specify a module number *Not available in this release.*	
module	Type: integer Specify a module number	
fex	FEX devices *Not available in this release.*	

fex-range	Type: integer
	min: 100 max: 199
	FEX device range
all	Permit all FEX to configure port-channel LB

Command Modes

• /exec/configure

port-channel load-balance ethernet

port-channel load-balance ethernet *algorithm* [**module** *module*]|**no port-channel load-balance ethernet** [*algorithm* [**module** *module*]]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
ethernet	Ethernet port-channel
module	Specify a module number
module	Type: integer Specify a module number

algorithm	Configure port-channel load balance
	destination-mac value: 1 　Destination MAC address **source-mac value: 2** 　Source MAC address **source-dest-mac value: 3** 　Source & Destination MAC address **destination-ip-vlan value: 4** 　Destination IP address and VLAN **destination-ip-gre value: 17** 　Destination IP GRE key **source-ip-vlan value: 5** 　Source IP address and VLAN **source-ip-gre value: 16** 　Source IP GRE key **source-dest-ip-vlan value: 6** 　Source & Destination IP address and VLAN **destination-port value: 7** 　Destination L4 port **source-port value: 8** 　Source L4 port **source-dest-port value: 9** 　Source & Destination L4 port **dest-ip-port value: 10** 　Destination IP address and L4 port **source-ip-port value: 11** 　Source IP address and L4 port **source-dest-ip-port value: 12** 　Source & Destination IP address and L4 port **dest-ip-port-vlan value: 13** 　Destination IP address, L4 port and VLAN **source-ip-port-vlan value: 14** 　Source IP address, L4 port and VLAN **source-dest-ip-port-vlan value: 15** 　Source & Destination IP address, L4 port and 　VLAN **source-dest-ip-gre value: 18** 　Source & Destination IP GRE key

Command Modes　　　• /exec/configure

port-channel load-balance hash-modulo-f2

[no] port-channel load-balance hash-modulo-f2

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash-modulo-f2	Enable/disable modulo hash for N7K-F248XP cards *Not available in this release.*

Command Modes

- /exec/configure

port-channel load-balance hash enable

[no] port-channel load-balance hash enable

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash	hash enhancement
enable	enable

Command Modes

- /exec/configure

port-channel load-balance resilient

port-channel load-balance resilient|no port-channel load-balance resilient

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
resilient	Configure port-channel load balance resilient mode

Command Modes

- /exec/configure

port-channel load-defer

port-channel **load-defer** *load-defer-timeout*|**no** **port-channel** **load-defer** [*load-defer-timeout*]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-defer	Load defer time interval *Not available in this release.*
load-defer-timeout	Type: integer
	min: 1 max: 1800
	Load defer time interval in seconds (default 120 seconds)

Command Modes

- /exec/configure/

port-channel min-links

port-channel **min-links** *min-links-number*|**no** **port-channel** **min-links** [*min-links-number*]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
min-links	Configure the port-channel min-links
min-links-number	Type: integer
	min: 1 max: 16
	Enter the min-link number

Command Modes

- /exec/configure/if-eth-port-channel-switch
- /exec/configure/if-eth-port-channel
- /exec/configure/if-eth-port-channel-p2p

port-channel port hash-distribution

port-channel port hash-distribution *type*|**no port-channel port hash-distribution** [*type*]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel port hash-distribution
hash-distribution	Configure port-channel port hash-distribution

type	adaptive/fixed (default adaptive)
	
	adaptive value: 1
	    port-channel port hash-distribution type is adaptive
	fixed value: 2
	    port-channel port hash-distribution type is fixed

Command Modes

- /exec/configure/if-eth-port-channel-switch
- /exec/configure/if-eth-port-channel
- /exec/configure/if-eth-port-channel-p2p

port-channel port load-defer

port-channel port load-defer|no port-channel port load-defer

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
port	Configure port-channel load-defer for member ports
load-defer	Configure port-channel load-defer

Command Modes

- /exec/configure/if-eth-port-channel-switch
- /exec/configure/if-eth-port-channel
- /exec/configure/if-eth-port-channel-p2p

port-security stop learning

[no] port-security stop learning

Syntax Description

no	Negate a command or set its defaults
port-security	Port security related command
stop	stop
learning	learning

Command Modes

- /exec

(aclmgr)

{[*seqno*]|**no**} {*_port_op port0_num*|*_port_range port1_num port2_num*}

Syntax Description		
seqno	Type: uinteger min: 1 max: 4294967295 Sequence number	
no	Negate a command or set its defaults	

_port_op	Port operator
	
	lt value: 4
	     Match only packets with a lower port number
	gt value: 5
	     Match only packets with a greater port number
	eq value: 6
	     Match only packets on a given port number
	neq value: 7
	     Match only packets not on a given port number	

_port_range	Port range **range value: 8** Match only packets in the range of port numbers	
port0_num	Type: integer min: 0 max: 65535 Port number	
port1_num	Type: integer min: 0 max: 65535 Port number	
port2_num	Type: integer min: 0 max: 65535 Port number	

Command Modes

• /exec/configure/portgroup

power efficient-ethernet auto

[no] power efficient-ethernet auto

Syntax Description

no	Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
auto	Auto negotiate EEE

Command Modes

- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-base

power efficient-ethernet sleep threshold aggressive

[no] power efficient-ethernet sleep threshold aggressive

Syntax Description

no	Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
sleep	EEE LPI sleep configuration
threshold	EEE LPI sleep threshold
aggressive	Enable/ Disable EEE LPI aggressive sleep mode

Command Modes

- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-base

power redundancy-mode combined

[no] power redundancy-mode combined

Syntax Description

no	Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined

Command Modes

- /exec/configure

power redundancy-mode combined force

[no] power redundancy-mode combined force

Syntax Description

no	Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined
force	Force combined mode without prompting

Command Modes

• /exec/configure

power redundancy-mode insrc-redundant

[no] power redundancy-mode insrc-redundant

Syntax Description

no	Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
insrc-redundant	Configure power supply redundancy mode as grid/AC input source redundant

Command Modes

- /exec/configure

power redundancy-mode ps-redundant

[no] power redundancy-mode ps-redundant

Syntax Description

no	Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
ps-redundant	Configure power supply redundancy mode as PS redundant

Command Modes

- /exec/configure

poweroff

[no] poweroff {module *module|s0* *santa-cruz-range*}

Syntax Description

no	Negate a command or set its defaults
poweroff	Power off a module in the switch *Available only in the 9500 series.*
module	enter a module number
module	Type: integer please enter the module number
s0	Type: xbar-str Power off a specific xbar
santa-cruz-range	Type: integer please enter the xbar number

Command Modes

- /exec/configure

pps (ospf)

pps *pps* *burst*|**no** **pps** [*pps*] [*burst*]

Syntax Description

no	Negate a command or set its defaults
pps	OSPF packets per second
pps	Type: integer min: 0 max: 25000 Packets per second value
burst	Type: integer min: 50 max: 5000 Burst value

Command Modes

- /exec/configure/router-ospf
- /exec/configure/router-ospf/vrf

pps (ospfv3)

pps *pps* *burst*|**no** **pps** [*pps*] [*burst*]

Syntax Description

no	Negate a command or set its defaults
pps	OSPFv3 packets per second
pps	Type: integer min: 0 max: 25000 Packets per second value
burst	Type: integer min: 50 max: 5000 Burst value

Command Modes

- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf

preempt (glbp)

[no] preempt [delay minimum *min-delay*]

Syntax Description

no	Negate a command or set its defaults
preempt	Overthrow lower priority designated routers
delay	Wait before preempting
minimum	Delay atleast this long
min-delay	Type: integer
	min: 0 max: 3600
	Number of seconds for minimum delay

Command Modes

- /exec/configure/if-eth-any/glbp

preempt (vrrp_mgr)

[no] preempt

Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority master

Command Modes

- /exec/configure/if-eth-any/vrrp

preempt delay minimum reload

preempt delay minimum *min-delay* **reload** *rel-delay* **sync** *sync-delay*|**preempt delay reload** *rel-delay* **minimum** *min-delay* **sync** *sync-delay*|**preempt delay sync** *sync-delay* **minimum** *min-delay* **reload** *rel-delay*|**preempt delay reload** *rel-delay* **sync** *sync-delay* **minimum** *min-delay*|**preempt delay sync** *sync-delay* **reload** *rel-delay* **minimum** *min-delay*|**preempt delay minimum** *min-delay* **sync** *sync-delay* **reload** *rel-delay*|**preempt delay reload** *rel-delay* **sync** *sync-delay*|**preempt delay sync** *sync-delay* **reload** *rel-delay*|**preempt delay minimum** *min-delay* **sync** *sync-delay*|**preempt delay sync** *sync-delay* **minimum** *min-delay*|**preempt delay minimum** *min-delay* **reload** *rel-delay*|**preempt delay reload** *rel-delay* **minimum** *min-delay*|**preempt delay minimum** *min-delay*|**preempt delay reload** *rel-delay*|**preempt delay sync** *sync-delay*|**preempt**|**no preempt**|**no preempt delay** [{**minimum** [*min-delay*] [{[**reload** [*rel-delay*]] [**sync** [*sync-delay*]]|[**sync** [*sync-delay*]] [**reload** [*rel-delay*]]}]|**reload** [*rel-delay*] [{[**minimum** [*min-delay*]] [**sync** [*sync-delay*]]|[**sync** [*sync-delay*]] [**minimum** [*min-delay*]]}]|**sync** [*sync-delay*] [{[**reload** [*rel-delay*]] [**minimum** [*min-delay*]]|[**minimum** [*min-delay*]] [**reload** [*rel-delay*]]}]}]

Syntax Description

no	Negate a command or set its defaults
preempt	Overthrow lower priority Active routers
delay	Wait before preempting
minimum	Delay at least this long
min-delay	Type: integer
	min: 0 max: 3600
	Number of seconds for minimum delay
reload	Delay after reload
rel-delay	Type: integer
	min: 0 max: 3600
	Number of seconds for reload delay
sync	Wait for IP redundancy clients
sync-delay	Type: integer
	min: 0 max: 3600
	Number of seconds for sync delay

Command Modes

- /exec/configure/if-eth-any/hsrp_ipv4
- /exec/configure/if-eth-any/hsrp_ipv6

priority-flow-control mode

[no] priority-flow-control mode {auto|on|off} [force]

Syntax Description

no	Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
mode	PFC Mode
auto	Set Auto Mode
on	Force PFC to On
off	Force PFC to Off
force	Force apply PFC config

Command Modes

- /exec/configure/if-switching
- /exec/configure/if-routing
- /exec/configure/if-ethernet-m

priority (glbp)

priority *pri-value*|**no   priority**

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
pri-value	Type: integer
	min: 1 max: 255
	Priority Value

Command Modes

• /exec/configure/if-eth-any/glbp

priority (hsrp_engine)

priority *priority* [**forwarding-threshold lower** *lower-value* **upper** *upper-value*]|**no priority**
[**forwarding-threshold**]

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
priority	Type: integer min: 0 max: 255 Priority value
forwarding-threshold	Set forwarding threshold
lower	Set lower threshold value
lower-value	Type: integer min: 0 max: 255 Lower threshold value
upper	Set upper threshold value
upper-value	Type: integer min: 0 max: 255 Upper threshold value

Command Modes

- /exec/configure/if-eth-any/hsrp_ipv4
- /exec/configure/if-eth-any/hsrp_ipv6

priority (qosmgr)

[no] priority [level *value*]

Syntax Description

no	Negate a command or set its defaults
priority	Configure traffic class priority
level	Specify level of priority
value	Type: uinteger
	min: 1 max: 4
	Value of level, lower the number higher the priority

Command Modes

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

priority (vrrp_mgr)

priority *priority_value* [**forwarding-threshold lower** *lower-value* **upper** *upper-value*]|**no priority** [**forwarding-threshold**]

Syntax Description

no	Negate a command or set its defaults
priority	Configure the vr priority
priority_value	Type: integer min: 1 max: 254 Configure the vr priority
forwarding-threshold	Set forwarding threshold
lower	Set lower threshold value
lower-value	Type: integer min: 1 max: 254 Lower threshold value
upper	Set upper threshold value
upper-value	Type: integer min: 1 max: 254 Upper threshold value

Command Modes

- /exec/configure/if-eth-any/vrrp

private-vlan

[no] **private-vlan** *pvlan-type*

Syntax Description

no	Negate a command or set its defaults
private-vlan	Configure a private VLAN
pvlan-type	**isolated value: 1** Configure the VLAN as isolated private VLAN **community value: 2** Configure the VLAN as community private VLAN **primary value: 3** Configure the VLAN as primary private VLAN

Command Modes

- /exec/configure/vlan

private-vlan association add remove

private-vlan association [{**add**|**remove**}] *secondary_vlans*|**no private-vlan association** [*secondary_vlans*]

Syntax Description

private-vlan	Configure a private VLAN
association	Configure association between private VLANs
add	Add a VLAN to private VLAN list
remove	Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
secondary_vlans	Type: vlan-mrange
	VLAN IDs of the private VLANs to be configured

Command Modes

- /exec/configure/vlan

private-vlan mapping add remove

private-vlan **mapping** [{**add**|**remove**}] *secondary_vlans*|**no** **private-vlan** **mapping** [*secondary_vlans*]

Syntax Description

private-vlan	Configure a private VLAN
mapping	Set the private VLAN interface mapping
add	Add a VLAN to private VLAN list
remove	Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
secondary_vlans	Type: vlan-mrange
	Secondary VLAN IDs of the private VLAN interface mapping

Command Modes

• /exec/configure/if-vlan

private-vlan release resource

private-vlan **release** **resource** {[**vlan** *vlan-id*]|**global**}

Syntax Description

private-vlan	Show information about private VLAN
release	release
resource	resource
vlan	VLAN status
global	global rid
vlan-id	Type: vlan-mrange
	VLAN IDs of the private VLANs to be configured

Command Modes

- /exec

private-vlan synchronize

private-vlan synchronize

Syntax Description

private-vlan	Set private-vlan synchronization
synchronize	Synchronize vlans

Command Modes

- /exec/configure/spanning-tree/mst/configuration

promiscuous-mode

promiscuous-mode {**off**|**on**}|**no** **promiscuous-mode** [{**off**|**on**}]

Syntax Description

no	Negate a command or set its defaults
promiscuous-mode	Configure promiscuous mode for the port
off	Disable promiscuous mode
on	Enable promiscuous mode

Command Modes

- /exec/configure/if-port-channel
- /exec/configure/if-ethernet-all
- /exec/configure/if-eth-base

protocol-down

protocol-down

Syntax Description

protocol-down	Mark protocol state down

Command Modes

- /exec/configure/if-overlay
- /exec/configure/if-te

protocol-reinit

protocol-reinit

Syntax Description	**protocol-reinit** Reinitialize the interface

Command Modes	• /exec/configure/if-overlay
	• /exec/configure/if-te

protocol-up

protocol-up

Syntax Description

protocol-up	Mark protocol state up

Command Modes

- /exec/configure/if-overlay
- /exec/configure/if-te

protocol shutdown (ospf)

[no] protocol shutdown

Syntax Description

no	Negate a command or set its defaults
protocol	OSPF protocol
shutdown	Shutdown the OSPF protocol instance

Command Modes

- /exec/configure/router-ospf
- /exec/configure/router-ospf/vrf

protocol shutdown (ospfv3)

[no] protocol shutdown

Syntax Description

no	Negate a command or set its defaults
protocol	OSPF protocol
shutdown	shutdown the OSPF protocol instance

Command Modes

- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf

publish-event sub-system type

publish-event sub-system *sub-system-id* **type** *event-type* [**arg1** *data1*] [**arg2** *data2*] [**arg3** *data3*] [**arg4** *data4*]

Syntax Description

publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
sub-system-id	Type: uinteger Sub-system ID value
type	Event type value
event-type	Type: uinteger Event type value
arg1	User specified data to be passed when the event is published
data1	Type: string User specified data value
arg2	User specified data to be passed when the event is published
data2	Type: string User specified data value
arg3	User specified data to be passed when the event is published
data3	Type: string User specified data value
arg4	User specified data to be passed when the event is published
data4	Type: string User specified data value

Command Modes

• /exec

purge ip route

purge ip route [**vrf** {*vrf-name**vrf-known-name**vrf-all*}] *all*

Syntax Description		
purge	Purge	
ip	IPv4	
route	Purge routing information	
vrf	VRF	
vrf-name	Type: vrf	
	pattern: [-a-zA-Z0-9_:;$#@]*	
	antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive	
	length: 32	
	VRF name	
vrf-known-name	Type: vrf	
	Known VRF name	
<vrf-all>	Display information for all VRFs	
<all>	Purge all routes	

Command Modes

- /exec

purge ipv6 route

purge **ipv6** **route** [**vrf** {*vrf-namevrf-known-namevrf-all*}] *all*

Syntax Description

purge	Purge
ipv6	IPv6
route	Purge routing information
vrf	VRF
vrf-name	Type: vrf
	pattern: [-a-zA-Z0-9_.:;$#@]*
	antipattern: vrf | detail | interface | definition | context | forwarding | member | all | l2-vrf | topology | passive
	length: 32
	VRF name
vrf-known-name	Type: vrf
	Known VRF name
<vrf-all>	Display information for all VRFs
<all>	Purge all routes

Command Modes

- /exec

purge module running-config

purge module *module* **running-config**

Syntax Description

purge	Deletes unused data *Available only in the 9500 series.*
module	Purge configuration for non-existent modules
module	Type: integer
	Enter module number
running-config	purge running configuration for non-existent modules

Command Modes

- /exec

push

push [*name*]

Syntax Description

push	push current mode to stack or save it under name
name	Type: string
	name

Command Modes

- /global

pwd

pwd

Syntax Description

pwd	View current directory

Command Modes

- /exec

python

python [*uri* [*pyargs*]+]

Syntax Description

python	run a python command/script, or enter python mode (if no arg)
uri	Type: uri
	path to a python file
pyargs	Type: string
	python command line arguments (maximum 32)

Command Modes

- /exec