



B Commands

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backoff

backoff <initial-backoff> <maximum-backoff> | no backoff

Syntax Description

no	Negate a command or set its defaults
backoff	Set LDP session backoff parameters
<i>initial-backoff</i>	Initial session backoff time (seconds)
<i>maximum-backoff</i>	Maximum session backoff time (seconds)

Command Mode

- /exec/configure/ldp

backup-bw

backup-bw { <kbps> } | no backup-bw

Syntax Description

no	Negate a command or set its defaults
backup-bw	Represents bw for Fast Reroute backup
<i>kpbs</i>	Amount of allocatable backup bw, any lsp may use

Command Mode

- /exec/configure/if-te

bandwidth

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub

bandwidth

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

Command Mode

- /exec/configure/if-any-tunnel

bandwidth

```
[no] bandwidth { { xxx <bw-value> [ bps | kbps | mbps | gbps ] | percent <percentage> } | { remaining percent <rem-perc> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
xxx	xxx
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

Command Mode

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

bandwidth

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

Command Mode

- /exec/configure/if-vlan-common

bandwidth

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
inherit	Specify that bandwidth is inherited

Command Mode

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

bandwidth

[no] bandwidth { { <bw-value> [bps | kbps | mbps | gbps] | percent <percentage> } | { remaining percent <rem-perc> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

Command Mode

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

bandwidth

[no] bandwidth | bandwidth { <bw> }

Syntax Description

no	Negate a command or set its defaults
bandwidth	Specify LSP bandwidth
<i>bw</i>	bandwidth requirement in kbps

Command Mode

- /exec/configure/te/lsp-attr

bandwidth

[no] bandwidth | bandwidth { <kbps> }

Syntax Description

no	Negate a command or set its defaults
bandwidth	tunnel bandwidth requirement
<i>kbps</i>	bandwidth requirement in kbps

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

bandwidth kbps mbps gbps

```
{ { bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { dscp <dscp_val> } } | { no
{ bandwidth | dscp } }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Bandwidth per flow
<i>val_kbps</i>	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
<i>val_mbps</i>	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
<i>val_gbps</i>	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps
dscp	DSCP per flow
<i>dscp_val</i>	Per Flow DSCP

Command Mode

- /exec/configure/nbm-flow-policy/attr

bandwidth kbps mbps gbps

```
{ { bandwidth { <val_kbps> kbps | <val_mbps> mbps | <val_gbps> gbps } } | { dscp <dscp_val> } } | { no  
{ bandwidth | dscp } }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Bandwidth per flow
<i>val_kbps</i>	Per Flow Bandwidth in Kbps
kbps	Bandwidth value in Kbps
<i>val_mbps</i>	Per Flow Bandwidth in Mbps
mbps	Bandwidth value in Mbps
<i>val_gbps</i>	Per Flow Bandwidth in Gbps
gbps	Bandwidth value in Gbps
dscp	DSCP per flow
<i>dscp_val</i>	Per Flow DSCP

Command Mode

- /exec/configure/nbm-vrf/nbm-flow-policy/attr

banner exec

```
{ banner exec <lineNo> } | { no banner exec }
```

Syntax Description

no	Negate a command or set its defaults
banner	Configure banner message
exec	Configure banner exec message
<i>lineNo</i>	Delimiter char (first char is delimiter char) followed by message ending with delimiter

Command Mode

- /exec/configure

banner motd

{ banner motd <line> } | { no banner motd }

Syntax Description

no	Negate a command or set its defaults
banner	Configure banner message
motd	Configure banner motd message
<i>line</i>	Delimiter char (Very first char is delimiter char) followed by message ending with delimiter

Command Mode

- /exec/configure

bcm-shell module

bcm-shell module <module> <quoted-cmd>

Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number
<i>quoted-cmd</i>	the command to run on bcm-shell

Command Mode

- /exec

bcm-shell module

bcm-shell module <module>

Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number

Command Mode

- /exec

beacon

[no] beacon

Syntax Description

no	(Optional) Negate a command or set its defaults
beacon	Disable/enable the beacon for an interface

Command Mode

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

begin exclude include end

| { 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	(Optional) Ignore case difference when comparing strings
-x	(Optional) Print only lines where the match is a whole line
<i>expr</i>	Search for the expression
next	(Optional) Print <num> lines of context after every matching line
prev	(Optional) Print <num> lines of context before every matching line
<i>num</i>	(Optional) Print <num> lines of context

Command Mode

- /output

bestpath

[no] bestpath { always-compare-med | med { missing-as-worst | non-deterministic | confed } | compare-routerid | compare-neighborid | cost-community ignore | as-path { multipath-relax | ignore } | igp-metric ignore }

Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
always-compare-med	Compare MED on paths from different AS
med	MED
missing-as-worst	Treat missing MED as highest MED
non-deterministic	Not always pick the best-MED path among paths from same AS
compare-routerid	Compare router-id for identical EBGp paths
compare-neighborid	When more paths available than max path config, use neighborid tiebreaker
cost-community	cost community
ignore	Ignore cost communities in bestpath selection
confed	Compare MED only from paths originated from within a confederation
as-path	AS-Path
multipath-relax	Relax AS-Path restriction when choosing multipaths
ignore	Ignore AS-Path during bestpath selection
igp-metric	IGP metric for next-hop
ignore	Ignore IGP metric for next-hop during bestpath selection

Command Mode

- /exec/configure/router-bgp/vrf-cmds

bfd-app session auto-expiry timeout

`bfd-app session auto-expiry { timeout <millis> | now }`

Syntax Description

<code>bfd-app</code>	BFD application commands
<code>auto-expiry</code>	auto expiry start/end
<code>session</code>	session operation
<code>timeout</code>	timeout after
<code>now</code>	expiry reached, dont wait to timeout, do them now
<i>millis</i>	milli-secs later

Command Mode

- `/exec/configure`

bfd-app session remove

```
bfd-app session remove { all | intf <intf_id> | iod <iod_id> }
```

Syntax Description

bfd-app	BFD application commands
session	session operation
remove	Remove sessions
all	Remove all sessions
intf	Remove all sessions on interface
<i>intf_id</i>	Interface Id
iod	interface iod
<i>iod_id</i>	Interface iod in hex

Command Mode

- /exec/configure

bfd-app session src-ip dest intf

```
[no] bfd-app session src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> } { intf <intf_id> | iod <iod_id> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value
iod	interface iod
<i>iod_id</i>	Interface iod in hex
intf	interface
<i>intf_id</i>	Interface Id

Command Mode

- /exec/configure

bfd

[no] bfd [ipv4 | ipv6]

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd

[no | default] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable IPv4 BFD on all ISIS interfaces

Command Mode

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

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable IPv4 BFD on all ISIS interfaces

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv4 /exec/configure/router-isis/router-isis-af-ipv6

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

Command Mode

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

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all EIGRP interfaces

Command Mode

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

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

Command Mode

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

bfd authentication interop

bfd authentication interop | no bfd authentication interop

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
authentication	Configure BFD authentication parameters
interop	Allows keys to be sent in network format to interop with non N3k/N9K switches

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd authentication key-id key

```
bfd [ { ipv4 | ipv6 } ] authentication <auth_name> key-id <key_id_val> { key <key_val> | hex-key <h_key_val> } | no bfd [ { ipv4 | ipv6 } ] authentication
```

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
authentication	Configure BFD authentication parameters
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions
<i>auth_name</i>	auth algorithm
key-id	Key ID to use in BFD frames
<i>key_id_val</i>	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
<i>key_val</i>	SHA1 secret value
<i>h_key_val</i>	SHA1 secret value. e.g ABCD123

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd echo-interface

[no] bfd echo-interface <ifindex>

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo-interface	Configure interface used for bfd echo frames
<i>ifindex</i>	loopback interface

Command Mode

- /exec/configure

bfd echo-rx-interval

bfd [ipv4 | ipv6] echo-rx-interval <intv> | no bfd [ipv4 | ipv6] echo-rx-interval

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
echo-rx-interval	Configure BFD session echo rx interval
<i>intv</i>	Echo Rx Interval in milliseconds

Command Mode

- /exec/configure /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd echo

[no] bfd [{ ipv4 | ipv6 }] echo

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo	Configure Echo function for all address families
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd interval

[no] bfd [ipv4 | ipv6] interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
<i>int_mult</i>	(Optional) Detect Multiplier

Command Mode

- /exec/configure

bfd interval

[no] bfd [ipv4 | ipv6] interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
<i>int_mult</i>	(Optional) Detect Multiplier

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd interval min_rx multiplier

bfd [ipv6 | ipv4] interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>

Syntax Description

bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd interval min_rx multiplier

bfd [ipv6 | ipv4] interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>

Syntax Description

bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure

bfd move-session target

bfd move-session target <module> [<discr>]

Syntax Description

bfd	BFD commands
move-session	move a session
target	Target module
<i>module</i>	Module number
<i>discr</i>	(Optional) Session discriminator

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd multihop authentication key-id key

```
bfd multihop authentication <auth_name> key-id <key_id_val> { key <key_val> | hex-key <h_key_val> } |
{ no | default } bfd multihop authentication [ <auth_name> key-id <key_id_val> { key <key_val> | hex-key
<h_key_val> } ]
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor
multihop	For Multihop sessions
authentication	Configure BFD authentication parameters
<i>auth_name</i>	auth algorithm
key-id	Key ID to use in BFD frames
<i>key_id_val</i>	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
<i>key_val</i>	SHA1 secret value
<i>h_key_val</i>	SHA1 secret value. e.g ABCD123

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd multihop hosting-linecard add module

[no] bfd multihop hosting-linecard add module <module>

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
multihop	Configure BFD Multihop session interval parameters
hosting-linecard	Add the linecard to hosting-linecard for multihop sessions
add	Add the linecard to hosting-linecard list for multihop sessions
module	Linecard or module number
<i>module</i>	Module number

Command Mode

- /exec/configure

bfd multihop hosting-linecard add module

bfd multihop hosting-linecard add module <module>

Syntax Description

bfd	BFD commands
multihop	Configure BFD Multihop session interval parameters
hosting-linecard	Add the linecard to hosting-linecard for multihop sessions
add	Add the linecard to hosting-linecard list for multihop sessions
module	Linecard or module number
<i>module</i>	Module number

Command Mode

- /exec/configure

bfd multihop interval

[no] bfd multihop interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
multihop	Configure BFD Multihop session interval parameters
interval	Configure BFD multihop session interval parameters
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd multihop sessions
<i>int_mult</i>	(Optional) Detect Multiplier

Command Mode

- /exec/configure

bfd multihop interval min_rx multiplier

bfd multihop interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>

Syntax Description

bfd	BFD commands
multihop	Configure BFD Multihop session interval parameters
interval	Configure BFD multihop session interval parameters
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd multihop sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure

bfd multihop interval min_rx multiplier

bfd multihop interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult> | { no | default } bfd
 multihop interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor
multihop	For Multihop sessions
interval	Configure BFD session interval parameters
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd neighbor src-ip dest

[no] bfd neighbor src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
neighbor	BFD neighbor configuration commands (simulate client)
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd optimize subinterface

[no] bfd [ipv4] optimize subinterface

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
optimize	optimize
subinterface	optimize subinterfaces
ipv4	(Optional) ipv4 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd per-link

[no] bfd [{ ipv4 | ipv6 }] per-link

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
per-link	Run BFD sessions on each port-channel link
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

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

bfd session-store remove client

```
bfd session-store remove <hex_disc> client <int_cl>
```

Syntax Description

bfd	BFD commands
session-store	session store operation
remove	Remove session from session store
<i>hex_disc</i>	Session discriminator
client	Client Id
<i>int_cl</i>	client

Command Mode

- /exec/configure

bfd session-store source-ip dest-ip intf client

```
bfd session-store source-ip <src_ip> dest-ip <dest_ip> intf <intf_id> client <int_cl>
```

Syntax Description

bfd	BFD commands
session-store	Session store operation
source-ip	source ip
<i>src_ip</i>	source ip value
dest-ip	dest ip
<i>dest_ip</i>	source ip value
intf	interface
<i>intf_id</i>	Interface Id
client	Client Id
<i>int_cl</i>	client

Command Mode

- /exec/configure

bfd session state state

bfd session state <hex_disc> state <state_up_down>

Syntax Description

bfd	BFD commands
session	session related test
state	Change session state
<i>hex_disc</i>	Session discriminator
state	Change to state
<i>state_up_down</i>	UP/DOWN

Command Mode

- /exec/configure

bfd slow-timer

bfd [{ ipv4 | ipv6 }] slow-timer <int_slow_timer> | no bfd [{ ipv4 | ipv6 }] slow-timer

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
slow-timer	Configure slow mode timer for sessions
<i>int_slow_timer</i>	Slow rate timer in milliseconds
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure

bfd startup-timer bfd startup-timer

bfd startup-timer <int_startup_timer> | [no] bfd startup-timer

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
startup-timer	Configure Delayed Start Up timer for sessions
<i>int_startup_timer</i>	Start Up timer in seconds

Command Mode

- /exec/configure

bfshell

bfshell

Syntax Description

bfshell	bfshell
---------	---------

Command Mode

- /exec

bfshell cmd

bfshell cmd <cmd>

Syntax Description

bfshell	bfshell
cmd	Specify command
<i>cmd</i>	Quoted commands to be exec

Command Mode

- /exec

bfshell module

bfshell module <module>

Syntax Description

bfshell	bfshell
module	Select module
<i>module</i>	Module number

Command Mode

- /exec

bfshell module cmd

bfshell module <module> cmd <cmd>

Syntax Description

bfshell	bfshell
module	Select module
cmd	Specify command
<i>module</i>	Module number
<i>cmd</i>	Quoted commands to be exec

Command Mode

- /exec

binary-location

[no] binary-location <source-uri>

Syntax Description

no	(Optional) Negate a command or set its defaults
binary-location	the location binaries are downloaded from
<i>source-uri</i>	Location for restoration to pick up binaries

Command Mode

- /exec/configure/personality

bind interface

[no] bind interface <interface-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
bind	Bind the VFC
interface	Bind the VFC to an interface
<i>interface-name</i>	Interface name

Command Mode

- /exec/configure/if-vfc

bind mac-address

[no] bind mac-address <mac0>

Syntax Description

no	(Optional) Negate a command or set its defaults
bind	Bind the VFC
mac-address	Bind the VFC to a MAC Address
<i>mac0</i>	Enter MAC address in dotted hex format

Command Mode

- /exec/configure/if-vfc

blink

```
[no] blink { module <module> | <s0> <santa-cruz-range> | chassis | powersupply <psnum> | fan <fan_num>
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
blink	blink locator led
module	blink module led
<i>module</i>	please enter the module number
<i>s0</i>	blink a specific xbar
<i>santa-cruz-range</i>	please enter the xbar number
chassis	blink chassis led
powersupply	blink powersupply led
<i>psnum</i>	powersupply number
fan	blink Fan led
<i>fan_num</i>	fan number

Command Mode

- /exec

bloggerd live-process-core sap

bloggerd live-process-core sap <sap>

Syntax Description

bloggerd	Blogger commands
live-process-core	Dump the core of the live-process
sap	Dump core for a particular SAP
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

Command Mode

- /exec

bloggerd log-dump all

```
[no] bloggerd log-dump { all | [ module <module> ] sap <sap_num> [ vdc <new_id> | vdc-all ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-dump	Dump Log Buffer
all	Log Dump for ALL services across ALL modules in the switch on reaching threshold
module	(Optional) Enable Buffer Dump for particular Module
<i>module</i>	(Optional) Enter a valid Module Number
sap	Enable Buffer Dump for a particular sap
<i>sap_num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
vdc	(Optional) Enable Log Dump for a particular VDC. DEFAULT_VDC by default
<i>new_id</i>	(Optional) Enter a valid VDC ID
vdc-all	(Optional) Enable Log Dump for the sap on ALL VDCs

Command Mode

- /exec/configure

bloggerd log-dump once log-buffer sap event-history

```
bloggerd log-dump once log-buffer sap <sap> event-history { errors | msgs | { app-specific <uuid> instance
<buffer-instance> } }
```

Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
log-buffer	Dump Log buffer
sap	Enable Buffer Dump for a particular sap
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
event-history	Event-History Buffers
errors	event-history errors
msgs	event-history messages
app-specific	application specific event history
<i>uuid</i>	Enter valid app's UUID
instance	Buffer Instance of the App-Specific SDWrap buffer
<i>buffer-instance</i>	Enter a valid SDWrap buffer instance for the app

Command Mode

- /exec

bloggerd log-dump once pss uuid

bloggerd log-dump once pss uuid <uuid>

Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
pss	Dump PSS
uuid	Dump PSS for a particular UUID
<i>uuid</i>	Enter a app's UUID

Command Mode

- /exec

bloggerd log-throttle

```
[no] bloggerd log-throttle [ min-rollover <min-rollover> max-rollover-per-minute <max-rollover-per-minute> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-throttle	Enable Log Dump Throttling for all NxOS services
min-rollover	(Optional) Number of minimum buffer rollovers before starting to throttle. Default: 5
<i>min-rollover</i>	(Optional) Enter the minimum number of roll-overs before throttling log-dump. Default: 5
max-rollover-per-minute	(Optional) Maximum allowed buffer rollovers per minute. Default: 1
<i>max-rollover-per-minute</i>	(Optional) Enter the maximum allowed roll-overs per minute before throttling. Default: 1

Command Mode

- /exec/configure

bloggerd log-transfer

[no] bloggerd log-transfer

Syntax Description

no	Negate a command or set its defaults
bloggerd	Blogger commands
log-transfer	Configure log transfer

Command Mode

- /exec/configure

bloggerd log-transfer

```
bloggerd log-transfer { <ip-addr> <path> | logflash }
```

Syntax Description

bloggerd	Blogger commands
log-transfer	Configure log transfer
<i>ip-addr</i>	IP addr of logging server
<i>path</i>	Path in tftp server to store logs. Eg: logOutput
logflash	Move all log-files to logflash

Command Mode

- /exec/configure

bloggerd parse log-buffer file

```
bloggerd parse log-buffer { file | directory } <uri0> [ dsf_table <uri1> ]
```

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
directory	Enter path of directory
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)
dsf_table	(Optional) Enter dsf table file name.
<i>uri1</i>	(Optional) Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bloggerd parse log-buffer file sap

bloggerd parse log-buffer file <uri0> sap <sap-num>

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file (Eg: /bootflash/abc)
sap	SAP of the application which should parse the file
<i>sap-num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

Command Mode

- /exec

bloggerd parse pss file

bloggerd parse pss file <uri0>

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
pss	Parse a dumped PSS File
file	Enter file name (without pss extensions). Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bmp-activate-server

bmp-activate-server <server-number> | { no | default } bmp-activate-server <server-number>

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
bmp-activate-server	Activate BMP monitoring for the peer
<i>server-number</i>	Server Id

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bmp-server

[no] bmp-server <server-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
bmp-server	Configure bmp-server
<i>server-number</i>	server number value

Command Mode

- /exec/configure/router-bgp

boot-install nxos

```
{ boot-install nxos <uri0> | no boot-install nxos [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot-install	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter NXOS image uri

Command Mode

- /exec/configure

boot-order

boot-order <new_id>

Syntax Description

boot-order	The order at which a vdc will boot up. VDCs at the same level will be started parallelly
<i>new_id</i>	The order at which a vdc will boot up. VDCs at the same level will be started parallelly

Command Mode

- /exec/configure/vdc

boot

```
{ boot <s0> <uri0> [ module [ <module> ] ] | no boot <s0> [ <uri0> [ module [ <module> ] ] ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
<i>s0</i>	use [show boot variables] for list of keywords
<i>uri0</i>	Enter module image uri
module	(Optional) Enter module number for the image
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec/configure

boot aci

```
{ boot aci <uri0> | no boot aci [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
aci	Configure ACI image
<i>uri0</i>	Enter ACI image uri

Command Mode

- /exec/configure

boot auto-copy

[no] boot auto-copy

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot variables
auto-copy	Turns on/off autocopy of bootvar images

Command Mode

- /exec/configure

boot kickstart

```
{ boot kickstart <uri0> | no boot kickstart [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
kickstart	Configure kickstart image
<i>uri0</i>	Enter Kickstart image uri

Command Mode

- /exec/configure

boot mode docker_cluster

[no] boot mode docker_cluster [dhcp <option>]

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot mode
mode	boot mode
docker_cluster	Turns on/off docker_cluster mode
dhcp	(Optional) Custom DHCP option
<i>option</i>	(Optional) Option, default is 250

Command Mode

- /exec/configure

boot mode docker_standalone

[no] boot mode docker_standalone

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot mode
mode	boot mode
docker_standalone	Turns on/off docker_standalone mode (for internal use only)

Command Mode

- /exec/configure

boot mode lxc

[no] boot mode lxc

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot mode
mode	boot mode
lxc	Turns on/off lxc mode

Command Mode

- /exec/configure

boot nxos

```
{ boot nxos <uri0> | no boot nxos [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri

Command Mode

- /exec/configure

boot nxos sup-1

```
{ boot nxos <uri0> sup-1 | no boot nxos <uri0> sup-1 }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri
sup-1	Enter sup-1 to configure the 1st sup

Command Mode

- /exec/configure

boot nxos sup-1 sup-2

```
{ boot nxos <uri0> sup-1 sup-2 | no boot nxos <uri0> sup-1 sup-2 }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri
sup-1	Enter sup-1 to configure the 1st sup
sup-2	Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot nxos sup-2

```
{ boot nxos <uri0> sup-2 | no boot nxos <uri0> sup-2 }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri
sup-2	Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot order bootflash

{ boot order bootflash [pxe] | no boot order bootflash [pxe] }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
order	Configure loader fallback order
bootflash	Boot from Bootflash
pxe	(Optional) Pxe Boot

Command Mode

- /exec/configure

boot order pxe

```
{ boot order pxe [ bootflash ] | no boot order pxe [ bootflash ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
order	Configure loader fallback order
pxe	Pxe Boot
bootflash	(Optional) Boot from Bootflash

Command Mode

- /exec/configure

boot poap enable

{ boot poap enable | no boot poap enable }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
poap	feature poap
enable	Enable Perpetual POAP making POAP kick in on reload even with startup-config

Command Mode

- /exec/configure

boot system

{ boot system <uri0> | no boot system [<uri0>] }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
system	Configure system image
<i>uri0</i>	Enter system image uri

Command Mode

- /exec/configure

bootmode boot

[no] bootmode boot

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
boot	boot in boot mode

Command Mode

- /exec/configure

bootmode extruntime

[no] bootmode extruntime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
extruntime	boot in runtime mode with extended diags

Command Mode

- /exec/configure

bootmode hitless

[no] bootmode hitless

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
hitless	boot in hitless mode

Command Mode

- /exec/configure

bootmode module

[no] bootmode module <module> { boot | extruntime | hitless | netboot | nodiagruntime | runtime }

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
module	set bootmode for a given module in the switch
<i>module</i>	please enter module number
boot	boot in boot mode
extruntime	boot in runtime mode with extended diags
hitless	boot in hitless mode
netboot	boot using boot netboot in runtime mode
nodiagruntime	boot in runtime mode without running any diags
runtime	boot in runtime mode with normal diags

Command Mode

- /exec/configure

bootmode nodiagruntime

[no] bootmode nodiagruntime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
nodiagruntime	boot in runtime mode without running any diags

Command Mode

- /exec/configure

bootmode runtime

[no] bootmode runtime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
runtime	boot in runtime mode with normal diags

Command Mode

- /exec/configure

buffer-boost

[no] buffer-boost

Syntax Description

no	(Optional) Negate a command or set its defaults
buffer-boost	Enable extra buffers for this interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

buffer-delete

buffer-delete { <id-range> | <id> | all }

Syntax Description

buffer-delete	delete buffered command(s)
<i>id-range</i>	Range(whole-number) of command id(s) to be deleted from switch-profile buffer
<i>id</i>	Exact command id (x.x.x format) to be deleted from switch-profile buffer
all	delete all buffered commands

Command Mode

- /exec/configure

buffer-move

buffer-move <fromid> <toid>

Syntax Description

buffer-move	move buffered command(s)
<i>fromid</i>	Command id of command(s) to be moved in switch-profile buffer
<i>toid</i>	New command id to be assigned in switch-profile buffer

Command Mode

- /exec/configure

burst-detect enable

[no] burst-detect enable

Syntax Description

no	(Optional) Negate a command or set its defaults
burst-detect	Specify OOBST burst-detect thresholds for the class
enable	enable

Command Mode

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

burst-detect rise-threshold bytes fall-threshold bytes2

[no] burst-detect rise-threshold <value-in-bytes> bytes fall-threshold <value-in-bytes> bytes2

Syntax Description

no	(Optional) Negate a command or set its defaults
burst-detect	Specify OOBST burst-detect thresholds for the class
rise-threshold	Threshold bytes(queue depth) to start monitoring burst
<i>value-in-bytes</i>	
bytes	bytes
fall-threshold	Threshold bytes(queue depth) to stop monitoring burst
<i>value-in-bytes</i>	
bytes2	bytes2

Command Mode

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