



B Commands

- [backoff](#), on page 4
- [backup-bw](#), on page 5
- [bandwidth](#), on page 6
- [bandwidth](#), on page 7
- [bandwidth](#), on page 8
- [bandwidth](#), on page 9
- [bandwidth](#), on page 10
- [bandwidth](#), on page 11
- [bandwidth](#), on page 12
- [bandwidth](#), on page 13
- [bandwidth](#), on page 14
- [banner motd](#), on page 15
- [bcm-shell module](#), on page 16
- [bcm-shell module](#), on page 17
- [beacon](#), on page 18
- [begin exclude include end](#), on page 19
- [bestpath](#), on page 20
- [bestpath all](#), on page 21
- [bfd-app session auto-expiry timeout](#), on page 22
- [bfd-app session remove](#), on page 23
- [bfd-app session src-ip dest intf](#), on page 24
- [bfd-neighbor](#), on page 25
- [bfd](#), on page 26
- [bfd](#), on page 27
- [bfd](#), on page 28
- [bfd](#), on page 29
- [bfd](#), on page 30
- [bfd](#), on page 31
- [bfd authentication key-id key](#), on page 32
- [bfd echo-interface](#), on page 33
- [bfd echo-rx-interval](#), on page 34
- [bfd echo](#), on page 35
- [bfd interval](#), on page 36

- bfd interval, on page 37
- bfd interval min_rx multiplier, on page 38
- bfd interval min_rx multiplier, on page 39
- bfd move-session target, on page 40
- bfd neighbor src-ip dest, on page 41
- bfd optimize subinterface, on page 42
- bfd per-link, on page 43
- bfd session-store remove client, on page 44
- bfd session-store source-ip dest-ip intf client, on page 45
- bfd session state state, on page 46
- bfd slow-timer, on page 47
- bfd startup-timer bfd startup-timer, on page 48
- bfd system internal, on page 49
- binary-location, on page 52
- blink, on page 53
- bloggerd delete all, on page 54
- bloggerd live-process-core process pid, on page 55
- bloggerd live-process-core sap, on page 56
- bloggerd log-dump all, on page 57
- bloggerd log-dump once log-buffer sap event-history, on page 58
- bloggerd log-dump once pss uuid, on page 59
- bloggerd log-throttle, on page 60
- bloggerd log-transfer, on page 61
- bloggerd log-transfer, on page 62
- bloggerd mleak-check directory1 directory2, on page 63
- bloggerd mleak-dump all, on page 64
- bloggerd parse log-buffer file, on page 65
- bloggerd parse log-buffer file sap, on page 66
- bloggerd parse pss file, on page 67
- boot-install nxos, on page 68
- boot-order, on page 69
- boot, on page 70
- boot aci, on page 71
- boot auto-copy, on page 72
- boot kickstart, on page 73
- boot mode lxc, on page 74
- boot nxos, on page 75
- boot nxos sup-1, on page 76
- boot nxos sup-1 sup-2, on page 77
- boot nxos sup-2, on page 78
- boot order bootflash, on page 79
- boot order pxe, on page 80
- boot system, on page 81
- bootmode boot, on page 82
- bootmode extruntime, on page 83
- bootmode hitless, on page 84

- [bootmode module](#), on page 85
- [bootmode nodiagruntime](#), on page 86
- [bootmode runtime](#), on page 87
- [buffer-boost](#), on page 88
- [buffer-delete](#), on page 89
- [buffer-move](#), on page 90
- [burst-detect rise-threshold bytes fall-threshold bytes2](#), on page 91

backoff

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

Syntax Description

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

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

Command Mode

- /exec/configure/if-te

bandwidth

[no] bandwidth | bandwidth { <bw> }

Syntax Description

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

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

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

Syntax Description

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

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

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

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

Syntax Description

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

bandwidth

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

Syntax Description

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

bandwidth

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

Syntax Description

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

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

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

banner motd

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

Syntax Description

Syntax Description

no Negate a command or set its defaults

banner Configure banner message

motd Configure banner motd message

line 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

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

Syntax Description

bcm-shell bcm shell/cmd

module Module number of the
linecard

module Enter module number

Command Mode

- /exec

beacon

[no] beacon

Syntax Description

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

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

expr 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

num (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 }

Syntax Description

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

Command Mode

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

bestpath all

[no] bestpath { all-paths-ecmp }

Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
all-paths-ecmp	Treat all paths as ECMP during bestpath calculation

Command Mode

- /exec/configure/router-bgp/router-bgp-af

bfd-app session auto-expiry timeout

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

Syntax Description

Syntax Description		
bfd-app	BFD application commands	
auto-expiry	auto expiry start/end	
session	session operation	
timeout	timeout after	
now	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

Syntax Description

`bfd-app` BFD application commands

`session` session operation

`remove` Remove sessions

`all` Remove all sessions

`intf` Remove all sessions on interface

intf_id Interface Id

`iod` interface iod

iod_id 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

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-neighbor

[no] bfd-neighbor <remote-peer-ip> <inner-dest-ip> <inner-dest-mac>

Syntax Description

Syntax Description	no	(Optional) Negate a command or set its defaults
	bfd-neighbor	BFD
	<i>remote-peer-ip</i>	Remote peer IP address
	<i>inner-dest-ip</i>	Inner Destination IP address
	<i>inner-dest-mac</i>	Inner Destination MAC address

Command Mode

- /exec/configure/if-nve

bfd

[no | default] bfd

Syntax Description

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

Syntax Description

n (Optional) Negate a command or set its defaults

l Enable IPv4 BFD on all ISIS interfaces

Command Mode

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

bfd

[no] bfd

Syntax Description

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

[no] bfd [ipv4 | ipv6]

Syntax Description

Syntax Description

no (Optional) Negate a command or set its defaults

bfd BFD commands

ip4 (Optional) ipv4 sessions

ip6 (Optional) ipv6 sessions

Command Mode

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

bfd

[no] bfd

Syntax Description

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

Syntax Description

n (Optional) Negate a command or set its defaults

l Enable BFD on all OSPF interfaces

Command Mode

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

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

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

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

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

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

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-ma /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

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 min_rx multiplier

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

Syntax Description

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-ma /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

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 <target_mod> [<discr>]

Syntax Description

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

Command Mode

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

bfd neighbor src-ip dest

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

Syntax Description

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

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

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

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

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

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

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

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

bfd system internal

```
[no] bfd system internal { max session histories <sess_histories_val> | max lc retry interval <max_lc_retry_val>
| max acl retry interval <max_acl_retry_val> | lc retry interval <lc_retry_val> | acl retry interval <acl_retry_val>
| session init retry interval <init_retry_val> | move interval <move_interval> | max lc wait <max_lc_wait_val>
| move detect-mult <move_dm> | neighbor-discovery interval <discovery_val> | max sessions <max_sess_val>
| max mts tlvs <tlv_val> | enable-mts <f2lc_number_v> <f3lc_number_v> | max mts flush interval <flush_val>
| session expiry <session_expiry_val> } | { interval issu <tx_val> min_rx <rx_val> multiplier <multiplier_val>
}
```

Syntax Description

Syntax Description

no	(Optional) Reset global config to defaults
bfd	BFD commands
system	System-related commands
internal	Commands for internal use
max	Configure maximum
session	session
histories	histories to retain
<i>sess_histories_val</i>	Number of session histories to retain
retry	retry
interval	interval
lc	LC
retry	LC retry (secs)
<i>max_lc_retry_val</i>	Value for max interval(sec)
<i>lc_retry_val</i>	gap in seconds
session	Session
init	reinit interval
flush	flush interval
interval	interval
<i>init_retry_val</i>	Gap in seconds
acl	acl
<i>max_acl_retry_val</i>	Maximum interval for which acl installation needs to be retried (secs)

<i>flush_val</i>	Maximum interval to wait before pending mts is sent to aclmgr/bfdc (sec)
acl	acl
<i>acl_retry_val</i>	Acl retry interval(secs)
interval	TX to use during ISSU
issu	issu parameters
min_rx	RX to use during ISSU
multiplier	Multiplier to use during ISSU
<i>tx_val</i>	TX val (msec)
<i>rx_val</i>	RX val (msecs)
<i>multiplier_val</i>	Multiplier
move	Move
interval	interval
<i>move_interval</i>	move interval value
detect-mult	detect multiplier
<i>move_dm</i>	move detect multiplier value
wait	wait
<i>max_lc_wait_val</i>	max wait time(sec)
neighbor-discovery	neighbor discovery
<i>discovery_val</i>	Neighbor discovery interval(msecs)
sessions	sessions
<i>max_sess_val</i>	max number of sessions(16-10000)
mts	mts msg
tlvs	TLVS batched
<i>tlv_val</i>	number of tlvs
enable-mts	Enables MTS send(F2)/recv(F3) between Specified line cards
<i>f2lc_number_v</i>	F2 Line card number (1-10)
<i>f3lc_number_v</i>	F3 Line card number (1-10)
session	session
expiry	expiry

session_expiry_val session expiry sec

Command Mode

- /exec

binary-location

[no] binary-location <source-uri>

Syntax Description

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

blink

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

Syntax Description

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 delete all

bloggerd delete { all-temporary-binary-log-dumps | all-temporary-binary-show-tech-files }

Syntax Description

Syntax Description		
bloggerd		Blogger commands
delete		Delete all logs of one type
all-temporary-binary-log-dumps		Delete all binary log dumps from the local partition (/var/sysmgr/tmp/)
all-temporary-binary-show-tech-files		Delete all binary show tech files

Command Mode

- /exec

bloggerd live-process-core process pid

bloggerd live-process-core process <process-name> pid <process-pid>

Syntax Description

Syntax Description		
bloggerd		Blogger commands
live-process-core		Request a process core dump without killing it
process		Linux Process name
<i>process-name</i>		Enter the Linux name of the process for which core is being requested (Eg: sysmgr)
pid		Process PID
<i>process-pid</i>		Enter the linux PID of the process for which core is being requested (Eg: 4571)

Command Mode

- /exec

bloggerd live-process-core sap

bloggerd live-process-core sap <sap>

Syntax Description

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

Syntax Description

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

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

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

Command Mode

- /exec

bloggerd log-throttle

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

Syntax Description

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

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

Syntax Description

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

Command Mode

- /exec/configure

bloggerd log-transfer

[no] bloggerd log-transfer

Syntax Description

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

Command Mode

- /exec/configure

bloggerd mleak-check directory1 directory2

```
bloggerd mleak-check directory1 <uri0> directory2 <uri1>
```

Syntax Description

Syntax Description	bloggerd	Blogger commands
	mleak-check	Leak check
	directory1	Enter path of directory
	<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)
	directory2	Enter path of directory
	<i>uri1</i>	Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bloggerd mleak-dump all

bloggerd mleak-dump all

Syntax Description

Syntax Description		
	bloggerd	Blogger commands
	mleak-dump	Leak dump
	all	All apps on all modules

Command Mode

- /exec

bloggerd parse log-buffer file

```
bloggerd parse log-buffer { file | directory } <uri0>
```

Syntax Description

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)

Command Mode

- /exec

bloggerd parse log-buffer file sap

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

Syntax Description

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

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

boot-install nxos

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

Syntax Description

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

Syntax Description

boot-order The order at which a vdc will boot up. VDCs at the same level will be started parallelly

new_id 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

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

Command Mode

- /exec/configure

boot aci

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

Syntax Description

Syntax Description

no Negate a command or set its defaults

boot Configure boot variables

aci Configure ACI image

uri0 Enter ACI image uri

Command Mode

- /exec/configure

boot auto-copy

[no] boot auto-copy

Syntax Description

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

Command Mode

- /exec/configure

boot kickstart

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

Syntax Description

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 lxc

[no] boot mode lxc

Syntax Description

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

Syntax Description

no Negate a command or set its defaults

boot Configure boot variables

nxos Configure NXOS image

uri0 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

Syntax Description	no Negate a command or set its defaults
	boot Configure boot variables
	nxos Configure NXOS image
	uri0 Enter kickstart 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

Syntax Description	no Negate a command or set its defaults
	boot Configure boot variables
	nxos Configure NXOS image
	uri0 Enter kickstart 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

Syntax Description	no Negate a command or set its defaults
	boot Configure boot variables
	nxos Configure NXOS image
	uri0 Enter kickstart image uri
	sup2 Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot order bootflash

```
{ boot order bootflash [ pxe ] }
```

Syntax Description

Syntax Description	
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 ] }
```

Syntax Description

Syntax Description		
boot	Configure boot variables	
order	Configure loader fallback order	
pxe	Pxe Boot	
bootflash	(Optional) Boot from Bootflash	

Command Mode

- /exec/configure

boot system

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

Syntax Description

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

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

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

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

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
nodia runtime		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

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

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

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

Syntax Description

buffer-delete delete buffered command(s)

id-range Range(whole-number) of command id(s) to be deleted from switch-profile buffer

id 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

Syntax Description

buffer-move move buffered command(s)

fromid Command id of command(s) to be moved in switch-profile buffer

toid New command id to be assigned in switch-profile buffer

Command Mode

- /exec/configure

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

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

burst-detect rise-threshold bytes fall-threshold bytes2