



## A Commands

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- [aaa accounting default](#), on page 6
- [aaa authentication login ascii-authentication](#), on page 7
- [aaa authentication login console](#), on page 8
- [aaa authentication login default](#), on page 10
- [aaa authentication login default fallback error local](#), on page 12
- [aaa authentication login enable](#), on page 13
- [aaa authentication login error-enable](#), on page 14
- [aaa authentication login invalid-username-log](#), on page 15
- [aaa authentication rejected](#), on page 16
- [aaa authentication rejected in ban](#), on page 17
- [aaa authorization commands console](#), on page 18
- [aaa authorization commands default](#), on page 19
- [aaa authorization ssh default group](#), on page 20
- [aaa bypass-user](#), on page 21
- [aaa group server ldap](#), on page 22
- [aaa group server radius](#), on page 23
- [aaa group server tacacs](#), on page 24
- [aaa test-authentication](#), on page 25
- [aaa test-radius-authentication](#), on page 26
- [aaa user default-role](#), on page 27
- [abort](#), on page 28
- [abort](#), on page 29
- [abort](#), on page 30
- [abort](#), on page 31
- [absolute-timeout](#), on page 32
- [absolute start](#), on page 33
- [accept-lifetime month\\_a month\\_b month\\_c month\\_d month\\_e month\\_f month\\_g month\\_h month\\_i month\\_j month\\_k month\\_l duration infinite month\\_a month\\_b month\\_c month\\_d month\\_e month\\_f month\\_g month\\_h month\\_i month\\_j month\\_k month\\_l](#), on page 34
- [access-class](#), on page 36
- [access-list](#), on page 37
- [access-list](#), on page 38
- [access-list ipv6](#), on page 39
- [access vlan](#), on page 40

- `aclog debug ha restore_rt_cfg`, on page 41
- `aclog match-log-level`, on page 42
- `action`, on page 43
- `action`, on page 44
- `action cli`, on page 45
- `action counter name value op`, on page 46
- `action eem test`, on page 47
- `action event-default`, on page 48
- `action forceshut reset-reason`, on page 49
- `action overbudgetshut`, on page 50
- `action policy-default`, on page 51
- `action reload`, on page 52
- `action snmp-trap`, on page 53
- `action syslog msg`, on page 54
- `activate mode-100M`, on page 55
- `additional-paths install backup`, on page 56
- `additional-paths receive`, on page 57
- `additional-paths selection route-map`, on page 58
- `additional-paths send`, on page 59
- `address-family ipv4`, on page 60
- `address-family ipv4 labeled-unicast`, on page 61
- `address-family ipv4 labeled-unicast`, on page 62
- `address-family ipv4 mdt`, on page 63
- `address-family ipv4 mdt`, on page 64
- `address-family ipv4 mvpn`, on page 65
- `address-family ipv4 mvpn`, on page 66
- `address-family ipv4 unicast`, on page 67
- `address-family ipv4 unicast`, on page 68
- `address-family ipv4 unicast`, on page 69
- `address-family ipv4 unicast`, on page 70
- `address-family ipv4 unicast`, on page 71
- `address-family ipv4 unicast`, on page 72
- `address-family ipv4 unicast`, on page 73
- `address-family ipv4 unicast`, on page 74
- `address-family ipv4 unicast`, on page 75
- `address-family ipv4 unicast`, on page 76
- `address-family ipv6`, on page 77
- `address-family ipv6 labeled-unicast`, on page 78
- `address-family ipv6 labeled-unicast`, on page 79
- `address-family ipv6 mvpn`, on page 80
- `address-family ipv6 mvpn`, on page 81
- `address-family ipv6 unicast`, on page 82
- `address-family ipv6 unicast`, on page 83
- `address-family ipv6 unicast`, on page 84
- `address-family ipv6 unicast`, on page 85
- `address-family ipv6 unicast`, on page 86

- [address-family ipv6 unicast, on page 87](#)
- [address-family ipv6 unicast, on page 88](#)
- [address-family ipv6 unicast, on page 89](#)
- [address-family ipv6 unicast, on page 90](#)
- [address-family ipv6 unicast, on page 91](#)
- [address-family ipv6 unicast, on page 92](#)
- [address-family ipv6 unicast, on page 93](#)
- [address-family l2vpn evpn, on page 94](#)
- [address-family l2vpn evpn, on page 95](#)
- [address-family l2vpn vpls, on page 96](#)
- [address-family l2vpn vpls, on page 97](#)
- [address-family link-state, on page 98](#)
- [address-family link-state, on page 99](#)
- [address-family vpv4 unicast, on page 100](#)
- [address-family vpv4 unicast, on page 101](#)
- [address-family vpv6 unicast, on page 102](#)
- [address-family vpv6 unicast, on page 103](#)
- [address, on page 104](#)
- [address, on page 105](#)
- [address, on page 106](#)
- [address, on page 107](#)
- [address, on page 108](#)
- [address, on page 109](#)
- [address port-number, on page 110](#)
- [address primary, on page 111](#)
- [address secondary, on page 112](#)
- [address secondary, on page 113](#)
- [adjacency-check, on page 114](#)
- [advertise-gw-ip, on page 115](#)
- [advertise-labels, on page 116](#)
- [advertise-map exist default advertise-map, on page 117](#)
- [advertise-pip, on page 118](#)
- [advertise-system-mac, on page 119](#)
- [advertise evpn multicast, on page 120](#)
- [advertise interface, on page 121](#)
- [advertise virtual-rmac, on page 122](#)
- [advertisement-interval, on page 123](#)
- [advertisement-interval, on page 124](#)
- [afd queue-desired, on page 125](#)
- [affinity-group, on page 126](#)
- [affinity-group activate, on page 127](#)
- [affinity, on page 128](#)
- [affinity, on page 129](#)
- [age, on page 130](#)
- [aggregate-address, on page 131](#)
- [aggregate-address, on page 132](#)

- [alert-group user-def-cmd](#), on page 133
- [allocate-label all](#), on page 134
- [allocate-label option-b](#), on page 135
- [allocate1 interface2](#), on page 136
- [allocate2 fcoe-vlan-range](#), on page 137
- [allocate3 shared interface3](#), on page 138
- [allow-vni-in-ethertag](#), on page 139
- [allow feature-set](#), on page 140
- [allowas-in](#), on page 141
- [allowas-in](#), on page 142
- [allowed-vlans](#), on page 143
- [analytics cluster](#), on page 144
- [anonymous-id](#), on page 145
- [append-after next](#), on page 146
- [apply profile](#), on page 147
- [area authentication](#), on page 148
- [area authentication](#), on page 149
- [area default-cost](#), on page 150
- [area default-cost](#), on page 151
- [area filter-list route-map in](#), on page 152
- [area filter-list route-map in](#), on page 153
- [area nssa](#), on page 154
- [area nssa](#), on page 155
- [area nssa translate type7 always never supress-fa](#), on page 156
- [area nssa translate type7 always never supress-fa](#), on page 157
- [area range](#), on page 158
- [area range](#), on page 159
- [area segment-routing mpls](#), on page 160
- [area sham-link](#), on page 161
- [area stub](#), on page 162
- [area stub](#), on page 163
- [area virtual-link](#), on page 164
- [area virtual-link](#), on page 165
- [area virtual-link](#), on page 166
- [area virtual-link](#), on page 167
- [arp access-list](#), on page 168
- [as-format asdot](#), on page 169
- [as-override](#), on page 170
- [assign interface shared](#), on page 171
- [assign vlan dedicated](#), on page 172
- [assign vrf prefix number dedicated](#), on page 173
- [attach console module](#), on page 174
- [attach module](#), on page 175
- [attach module node](#), on page 176
- [attach module port](#), on page 177
- [auth-mechanism plain](#), on page 178

- authentication-check, on page 179
- authentication-check, on page 180
- authentication-check level-1, on page 181
- authentication-check level-2, on page 182
- authentication-key, on page 183
- authentication-key, on page 184
- authentication-type cleartext, on page 185
- authentication-type cleartext, on page 186
- authentication-type cleartext, on page 187
- authentication, on page 188
- authentication, on page 189
- authentication, on page 190
- authentication, on page 191
- authentication, on page 192
- authentication, on page 193
- authentication bind, on page 194
- authentication challenge, on page 195
- authentication key-chain, on page 196
- authentication key-chain, on page 197
- authentication key-chain, on page 198
- authentication key-chain, on page 199
- authentication key-chain, on page 200
- authentication key-chain, on page 201
- authentication lifetime, on page 202
- authentication text, on page 203
- authentication type md5, on page 204
- authentication window-size, on page 205
- auto-bw, on page 206
- auto-bw, on page 207
- auto-bw timers frequency, on page 208
- auto-cost reference-bandwidth, on page 209
- auto-cost reference-bandwidth, on page 210
- auto-recovery, on page 211
- auto-remap-replication-servers, on page 212
- autonomous-system, on page 213
- autoroute announce, on page 214
- autoroute metric, on page 215
- autostate, on page 216
- autovlan enable, on page 217
- awk, on page 218

# aaa accounting default

```
[no] aaa accounting default { group <s0> [ <s1> [ <s2> [ <s3> [ <s4> [ <s5> [ <s6> [ <s7> ] ] ] ] ] ] ] [ local1
| none ] | local [ none1 ] | none2 }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
accounting	Configure accounting methods
default	Configure default methods
group	Specify server groups to redirect the accounting logs
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
none	(Optional) No accounting
none1	(Optional) No accounting
none2	No accounting
local	Use local accounting
local1	(Optional) Use local accounting

## Command Mode

- /exec/configure

# aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
ascii-authentication	enable ascii authentication

## Command Mode

- /exec/configure





none	No authentication
------	-------------------

**Command Mode**

- /exec/configure

## aaa authentication login default

```
[no] aaa authentication login default { group <s0> [ { local1 | none | <s1> [ { local1 | none | <s2> [ { local1 | none | <s3> [ { local1 | none | <s4> [ { local1 | none | <s5> [ { local1 | none | <s6> [ { local1 | none | <s7> [ { local1 | none } ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
group	Specify server groups
<i>s0</i>	Server group name
none	(Optional) No authentication
<i>s1</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s2</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s3</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s4</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s5</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s6</i>	(Optional) Server group name
none	(Optional) No authentication
<i>s7</i>	(Optional) Server group name
none	(Optional) No authentication
local	Use local username authentication
local1	(Optional) Use local username authentication

none	No authentication
------	-------------------

**Command Mode**

- /exec/configure

# aaa authentication login default fallback error local

[no] aaa authentication login { default | console } fallback error local

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
console	Configure console methods
fallback	Configure fallback behavior
error	Fallback in case all AAA servers configured for remote authentication are unreachable (Authentication error)
local	Fallback to local authentication

## Command Mode

- /exec/configure

# aaa authentication login enable

[no] aaa authentication login { mschap | mschapv2 | chap } enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
mschap	MSCHAP authentication for login
mschapv2	MSCHAP V2 authentication for login
chap	CHAP authentication for login
enable	enable the authentication for login

## Command Mode

- /exec/configure

# aaa authentication login error-enable

[no] aaa authentication login error-enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
error-enable	enable display of error message on login failures

## Command Mode

- /exec/configure

# aaa authentication login invalid-username-log

[no] aaa authentication login invalid-username-log

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
invalid-username-log	enable invalid username log

## Command Mode

- /exec/configure

# aaa authentication rejected

[no] aaa authentication rejected

## Syntax Description

no	Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
rejected	Set max number of fail attempts

## Command Mode

- /exec/configure



# aaa authentication rejected in ban

aaa authentication rejected <i1> in <i2> ban <i3>

## Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
rejected	Set max number of fail attempts
<i>i1</i>	Fail attempts max value
in	Watch period for fail attempts
<i>i2</i>	Time period in seconds
ban	Block time period
<i>i3</i>	Time period in seconds

## Command Mode

- /exec/configure

## aaa authorization commands console

```
[no] aaa authorization { commands | config-commands } console { group <s0> [ { local | none | <s1> [ { local | none | <s2> [ { local | none | <s3> [ { local | none | <s4> [ { local | none | <s5> [ { local | none | <s6> [ { local | none | <s7> [ { local | none } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
commands	Authorization for all exec-mode commands
config-commands	Authorization for config commands
console	Configure methods console
group	Specify server groups
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
local	(Optional) Use local RBACL based authorization
none	(Optional) No authorization

### Command Mode

- /exec/configure





## aaa bypass-user

[no] aaa bypass-user <s0> { [ accounting ] [ authorization ] | [ authorization ] [ accounting ] }

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
bypass-user	Configure bypass user
s0	Enter the username
accounting	(Optional) Bypass accounting
authorization	(Optional) Bypass authorization

### Command Mode

- /exec/configure

## aaa group server ldap

[no] aaa group server ldap <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
ldap	LDAP server group name
s0	LDAP server group name

### Command Mode

- /exec/configure

# aaa group server radius

[no] aaa group server radius <s0>

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
radius	RADIUS server group name
s0	RADIUS server group name

## Command Mode

- /exec/configure

## aaa group server tacacs

[no] aaa group server tacacs <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
tacacs	TACACS+ server group name
s0	TACACS+ server group name

### Command Mode

- /exec/configure



# aaa test-authentication

[no] aaa test-authentication

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
test-authentication	Test aaa authentication

## Command Mode

- /exec/configure

# aaa test-radius-authentication

[no] aaa test-radius-authentication

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
test-radius-authentication	Test aaa radius authentication

## Command Mode

- /exec/configure

# aaa user default-role

[no] aaa user default-role

## Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
user	Remotely authenticated user
default-role	Default role assigned by aaa-admin for remote authentication

## Command Mode

- /exec/configure

# abort

abort

## Syntax Description

abort	Exit region configuration mode, aborting changes
-------	--

## Command Mode

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

# abort

abort

## Syntax Description

abort	Abort the current configuration session
-------	---

## Command Mode

- /exec/configure

# abort

abort

## Syntax Description

abort	abort itd session
-------	-------------------

## Command Mode

- /exec/configure/itd-session-device-group

# abort

abort

## Syntax Description

abort	abort plb session
-------	-------------------

## Command Mode

- /exec/configure/plb-session-device-group

# absolute-timeout

{ absolute-timeout <i0> | no absolute-timeout [ <i0> ] }

## Syntax Description

no	Negate a command or set its defaults
absolute-timeout	Configure absolute timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

## Command Mode

- /exec/configure/line



# absolute start

```
{ [ <seqno> ] | no } absolute { start <stime> <sday> <smonth> <year> [ end <etime> <eday> <emonth> <eyear> ] | end <etime> <eday> <emonth> <eyear> }
```

## Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
absolute	Absolute time and date
start	Starting time and date
<i>stime</i>	Starting time
<i>sday</i>	Day of the month
<i>smonth</i>	Month
<i>year</i>	Year
end	(Optional) Ending time and date
<i>etime</i>	(Optional) Ending time
<i>eday</i>	(Optional) Day of the month
<i>emonth</i>	(Optional) Month
<i>eyear</i>	(Optional) Year

## Command Mode

- /exec/configure/timerange

```
accept-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b
month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l
```

# accept-lifetime month\_a month\_b month\_c month\_d month\_e month\_f month\_g month\_h month\_i month\_j month\_k month\_l duration infinite month\_a month\_b month\_c month\_d month\_e month\_f month\_g month\_h month\_i month\_j month\_k month\_l

```
{ { accept-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <sday> <syear> { duration <dsec> | infinite | <etime>
{ month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j |
month_k | month_l } <eday> <eyear> } } | { no accept-lifetime [ [ local ] <stime> { month_a | month_b |
month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l }
<sday> <syear> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e
| month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } } }
```

## Syntax Description

no	Negate a command or set its defaults
accept-lifetime	Set accept lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sday</i>	Day of the month to start

<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to start
duration	Set key lifetime duration
<i>dsec</i>	Duration in seconds
infinite	Never Expires

**Command Mode**

- /exec/configure/keychain-key

# access-class

[no] access-class <name> <inout>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access-class	Specify IPv4 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

## Command Mode

- /exec/configure/line

# access-list

[no] access-list <acl-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	Configure access-list for PLB service
<i>acl-name</i>	Access-list name

## Command Mode

- /exec/configure/plb

# access-list

[no] access-list <acl-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
<i>acl-name</i>	ITD user ACL name

## Command Mode

- /exec/configure/itd

# access-list ipv6

[no] access-list ipv6 <acl-name>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
ipv6	ipv6 access-list
<i>acl-name</i>	ITD user ACL name

## Command Mode

- /exec/configure/itd

# access vlan

[no] access vlan <vlan>

## Syntax Description

no	(Optional) Negate a command or set its defaults
access	access
vlan	vlan
<i>vlan</i>	Vlan

## Command Mode

- /exec/configure/smartc /exec/configure/smartc



# acllog debug ha restore\_rt\_cfg

[no] acllog debug ha restore\_rt\_cfg

## Syntax Description

no	(Optional) Negate a command or set its defaults
acllog	ACLLOG cli interface
debug	Debug utility
ha	Ha debug
restore_rt_cfg	Trigger dummy restore of runtime config

## Command Mode

- /exec

# aclog match-log-level

[no] aclog match-log-level <level>

## Syntax Description

no	(Optional) Negate a command or set its defaults
aclog	Configure ACL logging
match-log-level	aclog logging level
<i>level</i>	match log level

## Command Mode

- /exec/configure

# action

[no] action <label>

## Syntax Description

no	Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9

## Command Mode

- /exec/configure/event-manager-applet

# action

[no] action { drop [ log ] | forward | redirect <intf> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
action	Specify the action clause
drop	Drop matched packets
log	(Optional) Log matched packets
forward	Forward matched packets
redirect	Redirect matched packets to the specified interface(s)
<i>intf</i>	Interface traffic is redirected to

## Command Mode

- /exec/configure/vacl

# action cli

action <label> cli [ local ] <vsh\_cmd>

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
cli	Configure a VSH CLI action
local	(Optional) Execute the action in the same card on which the event happens
<i>vsh_cmd</i>	Enter the vsh command

## Command Mode

- /exec/configure/event-manager-applet

## action counter name value op

action <label> counter name <counter-name> value <counter-value> op <op-val>

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
counter	Specify the name of the counter
name	Specify the name of the counter
<i>counter-name</i>	Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Enter an integer value or a \$ prefixed name (parameter substitution)
op	Specify the operator to be applied
<i>op-val</i>	Enter the value of the operator

### Command Mode

- /exec/configure/event-manager-applet

# action eem test

action <label> eem test <param>

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
eem	Event Manager command
test	Do test action
<i>param</i>	Test action parameter (dummy value)

## Command Mode

- /exec/configure/event-manager-applet

## action event-default

action <label> event-default

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
event-default	Do default action for the event

### Command Mode

- /exec/configure/event-manager-applet



## action forceshut reset-reason

```
[no] action <label2> forceshut [ { module { <module> | <mod-str> } | <s0> { <santa-cruz-range> | <santa-cruz-string> } } ] reset-reason <reset_reason_string>
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label2</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
forceshut	Force the entire switch to shut down
module	(Optional) Optional. Module to be forced to shut down(optional argument)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name
<i>s0</i>	(Optional) Optional. Xbar to be forced to shut down(optional argument)
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
<i>santa-cruz-string</i>	(Optional) Enter the xbar number (integer value) or a \$ prefixed parameter name
reset-reason	Shut down (with reset-reason)
<i>reset_reason_string</i>	please enter reset_reason_string in quotes

### Command Mode

- /exec/configure/event-manager-applet

# action overbudgetshut

[no] action <label> overbudgetshut [ module { <module> | <mod-str> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
overbudgetshut	Shut down the specified LCs due to power over budget
module	(Optional) Optional. Module to be force-shut(optional arg)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

## Command Mode

- /exec/configure/event-manager-applet

# action policy-default

action <label> policy-default

## Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
policy-default	Do default action(s) of the policy being overridden

## Command Mode

- /exec/configure/event-manager-applet

# action reload

[no] action <label> reload [ module { <module> | <mod-str> } ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
reload	Reload the system or a specific module
module	(Optional) Reload a specific module
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

## Command Mode

- /exec/configure/event-manager-applet

## action snmp-trap

action <label> snmp-trap [ intdata1 <integer-data1> ] [ intdata2 <integer-data2> ] [ strdata <string-data> ]

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String

### Command Mode

- /exec/configure/event-manager-applet

## action syslog msg

action <label> syslog [ priority { <prio> | <prio-str> } ] msg <msg-text>

### Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
syslog	Generate a syslog message
priority	(Optional) Priority of the syslog message
<i>prio</i>	(Optional) Enter the priority
<i>prio-str</i>	(Optional) Enter a valid \$ prefixed name, for parameter substitution
msg	Enter the message for the syslog
<i>msg-text</i>	The message text

### Command Mode

- /exec/configure/event-manager-applet

# activate mode-100M

[no] activate mode-100M

## Syntax Description

no	(Optional) Negate a command or set its defaults
activate	Activate new mode
mode-100M	Activate mode-100M

## Command Mode

- /exec/configure

# additional-paths install backup

[no] additional-paths install backup

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
install	Install backup path
backup	Install backup path

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6  
/exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4



# additional-paths receive

[no] additional-paths receive

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
receive	Additional paths Receive capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn  
/exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-vpn4  
/exec/configure/router-bgp/router-bgp-af-vpn6 /exec/configure/router-bgp/router-bgp-af-ipv4-label  
/exec/configure/router-bgp/router-bgp-af-ipv6-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

## additional-paths selection route-map

[no] additional-paths selection route-map <rmap-name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
selection	Additional paths selection
route-map	Route-map for additional paths selection
<i>rmap-name</i>	Route-map name

### Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-vpnv4  
/exec/configure/router-bgp/router-bgp-af-vpnv6 /exec/configure/router-bgp/router-bgp-af-ipv6-label  
/exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn  
/exec/configure/router-bgp/router-bgp-af-ipv4-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# additional-paths send

[no] additional-paths send

## Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
send	Additional paths Send capability

## Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4  
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv6-label  
/exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn  
/exec/configure/router-bgp/router-bgp-af-ipv4-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# address-family ipv4

[no] address-family ipv4

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family

## Command Mode

- /exec/configure/config-sr-mpls/config-sr-mpls-conn-pfxsid

# address-family ipv4 labeled-unicast

{ [ no | default ] } address-family ipv4 labeled-unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
labeled-unicast	Configure labeled unicast sub-address-family

## Command Mode

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

# address-family ipv4 labeled-unicast

[no] address-family ipv4 labeled-unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
labeled-unicast	Configure labeled unicast sub-address-family

## Command Mode

- /exec/configure/router-bgp

# address-family ipv4 mdt

[no] address-family ipv4 mdt

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mdt	Configure Multicast Distribution Tree

## Command Mode

- /exec/configure/router-bgp

## address-family ipv4 mdt

{ [ no | default ] } address-family ipv4 mdt

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mdt	Configure Multicast Distribution Tree

### Command Mode

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



# address-family ipv4 mvpn

[no] address-family ipv4 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

## Command Mode

- /exec/configure/router-bgp

# address-family ipv4 mvpn

{ [ no | default ] } address-family ipv4 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

## Command Mode

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

# address-family ipv4 unicast

[ no | default ] address-family ipv4 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

## Command Mode

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

# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip

# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip/router-rip-vrf

# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

## Command Mode

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

# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

## Command Mode

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

# address-family ipv4 unicast

[no] { address-family ipv4 unicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv4	Configure IPv4 Address Family parameters
unicast	Unicast

## Command Mode

- /exec/configure/mpls\_static



# address-family ipv4 unicast

[no] address-family ipv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv4	Configure IPv4 address family
unicast	Configure Unicast address family

## Command Mode

- /exec/configure/vrf

# address-family ipv4 unicast

[no] address-family ipv4 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

- /exec/configure/router-bgp

# address-family ipv4 unicast

[no] address-family ipv4 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

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

# address-family ipv4 unicast

```
{ [ no | default ] } address-family ipv4 { unicast | multicast }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

## Command Mode

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

# address-family ipv6

[no] address-family ipv6

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family

## Command Mode

- /exec/configure/config-sr-mpls/config-sr-mpls-conn-pfxsid

# address-family ipv6 labeled-unicast

[no] address-family ipv6 labeled-unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
labeled-unicast	Configure labeled unicast sub-address-family

## Command Mode

- /exec/configure/router-bgp

# address-family ipv6 labeled-unicast

{ [ no | default ] } address-family ipv6 labeled-unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
labeled-unicast	Configure labeled unicast sub-address-family

## Command Mode

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

# address-family ipv6 mvpn

[no] address-family ipv6 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

## Command Mode

- /exec/configure/router-bgp



# address-family ipv6 mvpn

{ [ no | default ] } address-family ipv6 mvpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

## Command Mode

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

# address-family ipv6 unicast

{ [ no | default ] } address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

## Command Mode

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

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

## Command Mode

- /exec/configure/router-rip/router-rip-vrf

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

## Command Mode

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

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

## Command Mode

- /exec/configure/router-ospf3

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

## Command Mode

- /exec/configure/router-ospf3/vrf

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

## Command Mode

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



# address-family ipv6 unicast

[no] { address-family ipv6 unicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv6	Configure IPv6 Address Family parameters
unicast	Unicast

## Command Mode

- /exec/configure/mpls\_static

# address-family ipv6 unicast

[no] address-family ipv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv6	Configure IPv6 address family
unicast	Configure Unicast address family

## Command Mode

- /exec/configure/vrf

# address-family ipv6 unicast

[no] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

- /exec/configure/router-bgp

# address-family ipv6 unicast

[no] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

## Command Mode

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

# address-family ipv6 unicast

[ no | default ] address-family ipv6 { unicast | multicast }

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

## Command Mode

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

# address-family l2vpn evpn

{ [ no | default ] } address-family l2vpn evpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
evpn	Configure L2VPN EVPN address-family

## Command Mode

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

# address-family l2vpn evpn

[no] address-family l2vpn evpn

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
evpn	Configure L2VPN EVPN address-family

## Command Mode

- /exec/configure/router-bgp

## address-family l2vpn vpls

{ [ no | default ] } address-family l2vpn vpls

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
vpls	Configure L2VPN VPLS address-family

### Command Mode

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



# address-family l2vpn vpls

[no] address-family l2vpn vpls

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
vpls	Configure L2VPN VPLS address-family

## Command Mode

- /exec/configure/router-bgp

# address-family link-state

[no] address-family link-state

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
link-state	Configure link-state address-family

## Command Mode

- /exec/configure/router-bgp

# address-family link-state

{ [ no | default ] } address-family link-state

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
link-state	Configure link-state address-family

## Command Mode

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

## address-family vpnv4 unicast

{ [ no | default ] } address-family vpnv4 unicast

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
vpnv4	Configure IPv4 VPN address-family
unicast	Configure Unicast sub-address-family

### Command Mode

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

# address-family vpnv4 unicast

[no] address-family vpnv4 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
vpnv4	Configure IPv4 VPN address-family
unicast	Configure Unicast sub-address-family

## Command Mode

- /exec/configure/router-bgp

# address-family vpnv6 unicast

[no] address-family vpnv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
vpnv6	Configure IPv6 VPN address-family
unicast	Configure Unicast sub-address-family

## Command Mode

- /exec/configure/router-bgp

# address-family vpnv6 unicast

{ [ no | default ] } address-family vpnv6 unicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
vpnv6	Configure IPv6 VPN address-family
unicast	Configure Unicast sub-address-family

## Command Mode

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

# address

[no] address <ipv6\_addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration

## Command Mode

- /exec/configure/if-eth-any/vrrs



# address

```
{ address <ip_address> | no address [ <ip_address> ] }
```

## Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address

## Command Mode

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

# address

[no] address <ip\_addr> [ primary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	(Optional) Primary Address
<i>ip_addr</i>	IPv4 Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3\_ipv4

# address

[no] address <ipv6\_addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3\_ipv6

# address

[no] address <ip\_addr>

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration
<i>ip_addr</i>	IP Address

## Command Mode

- /exec/configure/if-eth-any/vrrs

# address

[no] address <start-ip> <end-ip>

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	Address range for the pool
<i>start-ip</i>	Start IP address
<i>end-ip</i>	End IP address

## Command Mode

- /exec/configure/ipnat-pool

# address port-number

address { <ipv4-addr> | <ipv6-addr> } port-number <port-number> | no address

## Syntax Description

no	Negate a command or set its defaults
address	Configure IPv4 or IPv6 address
<i>ipv4-addr</i>	IPv4 address of the BMP server
port-number	Configure the port for the BMP server
<i>port-number</i>	Port number value

## Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

# address primary

[no] address <ipv6\_addr> primary

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	Primary Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3\_ipv6

# address secondary

{ address <ip\_address> secondary | no address <ip\_address> secondary }

## Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address
secondary	a virtual IP address without owner

## Command Mode

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



# address secondary

[no] address <ip\_addr> secondary

## Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
secondary	Secondary Address
<i>ip_addr</i>	IPv4 Address

## Command Mode

- /exec/configure/if-eth-any/vrrpv3\_ipv4

# adjacency-check

[no] adjacency-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
adjacency-check	Adjacency's protocol support consistency check

## Command Mode

- /exec/configure/router-isis/router-isis-af-common

# advertise-gw-ip

[ no | default ] advertise-gw-ip

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
advertise-gw-ip	Advertise Gateway IP in Type-5 routes to neighbor

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# advertise-labels

```
[no] advertise-labels [ vrf { <vrf-name> | <vrf-known-name> } ] [ [ for <pfx-list> [ to <peer-pfx-list> ] ] ] [ interface <intf> ] ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-labels	Label advertisements
vrf	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VPN Routing/Forwarding instance name
<i>vrf-known-name</i>	(Optional) Known VRF name
for	(Optional) Prefix list specifying controls on destination prefixes
<i>pfx-list</i>	(Optional) Name of prefix list
to	(Optional) Prefix list specifying controls on LDP peers
<i>peer-pfx-list</i>	(Optional) Name of prefix list
interface	(Optional) Advertise /32 interface address
<i>intf</i>	(Optional)

## Command Mode

- /exec/configure/ldp

## advertise-map exist default advertise-map

```
{ [ no ] advertise-map <advr-map-name> { exist-map | non-exist-map } <cond-rmap-name> } | default
advertise-map
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	Inherit values from a peer template
advertise-map	Specify route-map for conditional advertisement
exist-map	Condition route-map to advertise only when prefix in condition exists
non-exist-map	Condition route-map to advertise only when prefix in condition does not exist
<i>advr-map-name</i>	Route-map name
<i>cond-rmap-name</i>	Route-map name

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

# advertise-pip

[no] advertise-pip

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-pip	advertise physical ip for type-5 route

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# advertise-system-mac

[no] advertise-system-mac

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-system-mac	Advertise extra EVPN RT-2 with system MAC

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# advertise evpn multicast

[no] advertise evpn multicast

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Advertise L2 multicast capability
evpn	evpn
multicast	L2 multicast

## Command Mode

- /exec/configure



# advertise interface

[no] advertise interface <interface> [ <level> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Advertise interface IP
interface	Advertise interface IP
<i>interface</i>	Interface to advertise
<i>level</i>	(Optional) IS-IS level

## Command Mode

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

# advertise virtual-rmac

[no] advertise virtual-rmac

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Reachability advertisement
virtual-rmac	Advertise virtual RMAC capability

## Command Mode

- /exec/configure/if-nve

# advertisement-interval

```
{ advertisement-interval <interval_time> | no advertisement-interval [ <interval_time> ] }
```

## Syntax Description

no	Negate a command or set its defaults
advertisement-interval	Set the time interval between advertisement
<i>interval_time</i>	Time interval (in seconds) between advertisements

## Command Mode

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

# advertisement-interval

[no] advertisement-interval <adv-sec>

## Syntax Description

no	(Optional) Negate a command or set its defaults
advertisement-interval	Minimum interval between sending BGP routing updates
<i>adv-sec</i>	Time in seconds

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

# afd queue-desired

[no] afd queue-desired <q-desired> { bytes | kbytes | mbytes } [ ecn ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
afd	Configure AFD parameters
queue-desired	Specify Queue Desired for AFD
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
ecn	(Optional) ECN

## Command Mode

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

# affinity-group

```
{ affinity-group <affinity_group_id> } | { { no | default } affinity-group [ <affinity_group_id> ] }
```

## Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
affinity-group	Configure an affinity group
<i>affinity_group_id</i>	Affinity Group ID

## Command Mode

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

# affinity-group activate

affinity-group activate <affinity\_group\_id> | no affinity-group activate [ <affinity\_group\_id> ]

## Syntax Description

no	Negate a command or set its defaults
affinity-group	Configure an affinity group
activate	Activate the affinity group
<i>affinity_group_id</i>	AFFINITY Group ID

## Command Mode

- /exec/configure/router-bgp

# affinity

[no] affinity | affinity <hex\_value> [ mask <mask\_value> ]

## Syntax Description

no	Negate a command or set its defaults
affinity	Specify attribute flags for links comprising LSP
<i>hex_value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask_value</i>	(Optional) affinity mask value

## Command Mode

- /exec/configure/te/lsp-attr



# affinity

[no] affinity | affinity <value> [ mask <mask-value> ]

## Syntax Description

no	Negate a command or set its defaults
affinity	desired link attributes for links comprising tunnel
<i>value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask-value</i>	(Optional) affinity mask value

## Command Mode

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

# age

{ [ no ] age <age> | no age }

## Syntax Description

age	Provide the age value for this INT flow-profile
<i>age</i>	flow-profile age (seconds). Default is 30.

## Command Mode

- /exec/configure/config-int-flow-prof

# aggregate-address

[no] aggregate-address { <ip-addr> <ip-mask> | <ip-prefix> } [ as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate prefixes
<i>ip-addr</i>	Aggregate address
<i>ip-mask</i>	Aggregate mask
<i>ip-prefix</i>	Aggregate prefix
summary-only	(Optional) Don't advertise more specifics
as-set	(Optional) Generate AS-SET information
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

# aggregate-address

[no] aggregate-address <ipv6-prefix> [ as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap> ] +

## Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate IPv6 prefixes
as-set	(Optional) Generate AS-SET information
summary-only	(Optional) Don't advertise more specifics
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

## alert-group user-def-cmd

[no] alert-group { Configuration | Diagnostic | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test } user-def-cmd <s0>

### Syntax Description

no	(Optional) Negate a command or set its defaults
alert-group	alert group
user-def-cmd	configure a cli command for an alert group
s0	A valid CLI command
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic

### Command Mode

- /exec/configure/callhome

# allocate-label all

[no] allocate-label { all | route-map <rmap-name> }

## Syntax Description

no	(Optional) Negate a command or set its defaults
allocate-label	Configure label allocation for this AF
all	Allocate labels for all routes
route-map	Allocate labels for selected routes
<i>rmap-name</i>	Route-map name

## Command Mode

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

# allocate-label option-b

[no] allocate-label option-b

## Syntax Description

no	(Optional) Negate a command or set its defaults
allocate-label	Allow allocation of labels
option-b	Allow allocation of option B labels

## Command Mode

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

## allocate1 interface2

```
allocate1 interface2 { <interface-id> | unallocated-interfaces }
```

### Syntax Description

allocate1	Assign interfaces to vdc
interface2	Assign interface range to vdc
<i>interface-id</i>	Assign interface range to vdc
unallocated-interfaces	Best-effort trying to move all interfaces in the unallocated pool into this vdc

### Command Mode

- /exec/configure/vdc



## allocate2 fcoe-vlan-range

```
{ allocate2 fcoe-vlan-range [ <vlan_range> ] [ from vdc <vdc_names> ] } | { no allocate2 fcoe-vlan-range [ <vlan_range> | { from vdc <vdc_names> } ] }
```

### Syntax Description

no	Negate a command or set its defaults
allocate2	Assign interfaces to vdc
fcoe-vlan-range	vlan reserved for FCoE
<i>vlan_range</i>	(Optional) vlans reserved for FCoE
from	(Optional) which vdc will be sharing ports with the FCoE vdc
vdc	(Optional) which vdc will be sharing ports with the FCoE vdc
<i>vdc_names</i>	(Optional) which vdc will be sharing porst with the FCoE vdc

### Command Mode

- /exec/configure/vdc

# allocate3 shared interface3

[no] allocate3 shared interface3 <interface-id>

## Syntax Description

no	(Optional) Negate a command or set its defaults
allocate3	Assign interfaces to vdc
interface3	Assign interface range to vdc
<i>sinterface-id</i>	Assign interface range to vdc
shared	Shared this port using the reserved FCoE vlans

## Command Mode

- /exec/configure/vdc

# allow-vni-in-ethertag

[no] allow-vni-in-ethertag

## Syntax Description

no	(Optional) Negate a command or set its defaults
allow-vni-in-ethertag	Allow VNI in Ethernet Tag field in EVPN route

## Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

# allow feature-set

[no] allow feature-set <fs>

## Syntax Description

no	(Optional) Negate a command or set its defaults
allow	Used to change permissions inside a vdc
feature-set	Change which feature-sets the user is able to enable inside the vdc
<i>fs</i>	installed feature-sets

## Command Mode

- /exec/configure/vdc

# allowas-in

[ no | default ] allowas-in [ <allowas-in-cnt> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

# allowas-in

[ no | default ] allowas-in [ <allowas-in-cnt> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

## Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

# allowed-vlans

allowed-vlans { <allow-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all }

## Syntax Description

allowed-vlans	Set list of allowed vlans that can be used for interface configuration
<i>allow-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
add	add VLANs to the current list
<i>add-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
except	all VLANs except the following
<i>except-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
all	all VLANs

## Command Mode

- /exec/configure/vmt-conn

# analytics cluster

[no] analytics cluster <clustername> [ vrf <vrfName> ] [ srcIf <src\_intf> ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
analytics	Feature Analytics
cluster	Analytics cluster
<i>clustername</i>	Cluster name
vrf	(Optional) VRF Name
<i>vrfName</i>	(Optional) VRF name
srcIf	(Optional) Source Interface
<i>src_intf</i>	(Optional) Source Interface

## Command Mode

- /exec/configure



# anonymous-id

{ [ no ] anonymous-id <id> }

## Syntax Description

anonymous-id	anonymous identity associated with this profile
<i>id</i>	identity name

## Command Mode

- /exec/configure/dot1x-cred

## append-after next

append-after <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }

### Syntax Description

append-after	Append additional entry after specified index
<i>index</i>	Previous index number
next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

### Command Mode

- /exec/configure/te/expl-path

# apply profile

```
[no] apply profile { <all_conf_profile_name> } [ include-profile <include-profile> ] [ { param-instance <plistinst> | include-instance <plistinst> } + ]
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
apply	Apply a config-profile
profile	Apply a config-profile
<i>all_conf_profile_name</i>	Enter the name of the profile
param-instance	(Optional) Enter the name of the param-instance
<i>plistinst</i>	(Optional) Enter the name of the instance
include-profile	(Optional) Enter the name of the include profile
<i>include-profile</i>	(Optional) Enter the name of the include profile
include-instance	(Optional) Enter the param-instance corresponding to the first included profile
<i>plistinst</i>	(Optional) Enter the name of the include instance

## Command Mode

- /exec/configure

## area authentication

[no] area <area-id-ip> authentication [ message-digest ]

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
authentication	Enable authentication for the area
message-digest	(Optional) Use message-digest authentication

### Command Mode

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

## area authentication

```
area <area-id-ip> authentication { disable | ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no area
<area-id-ip> authentication { disable | ipsec spi <spi_id> }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

### Command Mode

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

## area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default inter-area-prefix LSA
<i>cost</i>	Cost value

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default summary LSA
<i>cost</i>	Cost value

### Command Mode

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

## area filter-list route-map in

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

### Command Mode

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



## area filter-list route-map in

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area nssa

[no] area <area-id-ip> nssa { [ no-summary ] [ no-redistribution ] [ default-information-originate [ route-map <policy-name> ] ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

### Command Mode

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

## area nssa

[no] area <area-id-ip> nssa { [ no-summary ] [ no-redistribution ] [ default-information-originate [ route-map <policy-name> ] ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

### Command Mode

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

## area nssa translate type7 always never supress-fa

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From NSSA-external (Type 7) to AS-external (Type 5)
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

### Command Mode

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

## area nssa translate type7 always never supress-fa

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

### Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From Type 7 to Type 5
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

### Command Mode

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

## area range

[no] area <area-id-ip> range <ipv6-prefix> { [ not-advertise ] [ cost <conf-cost> ] } +

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

### Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

## area range

```
[no] area <area-id-ip> range { <ip-dest> <ip-mask> | <ip-prefix> } { [ not-advertise ] [ cost <conf-cost> ] }
```

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

### Command Mode

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

## area segment-routing mpls

[no] area <area-id-ip> segment-routing { mpls | disable }

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
segment-routing	Segment routing parameters
disable	Disable segment routing in area
mpls	Enable segment routing MPLS in area

### Command Mode

- /exec/configure/router-ospf



## area sham-link

[no] area <area-id-ip> sham-link <source-address> <dest-address>

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
sham-link	Define a sham link and its parameters
<i>source-address</i>	IP addr associated with sham-link source
<i>dest-address</i>	IP addr associated with sham-link destination

### Command Mode

- /exec/configure/router-ospf/vrf

# area stub

[no] area <area-id-ip> stub [ no-summary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

## Command Mode

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

# area stub

[no] area <area-id-ip> stub [ no-summary ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

## Command Mode

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

## area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

### Command Mode

- /exec/configure/router-ospf

# area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

## Command Mode

- /exec/configure/router-ospf3

## area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

### Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

### Command Mode

- /exec/configure/router-ospf3/vrf

# area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

## Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

## Command Mode

- /exec/configure/router-ospf/vrf

## arp access-list

[no] arp access-list <name>

### Syntax Description

no	(Optional) Negate a command or set its defaults
arp	ARP access-list configuration commands
access-list	Configure access list
<i>name</i>	List name

### Command Mode

- /exec/configure



# as-format asdot

as-format asdot | no as-format

## Syntax Description

no	Negate a command or set its defaults
as-format	Configure the router's Autonomous system number (ASN) notation
asdot	Specifies the Autonomous system number (ASN) notation to asdot format

## Command Mode

- /exec/configure

## as-override

[ no | default ] as-override

### Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
as-override	Override matching AS-number while sending update

### Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af  
/exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4  
/exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

# assign interface shared

```
{ assign interface { <sdn-eth-intf-list> | <sdn-pc-intf-list> } shared | no assign interface { <sdn-eth-intf-list> | <sdn-pc-intf-list> } }
```

## Syntax Description

no	Negate a command or set its defaults
assign	Assign resource
interface	Resource of interface type
<i>sdn-eth-intf-list</i>	List of Interfaces
<i>sdn-pc-intf-list</i>	List of Interfaces
shared	Share interface with controller

## Command Mode

- /exec/configure/controller-type

# assign vlan dedicated

{ assign vlan <sdn-id> dedicated | no assign vlan <sdn-id> }

## Syntax Description

no	Negate a command or set its defaults
assign	Assign reservation
vlan	Controller VLANs
<i>sdn-id</i>	vlan ID 2-4093 or range(s): 1-5, 10 or 2-5,7-19
dedicated	Dedicated VLANs

## Command Mode

- /exec/configure/controller-type

# assign vrf prefix number dedicated

```
{ assign vrf prefix <prefix-name> number <number-of-vrfs> dedicated | no assign vrf }
```

## Syntax Description

no	Negate a command or set its defaults
assign	Assign reservation
vrf	VRFs
prefix	VRF prefix
<i>prefix-name</i>	String description of the prefix
number	Number of VRFs
<i>number-of-vrfs</i>	VRF ID range from 1 to 4095
dedicated	Dedicated VRFs

## Command Mode

- /exec/configure/controller-type

# attach console module

attach console module <module>

## Syntax Description

attach	Connect to a specific linecard
console	Connect to the console
module	Connect to the module console
<i>module</i>	Enter module number

## Command Mode

- /exec

# attach module

attach module <module>

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number

## Command Mode

- /exec

# attach module node

attach module <module> node <i0>

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
node	Avanti node number on the linecard
<i>i0</i>	

## Command Mode

- /exec



# attach module port

attach module <module> port <i0>

## Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
port	Port number on the linecard
<i>i0</i>	

## Command Mode

- /exec

# auth-mechanism plain

[no] auth-mechanism { plain }

## Syntax Description

no	(Optional) Negate a command or set its defaults
auth-mechanism	Set the authentication mechanism
plain	Set the authentication mechanism as plain(default)

## Command Mode

- /exec/configure/ldap

# authentication-check

[no] authentication-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# authentication-check

[no] authentication-check

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's

## Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

# authentication-check level-1

[no] authentication-check level-1

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-1	Specify authentication check for level-1 LSP, CSNP and PSNP

## Command Mode

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

## authentication-check level-2

[no] authentication-check level-2

### Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-2	Specify authentication check for level-2 LSP, CSNP and PSNP

### Command Mode

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

# authentication-key

{ { authentication-key <key> } | { no authentication-key [ <key> ] } }

## Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the virtual-link
<i>key</i>	Authentication key

## Command Mode

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

# authentication-key

```
{ { authentication-key <key> } | { no authentication-key [ <key> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the sham-link
<i>key</i>	Authentication key

## Command Mode

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



# authentication-type cleartext

```
{ authentication-type { cleartext | md5 } | no authentication-type [ { cleartext | md5 } ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5

## Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

## authentication-type cleartext

```
{ authentication-type { cleartext | md5 } <level> | no authentication-type [ { cleartext | md5 } ] <level> }
```

### Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level

### Command Mode

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

# authentication-type cleartext

```
{ authentication-type { cleartext | md5 } | no authentication-type [ { cleartext | md5 } ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# authentication

```
authentication { [ text ] <secret> | md5 { key-chain <chain-name> | key-string [ 0 | 7 ] <key-name> [
compatibility ] [ timeout <sec> ] } } | no authentication
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Authentication
text	(Optional) Plain text authentication
<i>secret</i>	Plain text authentication string
md5	Use MD5 authentication
key-chain	Set key chain
<i>chain-name</i>	Name of key-chain
key-string	Set key string
0	(Optional) Specifies an UNENCRYPTED key string will follow
7	(Optional) Specifies a HIDDEN key string will follow
<i>key-name</i>	Key string (64 chars max)
compatibility	(Optional) Operate in compatibility mode for MD5 type-7 authentication
timeout	(Optional) Set timeout
<i>sec</i>	(Optional) (0-32767)Timeout until only accepting new key (seconds)

## Command Mode

- /exec/configure/if-eth-any/hsrp\_ipv4 /exec/configure/if-eth-any/hsrp\_ipv6

# authentication

authentication { ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } | no authentication ipsec spi <spi\_id>

## Syntax Description

no	Negate a command or set its defaults
authentication	Enable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

## Command Mode

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

# authentication

authentication { disable | ipsec spi <spi\_id> { md5 <akey> | sha1 <akey> } } | no authentication { disable | ipsec spi <spi\_id> }

## Syntax Description

no	Negate a command or set its defaults
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

## Command Mode

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

# authentication

[no] authentication { { key-chain <chain> } | { mode md5 } }

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>chain</i>	name of key-chain
mode	mode
md5	Keyed message digest

## Command Mode

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

# authentication

[no] authentication [ message-digest | null ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the vlink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

## Command Mode

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



# authentication

[no] authentication [ message-digest | null ]

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the slink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

## Command Mode

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

# authentication bind

```
[no] authentication { bind-first [ append-with-basedn <s1> ] | compare [ password-attribute <s0> ] }
```

## Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Set the authentication method
bind-first	Set the authentication method to bind-first
append-with-basedn	(Optional) Change the default value (cn=\$userid)
<i>s1</i>	(Optional) append with dn value
compare	Change the default attribute
password-attribute	(Optional) Change the default password attribute (userPassword)
<i>s0</i>	(Optional) password attribute

## Command Mode

- /exec/configure/ldap

# authentication challenge

[no] authentication [ neighbor <nbr> ] challenge

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
challenge	Perform challenge/response handshake with new RSVP neighbors

## Command Mode

- /exec/configure/ip-rsvp

# authentication key-chain

```
{ authentication key-chain <auth-keychain> | no authentication key-chain [ <auth-keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain

## Command Mode

- /exec/configure/l2mp-isis/l2mp-isis-vrf-common

# authentication key-chain

```
{ authentication key-chain <auth-keychain> <level> | no authentication key-chain [ <auth-keychain> ] <level>
}
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain
<i>level</i>	IS-IS level

## Command Mode

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

# authentication key-chain

authentication [ neighbor <nbr> ] key-chain <key-chain-name> | no authentication [ neighbor <nbr> ] key-chain

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
key-chain	Authentication password key-chain
<i>key-chain-name</i>	Key-chain name

## Command Mode

- /exec/configure/ip-rsvp

# authentication key-chain

```
{ authentication key-chain <keychain> } | { no authentication key-chain [ <keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the vlink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

## Command Mode

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

# authentication key-chain

```
{ authentication key-chain <keychain> } | { no authentication key-chain [ <keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the slink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

## Command Mode

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



# authentication key-chain

```
{ authentication key-chain <auth-keychain> | no authentication key-chain [ <auth-keychain> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain

## Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

# authentication lifetime

[no] authentication [ neighbor <nbr> ] lifetime <time>

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
lifetime	Maximum lifetime of neighbor authentication state
<i>time</i>	Lifetime value(in seconds)

## Command Mode

- /exec/configure/ip-rsvp

# authentication text

```
{ authentication text <authentication_pwd> | no authentication [ text <authentication_pwd> ] }
```

## Syntax Description

no	Negate a command or set its defaults
authentication	Select authentication method
text	Set the authentication password (8 char max)
<i>authentication_pwd</i>	

## Command Mode

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

## authentication type md5

[no] authentication [ neighbor <nbr> ] type { md5 | sha-1 }

### Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
type	Type of authentication algorithm
md5	RSA Message Digest 5 hash algorithm (default)
sha-1	NIST Secure Hash Algorithm 1

### Command Mode

- /exec/configure/ip-rsvp

# authentication window-size

[no] authentication [ neighbor <nbr> ] window-size <value>

## Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
window-size	Receive window size for authenticated messages
<i>value</i>	Maximum number of messages allowed in receive window

## Command Mode

- /exec/configure/ip-rsvp

# auto-bw

[no] auto-bw | auto-bw [ { [ collect-bw | frequency <sec> ] + } | { [ frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps> ] + } ]

## Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify automatic bandwidth configuration
collect-bw	(Optional) Just collect bandwidth info
frequency	(Optional) frequency to change LSP bandwidth
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the maximum bandwidth for auto-bw
<i>max-kbps</i>	(Optional) Maximum bandwidth to apply (kbps)
min-bw	(Optional) Set the minimum bandwidth for auto-bw
<i>min-kbps</i>	(Optional) Minimum bandwidth to apply (kbps)

## Command Mode

- /exec/configure/te/lsp-attr

# auto-bw

[no] auto-bw | auto-bw [ { [ collect-bw | frequency <sec> ] + } | { [ frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps> ] + } ]

## Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify mpls tunnel should automatically change bw
collect-bw	(Optional) Just collect Bandwidth info on this tunnel
frequency	(Optional) Frequency to change tunnel BW
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the Maximum Bandwidth for auto-bw on this tunnel
<i>max-kbps</i>	(Optional) Maximum kb/s that tunnel can be auto set to
min-bw	(Optional) Set the Minimum Bandwidth for auto-bw on this tunnel
<i>min-kbps</i>	(Optional) Min kb/s that tunnel can be auto set to

## Command Mode

- /exec/configure/if-te

# auto-bw timers frequency

[no] auto-bw timers { frequency } | auto-bw timers { frequency <sec> }

## Syntax Description

no	Negate a command or set its defaults
auto-bw	auto-bw parameters
timers	Enable auto-bw timers
frequency	Interval between auto-bw data collection
<i>sec</i>	Seconds between auto-bw data collection

## Command Mode

- /exec/configure/te



## auto-cost reference-bandwidth

auto-cost reference-bandwidth { <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps } | no auto-cost  
reference-bandwidth [ <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps ]

### Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPFv3 cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPFv3 cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

### Command Mode

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

## auto-cost reference-bandwidth

auto-cost reference-bandwidth { <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps } | no auto-cost reference-bandwidth [ <ref-bw-mbps> [ Mbps ] | <ref-bw-gbps> Gbps ]

### Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPF cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPF cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

### Command Mode

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

## auto-recovery

auto-recovery [ reload-delay <time-out> ] | no auto-recovery [ reload-delay <time-out> ]

### Syntax Description

no	Negate a command or set its defaults
auto-recovery	vPC settings to enable auto recovery if peer is presumed non-operational
reload-delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

### Command Mode

- /exec/configure/vpc-domain

# auto-remap-replication-servers

[no] auto-remap-replication-servers

## Syntax Description

no	(Optional) Negate a command or set its defaults
auto-remap-replication-servers	Automatically re-map replication servers on every replication server add

## Command Mode

- /exec/configure/if-nve

# autonomous-system

```
{ { autonomous-system <local-as> } | { no autonomous-system [ <local-as> ] } }
```

## Syntax Description

no	Negate a command or set its defaults
autonomous-system	Specify AS number for Address Family
<i>local-as</i>	Local AS number

## Command Mode

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

# autoroute announce

[no] autoroute announce

## Syntax Description

no	(Optional) Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
announce	announce tunnel to IGP

## Command Mode

- /exec/configure/if-te

# autoroute metric

[no] autoroute metric | autoroute metric { <value> | relative <rel-value> }

## Syntax Description

no	Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
metric	Specify mpls tunnel metric
<i>value</i>	Set tunnel metric for autoroutes
relative	Adjust tunnel metric for autoroutes relative to IGP
<i>rel-value</i>	Relative metric value

## Command Mode

- /exec/configure/if-te

# autostate

[no] autostate

## Syntax Description

no	(Optional) Negate a command or set its defaults
autostate	Enable or disable autostate for interface-vlan

## Command Mode

- /exec/configure/if-vlan



# autovlan enable

[no] autovlan enable

## Syntax Description

no	(Optional) Negate a command or set its defaults
autovlan	Automatic creation/deletion of VLANs
enable	Enable auto creation/deletion of VLANs

## Command Mode

- /exec/configure/vmt-conn

# awk

| awk <expr>

## Syntax Description

	Pipe command output to filter
awk	Mini AWK
<i>expr</i>	Edition command (script)

## Command Mode

- /output