



## A Commands

---

- [aaa accounting default](#), on page 6
- [aaa accounting dot1x default group](#), on page 7
- [aaa accounting onep default group](#), on page 8
- [aaa authentication cts default group](#), on page 9
- [aaa authentication dot1x default group](#), on page 10
- [aaa authentication login ascii-authentication](#), on page 11
- [aaa authentication login console](#), on page 12
- [aaa authentication login default](#), on page 14
- [aaa authentication login default fallback error local](#), on page 16
- [aaa authentication login enable](#), on page 17
- [aaa authentication login error-enable](#), on page 18
- [aaa authentication login invalid-username-log](#), on page 19
- [aaa authentication login password-aging enable](#), on page 20
- [aaa authentication onep default group](#), on page 21
- [aaa authentication rejected](#), on page 22
- [aaa authentication rejected in ban](#), on page 23
- [aaa authorization2 commands default2](#), on page 24
- [aaa authorization commands console](#), on page 25
- [aaa authorization cts default group](#), on page 26
- [aaa authorization ssh default group](#), on page 27
- [aaa group server ldap](#), on page 28
- [aaa group server radius](#), on page 29
- [aaa group server tacacs](#), on page 30
- [aaa test-authentication](#), on page 31
- [aaa test-radius-authentication](#), on page 32
- [aaa user default-role](#), on page 33
- [abort](#), on page 34
- [abort](#), on page 35
- [abort](#), on page 36
- [absolute-timeout](#), on page 37
- [absolute start](#), on page 38
- [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 39

- [access-class, on page 41](#)
- [access-class, on page 42](#)
- [access-list, on page 43](#)
- [access-list, on page 44](#)
- [action, on page 45](#)
- [action, on page 46](#)
- [action cli, on page 47](#)
- [action counter name value op, on page 48](#)
- [action eem test, on page 49](#)
- [action event-default, on page 50](#)
- [action exceptionlog module syserr devid errtype errcode phylayer ports harderror, on page 51](#)
- [action forceshut reset-reason, on page 53](#)
- [action overbudgetshut, on page 54](#)
- [action policy-default, on page 55](#)
- [action publish-event sub-system type, on page 56](#)
- [action reload, on page 57](#)
- [action snmp-trap, on page 58](#)
- [action syslog msg, on page 59](#)
- [activate, on page 60](#)
- [activate mode-100M, on page 61](#)
- [activity-timer, on page 62](#)
- [additional-paths install backup, on page 63](#)
- [additional-paths receive, on page 64](#)
- [additional-paths selection route-map, on page 65](#)
- [additional-paths send, on page 66](#)
- [address-family ip address port, on page 67](#)
- [address-family ipv4 labeled-unicast, on page 68](#)
- [address-family ipv4 labeled-unicast, on page 69](#)
- [address-family ipv4 mdt, on page 70](#)
- [address-family ipv4 mdt, on page 71](#)
- [address-family ipv4 mvpn, on page 72](#)
- [address-family ipv4 mvpn, 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 ipv4 unicast, on page 77](#)
- [address-family ipv4 unicast, on page 78](#)
- [address-family ipv4 unicast, on page 79](#)
- [address-family ipv4 unicast, on page 80](#)
- [address-family ipv4 unicast, on page 81](#)
- [address-family ipv4 unicast, on page 82](#)
- [address-family ipv4 unicast, on page 83](#)
- [address-family ipv6 labeled-unicast, on page 84](#)
- [address-family ipv6 labeled-unicast, on page 85](#)
- [address-family ipv6 mvpn, on page 86](#)
- [address-family ipv6 mvpn, 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 l2vpn evpn](#), on page 91
- [address-family l2vpn evpn](#), on page 92
- [address-family l2vpn vpls](#), on page 93
- [address-family l2vpn vpls](#), on page 94
- [address-family link-state](#), on page 95
- [address-family link-state](#), on page 96
- [address-family vpnv4 unicast](#), on page 97
- [address-family vpnv4 unicast](#), on page 98
- [address-family vpnv6 unicast](#), on page 99
- [address-family vpnv6 unicast](#), on page 100
- [address](#), on page 101
- [address](#), on page 102
- [address](#), on page 103
- [address](#), on page 104
- [address](#), on page 105
- [address](#), on page 106
- [address primary](#), on page 107
- [address secondary](#), on page 108
- [address secondary](#), on page 109
- [adjacency-check](#), on page 110
- [adjacency-resolve](#), on page 111
- [advertise-labels](#), on page 112
- [advertise-map exist default advertise-map](#), on page 113
- [advertise-system-mac](#), on page 114
- [advertise l2vpn evpn](#), on page 115
- [advertisement-interval](#), on page 116
- [advertisement-interval](#), on page 117
- [advertisement-interval](#), on page 118
- [afd queue-desired](#), on page 119
- [affinity-group](#), on page 120
- [affinity-group activate](#), on page 121
- [affinity](#), on page 122
- [affinity](#), on page 123
- [aggregate-address](#), on page 124
- [aggregate-address](#), on page 125
- [alert-group user-def-cmd](#), on page 126
- [allocate-label all](#), on page 127
- [allocate1 interface2](#), on page 128
- [allocate2 fcoe-vlan-range](#), on page 129
- [allocate3 shared interface3](#), on page 130
- [allow-vni-in-ethertag](#), on page 131
- [allow delete boot-image](#), on page 132
- [allow feature-set](#), on page 133

- allowas-in, on page 134
- allowas-in, on page 135
- allowed-locators, on page 136
- allowed-vlans, on page 137
- amt flush-routes, on page 138
- amt pseudo-interface, on page 139
- analytics cluster, on page 140
- anonymous-id, on page 141
- append-after next, on page 142
- apply profile, on page 143
- area authentication, on page 144
- area authentication, on page 145
- area default-cost, on page 146
- area default-cost, on page 147
- area filter-list route-map in, on page 148
- area filter-list route-map in, on page 149
- area nssa, on page 150
- area nssa, on page 151
- area nssa translate type7 always never supress-fa, on page 152
- area nssa translate type7 always never supress-fa, on page 153
- area range, on page 154
- area range, on page 155
- area sham-link, on page 156
- area stub, on page 157
- area stub, on page 158
- area virtual-link, on page 159
- area virtual-link, on page 160
- area virtual-link, on page 161
- area virtual-link, on page 162
- arp access-list, on page 163
- as-format asdot, on page 164
- as-override, on page 165
- attach console module, on page 166
- attach module, on page 167
- attach module node, on page 168
- attach module port, on page 169
- auth-mechanism plain, on page 170
- authentication-check, on page 171
- authentication-check level-1, on page 172
- authentication-check level-2, on page 173
- authentication-key, on page 174
- authentication-key, on page 175
- authentication-key, on page 176
- authentication-type cleartext, on page 177
- authentication-type cleartext, on page 178
- authentication, on page 179

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

## aaa accounting default

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

### Syntax Description

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 accounting dot1x default group

[no] aaa accounting dot1x default group <grp\_name> +

## Syntax Description

Syntax Description	
aaa	Configure aaa functions
accounting	Configure accounting methods
dot1x	accounting methods for dot1x
default	default aaa methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa accounting onep default group

[no] aaa accounting onep default group <grp\_name> +

## Syntax Description

<b>Syntax Description</b>	aaa	Configure aaa functions
	accounting	configure accounting methods
	<i>grp_name</i>	server group name

## Command Mode

- /exec/configure



# aaa authentication cts default group

[no] aaa authentication cts default group <grp\_name> +

## Syntax Description

Syntax Description		
aaa		Configure aaa functions
authentication		Configure authentication methods
cts		authentication methods for cts
default		default aaa methods
group		server group
<i>grp_name</i>		server group name

## Command Mode

- /exec/configure

# aaa authentication dot1x default group

[no] aaa authentication dot1x default group <grp\_name> +

## Syntax Description

<b>Syntax Description</b>	aaa	Configure aaa functions
	authentication	Configure authentication methods
	<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

## Syntax Description

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

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

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

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

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

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 login password-aging enable

[no] aaa authentication login password-aging enable

## Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
aaa		Configure aaa functions
authentication		Configure authentication methods
login		Configure methods for login
password-aging		password-aging authentication for login
enable		enable password-aging notification

## Command Mode

- /exec/configure

# aaa authentication onep default group

[no] aaa authentication onep default group <grp\_name> +

## Syntax Description

Syntax Description	
aaa	Configure aaa functions
authentication	Configure authentication methods
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

# aaa authentication rejected

[no] aaa authentication rejected

## Syntax Description

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

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 authorization2 commands default2

```
[no] aaa authorization2 { commands | config-commands } default2 { { group <grp_name> + [ local2 | none ] } | local2 | none }
```

### Syntax Description

Syntax Description		
no	(Optional)	Negate a command or set its defaults
aaa		Configure aaa functions
authorization2		Configure authorization methods
commands		Authorization for all exec-mode commands
config-commands		Authorization for config commands
default2		Configure default methods
group		Specify server groups
<i>grp_name</i>		Server group name
local2	(Optional)	Use local RBACL based authorization
none	(Optional)	No authorization

### Command Mode

- /exec/configure



## aaa authorization commands console

```
[no] aaa authorization { commands | config-commands } console { { group <grp_name> + [ local | none ] }
| local | none }
```

### Syntax Description

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	
<i>grp_name</i>	Server group name	
local	(Optional) Use local RBACL based authorization	
none	(Optional) No authorization	

### Command Mode

- /exec/configure

# aaa authorization cts default group

[no] aaa authorization cts default group <grp\_name> +

## Syntax Description

### Syntax Description

aaa	Configure aaa functions
authorization	Configure authorization methods
cts	authorization methods for cts
default	default aaa methods
group	server group
<i>grp_name</i>	server group name

## Command Mode

- /exec/configure

## aaa authorization ssh default group

```
[no] aaa authorization { ssh-publickey | ssh-certificate } default { group <s0> [ { local1 | <s1> [ { local1 | <s2> [ { local1 | <s3> [ { local1 | <s4> [ { local1 | <s5> [ { local1 | <s6> [ { local1 | <s7> [ { local1 } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local }
```

### Syntax Description

#### Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
ssh-publickey	Configure ssh publickey
ssh-certificate	Configure ssh certificate
default	Configure default ssh methods
group	Specify server groups
<i>s0</i>	Server group name
<i>s1</i>	(Optional) Server group name
<i>s2</i>	(Optional) Server group name
<i>s3</i>	(Optional) Server group name
<i>s4</i>	(Optional) Server group name
<i>s5</i>	(Optional) Server group name
<i>s6</i>	(Optional) Server group name
<i>s7</i>	(Optional) Server group name
local	Use local username authentication
local1	(Optional) Use local username authentication

### Command Mode

- /exec/configure

# aaa group server ldap

[no] aaa group server ldap <s0>

## Syntax Description

<b>Syntax Description</b>	<b>no</b> (Optional) Negate a command or set its defaults
	<b>aaa</b> Configure aaa functions
	<b>group</b> Configure aaa server group
	<b>server</b> Configure aaa server group
	<b>ldap</b> LDAP server group name
	<b>s0</b> LDAP server group name

## Command Mode

- /exec/configure

# aaa group server radius

[no] aaa group server radius <s0>

## Syntax Description

<b>Syntax Description</b>	<b>no</b> (Optional) Negate a command or set its defaults
	<b>aaa</b> Configure aaa functions
	<b>group</b> Configure aaa server group
	<b>server</b> Configure aaa server group
	<b>radius</b> RADIUS server group name
	<b>s0</b> RADIUS server group name

## Command Mode

- /exec/configure

## aaa group server tacacs

[no] aaa group server tacacs <s0>

### Syntax Description

<b>Syntax Description</b>	<b>no</b> (Optional) Negate a command or set its defaults
	<b>aaa</b> Configure aaa functions
	<b>group</b> Configure aaa server group
	<b>server</b> Configure aaa server group
	<b>tacacs</b> TACACS+ server group name
	<b>s0</b> TACACS+ server group name

### Command Mode

- /exec/configure

# aaa test-authentication

[no] aaa test-authentication

## Syntax Description

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

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

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

---

### Syntax Description

---

`abort` Exit region configuration mode, aborting changes

---

## Command Mode

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

# abort

abort

## Syntax Description

---

### Syntax Description

---

`abort` abort itd  
session

---

## Command Mode

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

# abort

abort

## Syntax Description

---

### Syntax Description

---

`abort` Abort the current configuration session

---

## Command Mode

- /exec/configure

# absolute-timeout

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

## Syntax Description

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> <syear> [ end <etime> <eday> <emonth>
<eyear> ] | end <etime> <eday> <emonth> <eyear> }
```

## Syntax Description

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>syear</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 [ 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

### 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

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

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

### Command Mode

- /exec/configure/keychain-key



# access-class

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

## Syntax Description

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

## Command Mode

- /exec/configure/line

# access-class

```
{ access-class <aclname> } | { no access-class [ <aclname-ignore> ] }
```

## Syntax Description

Syntax Description		
no		Negate a command or set its defaults
access-class		Filter incoming connections based on ACL
<i>aclname</i>		ACL name
<i>aclname-ignore</i>	(Optional)	ACL name

## Command Mode

- /exe/configure/onep/tls

# access-list

[no] access-list <acl-name>

## Syntax Description

---

<b>Syntax Description</b>	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

[no] access-list <acl-name>

## Syntax Description

---

<b>Syntax Description</b>	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

# action

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

## Syntax Description

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/vacli

# action

[no] action <label>

## Syntax Description

---

### Syntax Description

**no** Negate a command or set its defaults

---

**action** Configure the actions to be executed

---

*label* Enter the label <num1>[.<num2>] for action order num2 must be 0-9

---

## Command Mode

- /exec/configure/event-manager-applet

# action cli

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

## Syntax Description

---

### Syntax Description

---

*action* Configure the actions to be executed

---

*label* 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

---

*vsh\_cmd* 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

#### 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

---

### Syntax Description

---

*action* Configure the actions to be executed

---

*label* Enter the label <num1>[.<num2>] for action order num2 must be 0-9

---

*eem* Event Manager command

---

*test* Do test action

---

*param* Test action parameter (dummy value)

---

## Command Mode

- /exec/configure/event-manager-applet

# action event-default

action <label> event-default

## Syntax Description

---

### Syntax Description

---

*action*      Configure the actions to be executed

---

*label*        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 exceptionlog module syserr devid errtype errcode phylayer ports harderror

[no] action <label> exceptionlog module <mod> syserr <syserr> devid <id> errtype <type> errcode <code>  
phylayer <phy> ports <list> harderror <hard> [ { desc <str> } ]

## Syntax Description

Syntax Description	
<i>no</i>	(Optional) Negate a command or set its defaults
<i>action</i>	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
<i>exceptionlog</i>	Exception log
<i>module</i>	Enter a module number
<i>mod</i>	Enter module number (integer value) or a \$ prefixed parameter name
<i>syserr</i>	Enter syserr
<i>syserr</i>	Enter syserr code (hex value) or a \$ prefixed parameter name
<i>devid</i>	Enter device id
<i>id</i>	Enter device id (integer value) or a \$ prefixed parameter name
<i>errtype</i>	Enter error type
<i>type</i>	Error error type (integer value) or a \$ prefixed parameter name
<i>errcode</i>	Enter error code
<i>code</i>	Enter error code (hex value) or a \$ prefixed parameter name
<i>phylayer</i>	Enter phy layer
<i>phy</i>	Enter phy layer (integer value) or a \$ prefixed parameter name
<i>ports</i>	Enter failed ports
<i>list</i>	List of ports. Example: 1,3,7-15
<i>harderror</i>	Irrecoverable error?
<i>hard</i>	Error sub-category
<i>desc</i>	(Optional) Enter error description
<i>str</i>	(Optional) Error description

## 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

#### Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>action</i>	Configure the actions to be executed
<i>label2</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
<i>forceshut</i>	Force the entire switch to shut down
<i>module</i>	(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
<i>reset-reason</i>	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

### Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
label	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)
module	(Optional) please enter the module number
mod-str	(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

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 publish-event sub-system type

```
action <label> publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3 <data3> ] [ arg4 <data4> ] }
```

### Syntax Description

Syntax Description	
<code>action</code>	Configure the actions to be executed
<code>label</code>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
<code>publish-event</code>	Publish an application specific event
<code>sub-system</code>	Sub-system ID to which the application event belongs
<code>sub-system-id</code>	Sub-system ID value
<code>type</code>	Event type value
<code>event-type</code>	Event type value
<code>arg1</code>	(Optional) User specified data to be passed when the event is published
<code>data1</code>	(Optional) User specified data value
<code>arg2</code>	(Optional) User specified data to be passed when the event is published
<code>data2</code>	(Optional) User specified data value
<code>arg3</code>	(Optional) User specified data to be passed when the event is published
<code>data3</code>	(Optional) User specified data value
<code>arg4</code>	(Optional) User specified data to be passed when the event is published
<code>data4</code>	(Optional) User specified data value

### Command Mode

- /exec/configure/event-manager-applet



# action reload

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

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
label	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
module	(Optional) please enter the module number
mod-str	(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

#### Syntax Description

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

### Command Mode

- /exec/configure/event-manager-applet

## action syslog msg

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

### Syntax Description

#### Syntax Description

<i>action</i>	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
<i>syslog</i>	Generate a syslog message
<i>priority</i>	(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
<i>msg</i>	Enter the message for the syslog
<i>msg-text</i>	The message text

### Command Mode

- /exec/configure/event-manager-applet

# activate

[no] activate

## Syntax Description

<b>Syntax Description</b>	no	(Optional) Negate a command or set its defaults
	activate	Activate configured virtual service

## Command Mode

- /exec/configure/virt-serv

# activate mode-100M

[no] activate mode-100M

## Syntax Description

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

## Command Mode

- /exec/configure

# activity-timer

```
{ [ no ] activity-timer <seconds> }
```

## Syntax Description

<b>Syntax Description</b>	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>activity-timer</i>	Number of seconds where a dynamic-EID is considered active
	<i>seconds</i>	Timeout value in seconds

## Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

# additional-paths install backup

[no] additional-paths install backup

## Syntax Description

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

# additional-paths receive

[no] additional-paths receive

## Syntax Description

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



# additional-paths selection route-map

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

## Syntax Description

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

# additional-paths send

[no] additional-paths send

## Syntax Description

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

# address-family ip address port

[no] { address-family | ip address } <ip4> port <portnum> [ protocol <proto> encoding <encoder> ]

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
address-family	Set destination IP address
ip	Set destination IPv4 address
address	IP address
port	Set destination port
protocol	(Optional) Set transport protocol
encoding	(Optional) Set encoding format
<i>ip4</i>	Destination IPv4 Address
<i>portnum</i>	Destination port
<i>proto</i>	(Optional)
<i>encoder</i>	(Optional)

## Command Mode

- /exec/configure/telemetry/destination-group

# address-family ipv4 labeled-unicast

[no] address-family ipv4 labeled-unicast

## Syntax Description

<b>Syntax Description</b>	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 labeled-unicast

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

## Syntax Description

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 mdt

[no] address-family ipv4 mdt

## Syntax Description

<b>Syntax Description</b>	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

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

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

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] address-family ipv4 { unicast | multicast }

## Syntax Description

<b>Syntax Description</b>	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

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

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 ipv4 unicast

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

## Syntax Description

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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

## Syntax Description

<b>Syntax Description</b>	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 ipv6 labeled-unicast

[no] address-family ipv6 labeled-unicast

## Syntax Description

<b>Syntax Description</b>	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

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

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

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] address-family ipv6 { unicast | multicast }

## Syntax Description

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



# address-family ipv6 unicast

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

## Syntax Description

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

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/mpls\_static
- /exec/configure/router-eigrp/router-eigrp-vrf-common
- /exec/configure/router-isis/router-isis-vrf-common
- /exec/configure/router-ospf3
- /exec/configure/router-ospf3/vrf
- /exec/configure/router-rip
- /exec/configure/router-rip/router-rip-vrf
- /exec/configure/vrf

# address-family l2vpn evpn

[no] address-family l2vpn evpn

## Syntax Description

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 evpn

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

## Syntax Description

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 vpls

[no] address-family l2vpn vpls

## Syntax Description

<b>Syntax Description</b>	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 l2vpn vpls

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

## Syntax Description

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 link-state

[no] address-family link-state

## Syntax Description

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

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] address-family vpnv4 unicast

## Syntax Description

<b>Syntax Description</b>	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 vpnv4 unicast

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

## Syntax Description

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 vpnv6 unicast

[no] address-family vpnv6 unicast

## Syntax Description

<b>Syntax Description</b>	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

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 <ip\_addr> [ primary ]

## Syntax Description

<b>Syntax Description</b>	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

<b>Syntax Description</b>	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

---

**Syntax Description**

---

no (Optional) Negate a command or set its defaults

---

address IP Address configuration

---

*ip\_addr* IP Address

---

## Command Mode

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

# address

[no] address <ipv6\_addr>

## Syntax Description

<b>Syntax Description</b>	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

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 <start-ip> <end-ip>

## Syntax Description

<b>Syntax Description</b>	<i>no</i>	(Optional) Negate a command or set its defaults
	<i>address</i>	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 primary

[no] address <ipv6\_addr> primary

## Syntax Description

---

**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

[no] address <ip\_addr> secondary

## Syntax Description

<b>Syntax Description</b>	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

# address secondary

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

## Syntax Description

<b>Syntax Description</b>	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

# adjacency-check

[no] adjacency-check

## Syntax Description

<b>Syntax Description</b>	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

# adjacency-resolve

[no] adjacency-resolve

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
adjacency-resolve	Resolve L3->L2 address for ISIS adjacency

## Command Mode

- /exec/configure/router-isis

# advertise-labels

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

## Syntax Description

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>pxf-list</i>	(Optional) Name of prefix list
to	(Optional) Prefix list specifying controls on LDP peers
<i>peer-pxf-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 <advt-rmap-name> { exist-map | non-exist-map } <cond-rmap-name> } | default
advertise-map
```

### Syntax Description

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>advt-rmap-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

# advertise-system-mac

[no] advertise-system-mac

## Syntax Description

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 l2vpn evpn

[no] advertise l2vpn evpn

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
advertise	Configure advertise for this AF
l2vpn	L2VPN
evpn	EVPN

## Command Mode

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

# advertisement-interval

[no] advertisement-interval <adv-sec>

## Syntax Description

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

# advertisement-interval

[no] advertisement-interval <adv-sec>

## Syntax Description

<b>Syntax Description</b>	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-ipv4-mdt  
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

# advertisement-interval

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

## Syntax Description

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

# afd queue-desired

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

## Syntax Description

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

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

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

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

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

# 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

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

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

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

<b>Syntax Description</b>	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

# allocate1 interface2

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

## Syntax Description

### Syntax Description

allocate1	Assign interfaces to vdc
interface2	Assign interface range to vdc
<i>interface-id</i>	Assign interface range to vdc
force	(Optional) force
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

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)	vlan 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

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

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 delete boot-image

[no] allow delete boot-image [ retain ]

## Syntax Description

Syntax Description		
no	(Optional) Negate a command or set its defaults	
allow	allow kickstart or system image to be deleted	
delete	allow delete or overwrite of image file	
boot-image	image file	
retain	(Optional) retain this command after reboot	

## Command Mode

- /exec

# allow feature-set

[no] allow feature-set <fs>

## Syntax Description

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
fs	installed feature-sets

## Command Mode

- /exec/configure/vdc

# allowas-in

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

## Syntax Description

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

# allowas-in

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

## Syntax Description

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

# allowed-locators

{ [ no ] allowed-locators { <rloc> | <rloc6> } + }

## Syntax Description

<b>Syntax Description</b>	no	(Optional) Negate a command or set its defaults
	allowed-locators	List of locators from LISP site
	rloc	IPv4 locator allowed in registered locator-set

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site



# allowed-vlans

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

## Syntax Description

### Syntax Description

**allowed-vlans** Set list of allowed vlans that can be used for interface configuration

*allow-vlans* VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19

**add** add VLANs to the current list

*add-vlans* VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19

**except** all VLANs except the following

*except-vlans* VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19

**remove** remove VLANs from the current list

*remove-vlans* 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

# amt flush-routes

[no] amt flush-routes

## Syntax Description

Syntax Description	
no	(Optional) Negate a command or set its defaults
amt	AMT global configuration commands
flush-routes	Remove routes when restarting AMT

## Command Mode

- /exec/configure /exec/configure/vrf

# amt pseudo-interface

```
{ { amt pseudo-interface <interface> } | { no amt pseudo-interface [ <interface> ] } }
```

## Syntax Description

Syntax Description		
no		Negate a command or set its defaults
amt		AMT global configuration commands
pseudo-interface		Tunnel to relay for forwarding IGMP/MLD messages
interface		Interface name to used for AMT pseudo interface

## Command Mode

- /exec/configure /exec/configure/vrf

# analytics cluster

```
[no] analytics cluster <clustername> [ vrf <vrfName> ] [ srcIf <src_intf> ]
```

## Syntax Description

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

---

**Syntax Description**

anonymous-id anonymous identity associated with this profile

---

*id* identity name

---

## Command Mode

- /exec/configure/dot1x-cred

# append-after next

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

## Syntax Description

### 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

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

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

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

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

### Command Mode

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

# area default-cost

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

## Syntax Description

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 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

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

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

#### 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

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

### Syntax Description

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 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

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 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

#### 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 range

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

+

### Syntax Description

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 range

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

### Syntax Description

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 sham-link

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

### Syntax Description

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

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

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

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

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



# area virtual-link

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

## Syntax Description

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

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

# arp access-list

[no] arp access-list <name>

## Syntax Description

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

---

### 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

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

# attach console module

attach console module <module>

## Syntax Description

---

### Syntax Description

---

attach Connect to a specific linecard

---

console Connect to the console

---

module Connect to the module  
console

---

*module* Enter module number

---

## Command Mode

- /exec

# attach module

attach module <module>

## Syntax Description

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

## Command Mode

- /exec

# attach module node

attach module <module> node <i0>

## Syntax Description

---

**Syntax Description**

---

attach Connect to a specific linecard

---

module Module number of the linecard

---

*module* Enter module number

---

node Avanti node number on the linecard

---

*i0*

---

## Command Mode

- /exec



# attach module port

attach module <module> port <i0>

## Syntax Description

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

## Command Mode

- /exec

# auth-mechanism plain

[no] auth-mechanism { plain }

## Syntax Description

<b>Syntax Description</b>	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

---

### 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 level-1

[no] authentication-check level-1

## Syntax Description

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

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

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

Syntax Description	
no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the sham-link
key	Authentication key

## Command Mode

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

# authentication-key

{ [ no ] authentication-key <key> }

## Syntax Description

<b>Syntax Description</b>	no	(Optional) Negate a command or set its defaults
	authentication-key	Authentication key used by LISP site
	key	SHA-1 password

## Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site



# authentication-type cleartext

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

## Syntax Description

<b>Syntax Description</b>	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-type cleartext

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

## Syntax Description

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

```
authentication { { md5 { { key-chain <word-chain> } | { key-string [ encrypted ] <word-string> } } } | { text
<word-text> } } | no authentication
```

## Syntax Description

Syntax Description		
no		Negate a command or set its defaults
authentication		Configure authentication
md5		MD5 authentication
key-chain		MD5 Key-chain authentication
<i>word-chain</i>		MD5 authentication key-chain
key-string		MD5 keyed authentication
encrypted		(Optional) Specifies an encrypted key will follow
<i>word-string</i>		MD5 authentication key
text		Plain text authentication
<i>word-text</i>		Plain text

## Command Mode

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

# authentication

[no] authentication [ message-digest | null ]

## Syntax Description

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

<b>Syntax Description</b>	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

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

## Syntax Description

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

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

## Syntax Description

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

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

## Syntax Description

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

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 bind

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

## Syntax Description

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

---

**Syntax Description**

---

authentication    Configure RSVP neighbor cryptographic authentication

---

neighbor            (Optional) Configure RSVP neighbor

---

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

## Syntax Description

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

<b>Syntax Description</b>	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

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 key-chain

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

## Syntax Description

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

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 lifetime

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

## Syntax Description

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

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

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

### 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

### 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
sec	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the maximum bandwidth for auto-bw
max-kbps	(Optional) Maximum bandwidth to apply (kbps)
min-bw	(Optional) Set the minimum bandwidth for auto-bw
min-kbps	(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

### 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
sec	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the Maximum Bandwidth for auto-bw on this tunnel
max-kbps	(Optional) Maximum kb/s that tunnel can be auto set to
min-bw	(Optional) Set the Minimum Bandwidth for auto-bw on this tunnel
min-kbps	(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

<b>Syntax Description</b>	<i>no</i>	Negate a command or set its defaults
	<i>auto-bw</i>	auto-bw parameters
	<i>timers</i>	Enable auto-bw timers
	<i>frequency</i>	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

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-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

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-recovery

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

### Syntax Description

---

#### 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

**time-out**        (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

---

**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

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

<b>Syntax Description</b>	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

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

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

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

---

### Syntax Description

| Pipe command output to filter

---

awk Mini AWK

---

*expr* Edition command (script)

---

## Command Mode

- /output

