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aaa accounting default

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

Syntax Description

no	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
<i>s0</i>	Type: string length: 127 Server group name
<i>s1</i>	Type: string length: 127 Server group name
<i>s2</i>	Type: string length: 127 Server group name
<i>s3</i>	Type: string length: 127 Server group name
<i>s4</i>	Type: string length: 127 Server group name
<i>s5</i>	Type: string length: 127 Server group name
<i>s6</i>	Type: string length: 127 Server group name

<i>s7</i>	Type: string length: 127 Server group name
none	No accounting
none1	No accounting
none2	No accounting
local	Use local accounting

Command Modes

- /exec/configure

aaa accounting onep default group

[no] **aaa accounting onep default group** *grp_name*+

Syntax Description	no	Negate a command or set its defaults
	aaa	Configure aaa functions
	accounting	configure accounting methods
	onep	accounting methods for onep
	default	default aaa methods
	group	server group
	<i>grp_name</i>	Type: string server group name
Command Modes	• /exec/configure	

aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

Syntax Description		
	no	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 Modes • /exec/configure

aaa authentication login console

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

Syntax	Description
no	Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
console	Configure console methods
group	Specify server groups
<i>s0</i>	Type: string length: 127 Server group name
none	No authentication
<i>s1</i>	Type: string length: 127 Server group name
none	No authentication
<i>s2</i>	Type: string length: 127 Server group name
none	No authentication
<i>s3</i>	Type: string length: 127 Server group name
none	No authentication
<i>s4</i>	Type: string length: 127 Server group name
none	No authentication

<i>s5</i>	Type: string length: 127 Server group name
none	No authentication
<i>s6</i>	Type: string length: 127 Server group name
none	No authentication
<i>s7</i>	Type: string length: 127 Server group name
none	No authentication
local	Use local username authentication
none	No authentication

Command Modes

- /exec/configure

aaa authentication login default

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

Syntax	Description
no	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>	Type: string length: 127 Server group name
none	No authentication
<i>s1</i>	Type: string length: 127 Server group name
none	No authentication
<i>s2</i>	Type: string length: 127 Server group name
none	No authentication
<i>s3</i>	Type: string length: 127 Server group name
none	No authentication
<i>s4</i>	Type: string length: 127 Server group name
none	No authentication

<i>s5</i>	Type: string length: 127 Server group name
none	No authentication
<i>s6</i>	Type: string length: 127 Server group name
none	No authentication
<i>s7</i>	Type: string length: 127 Server group name
none	No authentication
local	Use local username authentication
none	No authentication

Command Modes

- /exec/configure

aaa authentication login enable

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

Syntax Description		
no		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 Modes • /exec/configure

aaa authentication login error-enable

[no] aaa authentication login error-enable

Syntax Description		
	no	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 Modes		• /exec/configure

aaa authentication login fallback error local

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

Syntax Description		
no		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 Modes • /exec/configure

aaa authentication login password-aging enable

[no] aaa authentication login password-aging enable

Syntax Description	no	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 Modes • /exec/configure

aaa authentication onep default group

[no] **aaa authentication onep default group** *grp_name*+

Syntax Description	no	Negate a command or set its defaults
	aaa	Configure aaa functions
	authentication	Configure authentication methods
	onep	authentication methods for onep
	default	default aaa methods
	group	server group
	<i>grp_name</i>	Type: string server group name
Command Modes		• /exec/configure

aaa authorization

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

Syntax Description		
no		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
default		Configure default methods
console		Configure methods console
group		Specify server groups
<i>grp_name</i>	Type: string	
	antipattern: local none	
	length: 127	
	Server group name	
local		Use local RBACL based authorization
none		No authorization

Command Modes • /exec/configure

aaa authorization default

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

Syntax	Description
no	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>	Type: string length: 127 Server group name
<i>s1</i>	Type: string length: 127 Server group name
<i>s2</i>	Type: string length: 127 Server group name
<i>s3</i>	Type: string length: 127 Server group name
<i>s4</i>	Type: string length: 127 Server group name
<i>s5</i>	Type: string length: 127 Server group name

<i>s6</i>	Type: string length: 127 Server group name
<i>s7</i>	Type: string length: 127 Server group name
local	Use local username authentication

Command Modes

- /exec/configure

aaa group server ldap

[no] aaa group server ldap *s0*

Syntax Description	no Negate a command or set its defaults
	aaa Configure aaa functions
	group Configure aaa server group
	server Configure aaa server group
	ldap LDAP server group name
	<i>s0</i> Type: string length: 64 LDAP server group name
Command Modes	• /exec/configure

aaa group server radius

[no] **aaa group server radius** *s0*

Syntax Description

no Negate a command or set its defaults

aaa Configure aaa functions

group Configure aaa server group

server Configure aaa server group

radius RADIUS server group name

s0 Type: string

length: 127

RADIUS server group name

Command Modes

- /exec/configure

aaa group server tacacs

[no] **aaa group server tacacs** *s0*

Syntax Description	no	Negate a command or set its defaults
	aaa	Configure aaa functions
	group	Configure aaa server group
	server	Configure aaa server group
	tacacs	TACACS+ server group name
	<i>s0</i>	Type: string length: 127 TACACS+ server group name
Command Modes	• /exec/configure	

aaa test-authentication

[no] aaa test-authentication

Syntax Description	no	Negate a command or set its defaults
	aaa	Configure aaa functions
	test-authentication	Test aaa authentication
Command Modes	• /exec/configure	

aaa test-radius-authentication

[no] aaa test-radius-authentication

Syntax Description	no	Negate a command or set its defaults
	aaa	Configure aaa functions
	test-radius-authentication	Test aaa radius authentication

Command Modes

- /exec/configure

aaa user default-role

[no] aaa user default-role

Syntax Description

no	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 Modes

- /exec/configure

abort (ssnmgr)

abort

Syntax Description	abort Abort the current configuration session
---------------------------	--

Command Modes	• /exec/configure
----------------------	-------------------

abort (stp_full)

abort

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

Command Modes	• /exec/configure/spanning-tree/mst/configuration
----------------------	---

absolute

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

Syntax Description

<i>seqno</i>	Type: uinteger min: 1 max: 4294967295 Sequence number
no	Negate a command or set its defaults
absolute	Absolute time and date
start	Starting time and date
<i>stime</i>	Type: time Starting time
<i>sday</i>	Type: integer min: 1 max: 31 Day of the month
<i>smonth</i>	Month January value: 1 January February value: 2 February March value: 3 March April value: 4 April May value: 5 May June value: 6 June July value: 7 July August value: 8 August September value: 9 September October value: 10 October November value: 11 November December value: 12 December

syear Type: integer
min: 2000 max: 3000
Year

end Ending time and date

etime Type: time
Ending time

eday Type: integer
min: 1 max: 31
Day of the month

emonth Month

January value: 1

January

February value: 2

February

March value: 3

March

April value: 4

April

May value: 5

May

June value: 6

June

July value: 7

July

August value: 8

August

September value: 9

September

October value: 10

October

November value: 11

November

December value: 12

December

eyear Type: integer
min: 2000 max: 3000
Year

Command Modes

- /exec/configure/timerange

absolute-timeout

absolute-timeout *i0*|**no absolute-timeout** [*i0*]

Syntax Description

no Negate a command or set its defaults

absolute-timeout Configure absolute timeout

i0 Type: integer

min: 0 max: 525600

Enter timeout in minutes, 0 to disable

Command Modes

- /exec/configure/line

accept-lifetime local

```

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

```

Syntax Description

no	Negate a command or set its defaults
accept-lifetime	Set accept lifetime of key
local	Specify time in local timezone
<i>stime</i>	Type: string pattern: (0?[0-9] 1[0-9] 2[0-3]):([0-5]?[0-9]):([0-5]?[0-9]) length: 8 HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	Type: string pattern: (0?[0-9] 1[0-9] 2[0-3]):([0-5]?[0-9]):([0-5]?[0-9]) length: 8 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>	Type: integer min: 1 max: 31 Day of the month to start
<i>eday</i>	Type: integer min: 1 max: 31 Day of the month to end
<i>syear</i>	Type: integer min: 1993 max: 2035 Year to start
<i>eyear</i>	Type: integer min: 1993 max: 2035 Year to start
duration	Set key lifetime duration
<i>dsec</i>	Type: integer min: 1 max: 2147483646 Duration in seconds
infinite	Never Expires

Command Modes

- /exec/configure/keychain-key

access-class

[no] access-class *name* *inout*

Syntax Description	
no	Negate a command or set its defaults
access-class	Specify IPv4 access control for packets
<i>name</i>	Type: string length: 64 List name
<i>inout</i>	Traffic direction in value: 0 Inbound packets out value: 1 Outbound packets
Command Modes	• /exec/configure/line

access-list capture

[no] {platform|hardware} access-list capture

Syntax Description

no Negate a command or set its defaults

platform Platform configuration commands

hardware Hardware Internal Information

access-list Access Control List

capture Configure ACL capture *Not available in this release.*

Command Modes

• /exec/configure

access-list cleanup-unused-policies

[no] access-list cleanup-unused-policies

Syntax Description

no	Negate a command or set its defaults
access-list	Configure access control list parameters
cleanup-unused-policies	Enable implicit cleanup of ACL policies on shutdown ports

Command Modes

- /exec/configure

access-list fp_dnl

[no] {platform|hardware} access-list fp_dnl

Syntax Description

no Negate a command or set its defaults

platform Platform configuration commands

hardware Hardware Internal Information

access-list Access control list

fp_dnl Fabric path - do not learn mac from broadcast *Not available in this release.*

Command Modes

• /exec/configure

access-list update

[no] {platform|hardware} access-list update {atomic|default-result permit}

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
update	Configure atomic/non-atomic update and default-result
atomic	Enable atomic update of access-list in hardware
default-result	Default access-list result during non-atomic hardware update
permit	Permit all packets during non-atomic update

Command Modes

- /exec/configure

acllog match-log-level

[no] acllog match-log-level *level*

Syntax Description	no	Negate a command or set its defaults
	acllog	Configure ACL logging
	match-log-level	acllog logging level
	<i>level</i>	Type: uinteger min: 0 max: 7 default: 6 match log level
Command Modes	• /exec/configure	

action

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

Syntax Description

no Negate a command or set its defaults

action Specify the action clause

drop Drop matched packets

log Log matched packets

forward Forward matched packets

redirect Redirect matched packets to the specified interface(s)

intf Type: interface

Interface traffic is redirected to

Command Modes

- /exec/configure/vacli

action cli

action *label* **cli** [**local**] *vsh_cmd*

Syntax Description

action Configure the actions to be executed

label Type: string

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

cli Configure a VSH CLI action

local Execute the action in the same card on which the event happens

vsh_cmd Type: remainder

Enter the vsh command

Command Modes

- /exec/configure/event-manager-applet

action counter name value op

action *label* **counter name** *counter-name* **value** *counter-value* **op** *op-val*

Syntax Description

no	Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Type: string 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>	Type: string length: 28 Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Type: string 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 nop value: 1 do nothing, just print the value set value: 2 set the counter to this value inc value: 3 Increment the counter by this value dec value: 4 Decrement the counter by this value

Command Modes

- /exec/configure/event-manager-applet

action event-default

action *label* **event-default**

Syntax Description

action Configure the actions to be executed

label Type: string

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

event-default Do default action for the event

Command Modes

- /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		
no		Negate a command or set its defaults
action		Configure the actions to be executed
<i>label</i>	Type: string	Enter the label <num1>[.<num2>] for action order; num2 must be 0-9
exceptionlog		Exception log
module		Enter a module number
<i>mod</i>	Type: string	Enter module number (integer value) or a \$ prefixed parameter name
syserr		Enter syserr
<i>syserr</i>	Type: string	Enter syserr code (hex value) or a \$ prefixed parameter name
devid		Enter device id
<i>id</i>	Type: string	Enter device id (integer value) or a \$ prefixed parameter name
errtype		Enter error type
<i>type</i>	Type: string	Error error type (integer value) or a \$ prefixed parameter name
errcode		Enter error code
<i>code</i>	Type: string	Enter error code (hex value) or a \$ prefixed parameter name
phylayer		Enter phy layer
<i>phy</i>	Type: string	Enter phy layer (integer value) or a \$ prefixed parameter name
ports		Enter failed ports

<i>list</i>	Type: string List of ports. Example: 1,3,7-15
harderror	Irrecoverable error?
<i>hard</i>	Type: integer min: 0 max: 4 Error sub-category
desc	Enter error description
<i>str</i>	Type: string Error description

Command Modes

- /exec/configure/event-manager-applet

action forceshut reset-reason

```
[no] action label2 forceshut [{module {modulemod-str}|s0 {santa-cruz-rangesanta-cruz-string}}]
reset-reason reset_reason_string
```

Syntax Description

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

Command Modes

- /exec/configure/event-manager-applet

action overbudgetshut

[no] action *label* overbudgetshut [module {*modulemod-str*}]

Syntax Description

no	Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Type: string 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. Module to be force-shut(optional arg)
<i>module</i>	Type: integer-mrange please enter the module number
<i>mod-str</i>	Type: string Enter the module number (integer value) or a \$ prefixed parameter name

Command Modes

- /exec/configure/event-manager-applet

action policy-default

action *label* **policy-default**

Syntax Description

action Configure the actions to be executed

label Type: string

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 Modes

- /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
action	Configure the actions to be executed
<i>label</i>	Type: string Enter the label <num1>[.<num2>] for action order; num2 must be 0-9
publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Type: uinteger min: 1 max: 4294967295 Sub-system ID value
type	Event type value
<i>event-type</i>	Type: uinteger min: 1 max: 4294967295 Event type value
arg1	User specified data to be passed when the event is published
<i>data1</i>	Type: string length: 84 User specified data value
arg2	User specified data to be passed when the event is published
<i>data2</i>	Type: string length: 84 User specified data value
arg3	User specified data to be passed when the event is published
<i>data3</i>	Type: string length: 84 User specified data value
arg4	User specified data to be passed when the event is published

data4 Type: string
 length: 84
 User specified data value

Command Modes

- /exec/configure/event-manager-applet

action reload

[no] action *label* reload [module {*modulemod-str*}]

Syntax Description

no Negate a command or set its defaults

action Configure the actions to be executed

label Type: string

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

reload Reload the system or a specific module

module Reload a specific module

module Type: integer

please enter the module number

mod-str Type: string

Enter the module number (integer value) or a \$ prefixed parameter name

Command Modes

- /exec/configure/event-manager-applet

action snmp-trap

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

Syntax Description

action Configure the actions to be executed

label Type: string

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

Command Modes

- /exec/configure/event-manager-applet

action syslog msg

action *label* **syslog** [**priority** {*prioprio-str*}] **msg** *msg-text*

Syntax Description

action Configure the actions to be executed

label Type: string

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

syslog Generate a syslog message

priority Priority of the syslog message

prio Enter the priority

emergencies value: 0

Syslog level emergency

alerts value: 1

Syslog level alert

critical value: 2

Syslog level critical

errors value: 3

Syslog level error

warnings value: 4

Syslog level warning

notifications value: 5

Syslog level notification

informational value: 6

Syslog level informational

debugging value: 7

Syslog level debugging

prio-str Type: string

pattern: [\$][a-zA-Z0-9_]+

Enter a valid \$ prefixed name, for parameter substitution

msg Enter the message for the syslog

msg-text Type: remainder

The message text

Command Modes

- /exec/configure/event-manager-applet

activate

[no] activate

Syntax Description

no Negate a command or set its defaults

activate Activate configured virtual service

Command Modes

- /exec/configure/virt-serv

additional-paths receive

[no] additional-paths receive

Syntax Description	no	Negate a command or set its defaults
	additional-paths	Additional paths configuration
	receive	Additional paths Receive capability

Command Modes	<ul style="list-style-type: none">• /exec/configure/router-bgp/router-bgp-af• /exec/configure/router-bgp/router-bgp-af-vpn4• /exec/configure/router-bgp/router-bgp-af-vpn6• /exec/configure/router-bgp/router-bgp-af-ipv6-label
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additional-paths selection route-map

[no] additional-paths selection route-map *rmap-name*

Syntax Description

no	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>	Type: string pattern: [!~]* length: 63 Route-map name

Command Modes

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

additional-paths send

[no] additional-paths send

Syntax Description	no	Negate a command or set its defaults
	additional-paths	Additional paths configuration
	send	Additional paths Send capability

Command Modes	<ul style="list-style-type: none">• /exec/configure/router-bgp/router-bgp-af• /exec/configure/router-bgp/router-bgp-af-ipv4• /exec/configure/router-bgp/router-bgp-af-ipv6• /exec/configure/router-bgp/router-bgp-af-ipv6-label
----------------------	--

address-family ipv4 (bgp)

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

Syntax Description		
	no	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 Modes • /exec/configure/router-bgp/router-bgp-vrf

address-family ipv4 (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	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 Modes

- /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 (bgp)

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

Syntax Description		
no		Negate a command or set its defaults
default		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 Modes

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

address-family ipv4 (bgp)

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

Syntax Description		
	no	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 Modes		• /exec/configure/router-bgp

address-family ipv4 mdt (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mdt	Configure Multicast Distribution Tree <i>Not available in this release.</i>

Command Modes

- /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 (bgp)

[no] address-family ipv4 mdt

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv4	Configure IPv4 address-family
	mdt	Configure Multicast Distribution Tree <i>Not available in this release.</i>
Command Modes	• /exec/configure/router-bgp	

address-family ipv4 unicast (rip)

[no] address-family ipv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv4	Configure IPv4 address-family
	unicast	Configure unicast address-family

Command Modes

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

address-family ipv4 unicast (eigrp)

[no] address-family ipv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv4	Configure IPv4 address-family
	unicast	Configure unicast address-family
Command Modes	• /exec/configure/router-eigrp/router-eigrp-vrf-common	

address-family ipv4 unicast (isis)

[no] address-family ipv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv4	Configure IPv4 address-family
	unicast	Configure unicast address-family

Command Modes • /exec/configure/router-isis/router-isis-vrf-common

address-family ipv4 unicast (I3vm)

[no] address-family ipv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure address family
	ipv4	Configure IPv4 address family
Command Modes	• /exec/configure/vrf	

address-family ipv4 unicast (rip)

[no] address-family ipv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv4	Configure IPv4 address-family
	unicast	Configure unicast address-family

Command Modes

- /exec/configure/router-rip

address-family ipv6 (bgp)

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

Syntax Description	no	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 Modes • /exec/configure/router-bgp/router-bgp-vrf

address-family ipv6 (bgp)

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

Syntax Description		
no	Negate a command or set its defaults	
default	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 Modes

- /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 (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	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 Modes

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

address-family ipv6 (bgp)

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

Syntax Description		
	no	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 Modes • /exec/configure/router-bgp

address-family ipv6 labeled-unicast (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	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 <i>Not available in this release.</i>

Command Modes

- /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 labeled-unicast (bgp)

[no] address-family ipv6 labeled-unicast

Syntax Description

no 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 *Not available in this release.*

Command Modes

- /exec/configure/router-bgp

address-family ipv6 unicast (ospfv3)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure IPv6 unicast address-family
Command Modes	• /exec/configure/router-ospf3/vrf	

address-family ipv6 unicast (rip)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure unicast address-family

Command Modes

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

address-family ipv6 unicast (eigrp)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure unicast address-family
Command Modes	• /exec/configure/router-eigrp/router-eigrp-vrf-common	

address-family ipv6 unicast (isis)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure unicast address-family

Command Modes • /exec/configure/router-isis/router-isis-vrf-common

address-family ipv6 unicast (I3vm)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure address family
	ipv6	Configure IPv6 address family
Command Modes	• /exec/configure/vrf	

address-family ipv6 unicast (ospfv3)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure IPv6 unicast address-family

Command Modes

- /exec/configure/router-ospf3

address-family ipv6 unicast (rip)

[no] address-family ipv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	ipv6	Configure IPv6 address-family
	unicast	Configure unicast address-family
Command Modes	• /exec/configure/router-rip	

address-family l2vpn vpls (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family <i>Not available in this release.</i>
vpls	Configure L2VPN VPLS address-family

Command Modes

- /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 (bgp)

[no] address-family l2vpn vpls

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	l2vpn	Configure L2VPN address-family <i>Not available in this release.</i>
	vpls	Configure L2VPN VPLS address-family
Command Modes		• /exec/configure/router-bgp

address-family vpnv4 unicast (bgp)

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

Syntax Description		
no	Negate a command or set its defaults	
default	Inherit values from a peer template	
address-family	Configure an address-family for peer	
vpnv4	Configure IPv4 VPN address-family <i>Not available in this release.</i>	
unicast	Configure Unicast sub-address-family	

Command Modes

- /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 (bgp)

[no] address-family vpnv4 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	vpnv4	Configure IPv4 VPN address-family <i>Not available in this release.</i>
	unicast	Configure Unicast sub-address-family
Command Modes		• /exec/configure/router-bgp

address-family vpnv6 unicast (bgp)

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

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
address-family	Configure an address-family for peer
vpnv6	Configure IPv6 VPN address-family <i>Not available in this release.</i>
unicast	Configure Unicast sub-address-family

Command Modes

- /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 (bgp)

[no] address-family vpnv6 unicast

Syntax Description	no	Negate a command or set its defaults
	address-family	Configure an address-family
	vpnv6	Configure IPv6 VPN address-family <i>Not available in this release.</i>
	unicast	Configure Unicast sub-address-family

Command Modes

- /exec/configure/router-bgp

address

address *ip_address* [**secondary**]|**no address** [*ip_address* [**secondary**]]

Syntax Description

no Negate a command or set its defaults

address Add an IP address to the vr

ip_address Type: ipaddr

ip address

secondary a virtual IP address without owner

Command Modes

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

adjacency-check

[no] adjacency-check

Syntax Description	no Negate a command or set its defaults
	adjacency-check Adjacency's protocol support consistency check
Command Modes	• /exec/configure/router-isis/router-isis-af-common

advertisement-interval

advertisement-interval *interval_time* | **no advertisement-interval** [*interval_time*]

Syntax Description

no	Negate a command or set its defaults
advertisement-interval	Set the time interval between advertisement
<i>interval_time</i>	Type: integer min: 1 max: 255 Time interval (in seconds) between advertisements

Command Modes

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

aggregate-address (bgp)

[no] aggregate-address *ipv6-prefix* [{as-set|summary-only|suppress-map *suppress-rmap*|advertise-map *advertise-rmap*|attribute-map *attribute-rmap*}]+

Syntax Description	
no	Negate a command or set its defaults
aggregate-address	Configure BGP aggregate IPv6 prefixes
<i>ipv6-prefix</i>	Type: ipv6prefix IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128
as-set	Generate AS-SET information
summary-only	Don't advertise more specifics
suppress-map	Conditionally filter more specific routes
advertise-map	Select attribute information from specific routes
attribute-map	Set attribute information of aggregate
<i>advertise-rmap</i>	Type: string pattern: [!-~]* length: 63 Route-map name
<i>suppress-rmap</i>	Type: string pattern: [!-~]* length: 63 Route-map name
<i>attribute-rmap</i>	Type: string pattern: [!-~]* length: 63 Route-map name

Command Modes

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

aggregate-address (bgp)

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

Syntax Description	
no	Negate a command or set its defaults
aggregate-address	Configure BGP aggregate prefixes
<i>ip-addr</i>	Type: ipaddr Aggregate address
<i>ip-mask</i>	Type: ipaddr Aggregate mask
<i>ip-prefix</i>	Type: ipprefix Aggregate prefix
summary-only	Don't advertise more specifics
as-set	Generate AS-SET information
suppress-map	Conditionally filter more specific routes
advertise-map	Select attribute information from specific routes
attribute-map	Set attribute information of aggregate
<i>advertise-rmap</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>suppress-rmap</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>attribute-rmap</i>	Type: string pattern: [!~]* length: 63 Route-map name

Command Modes

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

alert-group user-def-cmd

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

Syntax Description		
no		Negate a command or set its defaults
alert-group		alert group
user-def-cmd		configure a cli command for an alert group
<i>s0</i>	Type: remainder	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 Modes		• /exec/configure/callhome

allocate-label

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

Syntax Description

no	Negate a command or set its defaults
allocate-label	Configure label allocation for this AF <i>Not available in this release.</i>
all	Allocate labels for all routes
route-map	Allocate labels for selected routes
<i>rmap-name</i>	Type: string pattern: [!-~]* length: 63 Route-map name

Command Modes

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

allocate2 fcoe-vlan-range

allocate2 fcoe-vlan-range [*vlan_range*] [**from vdc** *vdc_names*]|**no allocate2 fcoe-vlan-range** [*vlan_range*|**from vdc** *vdc_names*]

Syntax Description	no	Negate a command or set its defaults
	allocate2	Assign interfaces to vdc
	fcoe-vlan-range	vlangs reserved for FCoE <i>Not available in this release.</i>
	<i>vlan_range</i>	Type: integer-mrange vlangs reserved for FCoE
	from	which vdc will be sharing ports with the FCoE vdc
	vdc	which vdc will be sharing ports with the FCoE vdc
	<i>vdc_names</i>	Type: userdef which vdc will be sharing porst with the FCoE vdc
Command Modes	• /exec/configure/vdc	

allocate3 shared interface3

[no] allocate3 shared interface3 *sinterface-id*

Syntax Description

no	Negate a command or set its defaults
allocate3	Assign interfaces to vdc
interface3	Assign interface range to vdc
<i>sinterface-id</i>	Type: interface-mrange Assign interface range to vdc
shared	Shared this port using the reserved FCoE vlans <i>Not available in this release.</i>

Command Modes

- /exec/configure/vdc

allow delete boot-image

[no] allow delete boot-image [retain]

Syntax Description		
	no	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	retain this command after reboot
Command Modes		• /exec

allow feature-set

[no] allow feature-set *fs*

Syntax Description

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

Command Modes

- /exec/configure/vdc

allowas-in

[{no|default}] **allowas-in** [*allowas-in-cnt*]

Syntax Description		
no	Negate a command or set its defaults	
default	Inherit values from a peer template	
allowas-in	Accept as-path with my AS present in it	
<i>allowas-in-cnt</i>	Type: uinteger	
	min: 1 max: 10	
	Number of occurrences of AS number, default is 3	

Command Modes

- /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-ipv4-mdt
- /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-vpls

area (ospf)

area *area-id-ip* **default-cost** *cost* | **no** **area** *area-id-ip* **default-cost** [*cost*]

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr Area Id as an integer or ip address
default-cost	Specify default-cost for default summary LSA
<i>cost</i>	Type: integer min: 0 max: 16777215 Cost value

Command Modes

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

area (ospfv3)

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

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr 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	Supress forwarding address in translated LSAs

Command Modes

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

area (ospf)

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

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr 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	Supress forwarding address in translated LSAs

Command Modes

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

area (ospfv3)

area *area-id-ip* **default-cost** *cost* | **no** **area** *area-id-ip* **default-cost** [*cost*]

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr Area Id as an integer or ip address
default-cost	Specify default-cost for default inter-area-prefix LSA
<i>cost</i>	Type: integer min: 0 max: 16777215 Cost value

Command Modes

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

area (ospfv3)

area *area-id-ip* **filter-list** **route-map** {*policy-name**tr_pol_name*} {**in**|**out**}|**no area** *area-id-ip* **filter-list** **route-map** {*policy-name**tr_pol_name*} [{**in**|**out**}]

Syntax	Description
no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr 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>	Type: string pattern: [!~]* length: 63 Route-map name
<i>tr_pol_name</i>	Type: string An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

Command Modes

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

area (ospf)

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

Syntax	Description
no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr 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>	Type: string pattern: [!-~]* length: 63 Route-map name
<i>rtr_pol_name</i>	Type: string An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

Command Modes

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

area authentication

[no] area *area-id-ip* authentication [message-digest]

Syntax Description

no Negate a command or set its defaults

area Configure area properties

area-id-ip Type: ipaddr
Area Id as an integer or ip address

authentication Enable authentication for the area

message-digest Use message-digest authentication

Command Modes

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

area nssa (ospf)

[no] area *area-id-ip* nssa [no-summary] [no-redistribution] [default-information-originate [route-map *policy-name*]]+

Syntax Description		
no		Negate a command or set its defaults
area		Configure area properties
<i>area-id-ip</i>		Type: ipaddr Area Id as an integer or ip address
nssa		Configure area as NSSA
no-summary		Do not send summary LSAs into NSSA area
no-redistribution		Do not send redistributed LSAs into NSSA area
default-information-originate		Originate Type-7 default LSA into NSSA area
route-map		Policy to control distribution of default route
<i>policy-name</i>		Type: string pattern: [!~]* length: 63 Route-map name

Command Modes

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

area nssa (ospfv3)

[no] area *area-id-ip* nssa [no-summary] [no-redistribution] [default-information-originate [route-map *policy-name*]]+

Syntax Description		
no		Negate a command or set its defaults
area		Configure area properties
<i>area-id-ip</i>	Type: ipaddr	Area Id as an integer or ip address
nssa		Configure area as NSSA
no-summary		Do not send summary LSAs into NSSA area
no-redistribution		Do not send redistributed LSAs into NSSA area
default-information-originate		Originate Type-7 default LSA into NSSA area
route-map		Policy to control distribution of default route
<i>policy-name</i>	Type: string pattern: [!~]* length: 63	Route-map name

Command Modes

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

area range (ospf)

[no] **area** *area-id-ip* **range** {*ip-dest ip-maskip-prefix*} [**not-advertise**] [**cost** *conf-cost*]+

Syntax Description		
no		Negate a command or set its defaults
area		Configure area properties
<i>area-id-ip</i>	Type: ipaddr	Area Id as an integer or ip address
range		Configure an address range for an area
<i>ip-dest</i>	Type: ipaddr	IP prefix format: i.i.i.i
<i>ip-mask</i>	Type: ipaddr	IP network mask format: m.m.m.m
<i>ip-prefix</i>	Type: ipprefix	IP prefix format: x.x.x.x/ml
not-advertise		Suppress advertising the specified range
cost		Cost to use for range
<i>conf-cost</i>	Type: uinteger	min: 0 max: 16777215 Cost value

Command Modes	
	<ul style="list-style-type: none"> • /exec/configure/router-ospf • /exec/configure/router-ospf/vrf

area range (ospfv3)

[no] area *area-id-ip* range *ipv6-prefix* [not-advertise] [cost *conf-cost*]+

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr Area Id as an integer or ip address
range	Configure an address range for an area
<i>ipv6-prefix</i>	Type: ipv6prefix IPv6 prefix format: xxxx:xxxx/ml, xxxx:xxxx::/ml, xxxx::xx/128
not-advertise	Suppress advertising the specified range
cost	Cost to use for range
<i>conf-cost</i>	Type: uinteger min: 0 max: 16777215 Cost value

Command Modes

- /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
no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Type: ipaddr Area Id as an integer or ip address
sham-link	Define a sham link and its parameters <i>Not available in this release.</i>
<i>source-address</i>	Type: ipaddr IP addr associated with sham-link source
<i>dest-address</i>	Type: ipaddr IP addr associated with sham-link destination

Command Modes

- /exec/configure/router-ospf/vrf

area stub (ospf)

[no] area *area-id-ip* stub [no-summary]

Syntax Description

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

Command Modes

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

area stub (ospfv3)

[no] area *area-id-ip* stub [no-summary]

Syntax Description

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

Command Modes

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

area virtual-link (ospf)

[no] **area** *area-id-ip* **virtual-link** *routerid*

Syntax Description

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

Command Modes

- /exec/configure/router-ospf/vrf

area virtual-link (ospfv3)

[no] **area** *area-id-ip* **virtual-link** *routerid*

Syntax Description		
no		Negate a command or set its defaults
area		Configure area properties
<i>area-id-ip</i>	Type: ipaddr	Area Id as an integer or ip address
virtual-link		Define a virtual link and its parameters
<i>routerid</i>	Type: ipaddr	Router ID associated with virtual link neighbor
Command Modes	<ul style="list-style-type: none"> • /exec/configure/router-ospf3/vrf 	

area virtual-link (ospf)

[no] **area** *area-id-ip* **virtual-link** *routerid*

Syntax Description

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

Command Modes

- /exec/configure/router-ospf

area virtual-link (ospfv3)

[no] **area** *area-id-ip* **virtual-link** *routerid*

Syntax Description		
	no	Negate a command or set its defaults
	area	Configure area properties
	<i>area-id-ip</i>	Type: ipaddr Area Id as an integer or ip address
	virtual-link	Define a virtual link and its parameters
	<i>routerid</i>	Type: ipaddr Router ID associated with virtual link neighbor
Command Modes		• /exec/configure/router-ospf3

arp access-list

[no] arp access-list *name*

Syntax Description

no Negate a command or set its defaults

arp ARP access-list configuration commands *Not available in this release.*

access-list Configure access list

name Type: string

length: 64

List name

Command Modes

• /exec/configure

as-format asdot

as-format asdot|no as-format

Syntax Description

no Negate a command or set its defaults

as-format Configure the router's Autonomous system number (ASN) notation

asdot Specifies the Autonomous system number (ASN) notation to asdot format

Command Modes

• /exec/configure

as-override

[**{no|default}**] **as-override**

Syntax Description

no Negate a command or set its defaults

default Inherit values from a peer template

as-override Override matching AS-number while sending update

Command Modes

- /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

ascii-cfg-test

ascii-cfg-test

Syntax Description	ascii-cfg-test Trigger ascii-cfg functions
Command Modes	• /exec

attach console module

attach console module *module*

Syntax Description

attach Connect to a specific linecard

console Connect to the console

module Connect to the module console *Available only in the 9500 series.*

module Type: integer

Enter module number

Command Modes

- /exec

attach fex

attach fex *chas_no*

Syntax Description

attach Connect to module

fex Connect to FEX

chas_no Type: uinteger
min: 101 max: 199
FEX number

Command Modes

• /exec

attach module

attach **module** *module*

Syntax Description

attach Connect to a specific linecard

module Module number of the linecard

module Type: integer

Enter module number

Command Modes

- /exec

attach module node

attach module *module* **node** *i0*

Syntax Description

attach Connect to a specific linecard

module Module number of the linecard

module Type: integer

Enter module number

node Avanti node number on the linecard

i0 Type: integer

min: 1 max: 2

Command Modes

• /exec

attach module port

attach module *module* **port** *i0*

Syntax Description

attach Connect to a specific linecard

module Module number of the linecard

module Type: integer

Enter module number

port Port number on the linecard

i0 Type: integer

min: 1 max: 16

Command Modes

• /exec

attribute-name search-filter base-DN

{userprofile|trustedCert|CRLLookup|user-switch-bind|user-certdn-match|user-pubkey-match}

attribute-name *s0* search-filter *s1* base-DN *s2*

Syntax	Description
userprofile	Set the userprofile
trustedCert	Set the trustedCert
CRLLookup	Set the CRLLookup
user-switch-bind	Set the user-switch-bind
user-certdn-match	Set the certificate matching
user-pubkey-match	Set the pubkey matching
attribute-name	LDAP attribute-name
<i>s0</i>	Type: string length: 128 Search Map attribute-name
search-filter	LDAP search-filter
<i>s1</i>	Type: string length: 128 Search Map search-filter
base-DN	LDAP base-DN
<i>s2</i>	Type: string length: 128 Search Map base-DN Name

Command Modes • /exec/configure/ldap/search

auth-mechanism

[no] auth-mechanism plain

Syntax Description

no Negate a command or set its defaults

auth-mechanism Set the authentication mechanism

plain Set the authentication mechanism as plain(default)

Command Modes

• /exec/configure/ldap

authentication (eigrp)

[no] {ip|ipv6} authentication {key-chain eigrp eigrp-ptag chain|mode eigrp eigrp-ptag md5}

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>eigrp-ptag</i>	Type: string pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]* antipattern: accounting all fsm graceful-restart interface interfaces internal neighbor neighbors notifications packets prefix route route-map shutdown summary topology traffic transmit urib vrf vrf-events length: 20 Process tag
<i>chain</i>	Type: string name of key-chain
mode	mode
eigrp	EIGRP interface configuration commands
md5	Keyed message digest

Command Modes

- /exec/configure/if-igp

authentication (ospf)

[no] authentication [{message-digest|null}]

Syntax Description

no Negate a command or set its defaults

authentication Authentication on the slink

message-digest Use message-digest authentication

null Use null(disable) authentication

Command Modes

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

authentication-check level-1

[no] authentication-check level-1

Syntax Description

no 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 Modes

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

authentication-check level-2

[no] authentication-check level-2

Syntax Description

no	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 Modes

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

authentication (eigrp)

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

Syntax Description	no	Negate a command or set its defaults
	authentication	Configures EIGRP authentication subcommands
	key-chain	key-chain
	<i>chain</i>	Type: string name of key-chain
	mode	mode
	md5	Keyed message digest

Command Modes	<ul style="list-style-type: none">• /exec/configure/router-eigrp/router-eigrp-vrf-common• /exec/configure/router-eigrp/router-eigrp-af-common
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authentication (glbp)

authentication {**md5** {**key-chain** *word-chain*|**key-string** [**encrypted**] *word-string*}|**text** *word-text*}|**no authentication**

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>	Type: string length: 63 MD5 authentication key-chain	
key-string	MD5 keyed authentication	
encrypted	Specifies an encrypted key will follow	
<i>word-string</i>	Type: string length: 63 MD5 authentication key	
text	Plain text authentication	
<i>word-text</i>	Type: string length: 247 Plain text	
Command Modes		• /exec/configure/if-eth-any/glbp

authentication (hsrp_engine)

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

Syntax Description	
no	Negate a command or set its defaults
authentication	Authentication
text	Plain text authentication
<i>secret</i>	Type: string length: 8 Plain text authentication string
md5	Use MD5 authentication
key-chain	Set key chain
<i>chain-name</i>	Type: string length: 250 Name of key-chain
key-string	Set key string
0	Specifies an UNENCRYPTED key string will follow
7	Specifies a HIDDEN key string will follow
<i>key-name</i>	Type: string length: 64 Key string (64 chars max)
compatibility	Operate in compatibility mode for MD5 type-7 authentication
timeout	Set timeout
<i>sec</i>	Type: integer min: 0 max: 32767 (0-32767)Timeout until only accepting new key (seconds)

Command Modes

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

authentication-key (ospf)

authentication-key *key*|**no authentication-key** [*key*]

Syntax Description

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

Command Modes

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

authentication-key (ospf)

authentication-key *key*|**no authentication-key** [*key*]

Syntax Description

no Negate a command or set its defaults

authentication-key Configure the authentication key for the virtual-link

key Type: password
Authentication key

Command Modes

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

authentication (ldap_tree)

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

Syntax Description

no	Negate a command or set its defaults
authentication	Set the authentication method
bind-first	Set the authentication method to bind-first
append-with-basedn	Change the default value (cn=\$userid)
<i>s1</i>	Type: string length: 63 append with dn value
compare	Change the default attribute
password-attribute	Change the default password attribute (userPassword)
<i>s0</i>	Type: string length: 63 password attribute

Command Modes

- /exec/configure/ldap

authentication (ospf)

[no] authentication [{message-digest|null}]

Syntax Description

no Negate a command or set its defaults

authentication Authentication on the vlink

message-digest Use message-digest authentication

null Use null(disable) authentication

Command Modes

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

authentication-type cleartext md5

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

Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level
	level-1 value: 1 Specify authentication type for level-1 LSP, CSNP and PSNP
	level-2 value: 2 Specify authentication type for level-2 LSP, CSNP and PSNP

Command Modes

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

authentication challenge

[no] authentication [neighbor *nbr*] challenge

Syntax Description	'no'	Negate a command or set its defaults
	authentication	Configure RSVP neighbor cryptographic authentication
	neighbor	Configure RSVP neighbor
	<i>nbr</i>	Type: ipaddr RSVP Neighbor address
	challenge	Perform challenge/response handshake with new RSVP neighbors
Command Modes		• /exec/configure/ip-rsvp

authentication key-chain (ospf)

authentication key-chain *keychain* | **no authentication key-chain** [*keychain*]

Syntax Description

no Negate a command or set its defaults

authentication Authentication on the slink

key-chain Authentication password key-chain

keychain Type: string
length: 63
Key-chain name

Command Modes

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

authentication key-chain (isis)

authentication key-chain *auth-keychain level* | **no authentication key-chain** [*auth-keychain*] *level*

Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	Type: string length: 63 authentication keychain
<i>level</i>	IS-IS level level-1 value: 1 Specify authentication key for level-1 LSP, CSNP and PSNP level-2 value: 2 Specify authentication key for level-2 LSP, CSNP and PSNP

Command Modes

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

authentication key-chain (ospf)

authentication key-chain *keychain* | **no authentication key-chain** [*keychain*]

Syntax Description

no Negate a command or set its defaults

authentication Authentication on the vlink

key-chain Authentication password key-chain

keychain Type: string
length: 63
Key-chain name

Command Modes

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

authentication key-chain (rsvp)

authentication [**neighbor** *nbr*] **key-chain** *key-chain-name*|**no authentication** [**neighbor** *nbr*] **key-chain**

Syntax Description

'no'	Negate a command or set its defaults
authentication	Configure RSVP neighbor cryptographic authentication
neighbor	Configure RSVP neighbor
<i>nbr</i>	Type: ipaddr RSVP Neighbor address
key-chain	Authentication password key-chain
<i>key-chain-name</i>	Type: string Key-chain name

Command Modes

- /exec/configure/ip-rsvp

authentication lifetime

[no] authentication [neighbor *nbr*] lifetime *time*

Syntax Description

'no'	Negate a command or set its defaults
authentication	Configure RSVP neighbor cryptographic authentication
neighbor	Configure RSVP neighbor
<i>nbr</i>	Type: ipaddr RSVP Neighbor address
lifetime	Maximum lifetime of neighbor authentication state
<i>time</i>	Type: integer min: 30 max: 86400 default: 1800 Lifetime value(in seconds)

Command Modes

- /exec/configure/ip-rsvp

authentication text

authentication text *authentication_pwd* | **no authentication** [**text** *authentication_pwd*]

Syntax Description

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

Command Modes

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

authentication type

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

Syntax Description

'no'	Negate a command or set its defaults
authentication	Configure RSVP neighbor cryptographic authentication
neighbor	Configure RSVP neighbor
<i>nbr</i>	Type: ipaddr RSVP Neighbor address
type	Type of authentication algorithm
md5	RSA Message Digest 5 hash algorithm (default)
sha-1	NIST Secure Hash Algorithm 1

Command Modes

- /exec/configure/ip-rsvp

authentication window-size

[no] authentication [neighbor *nbr*] window-size *value*

Syntax	Description
'no'	Negate a command or set its defaults
authentication	Configure RSVP neighbor cryptographic authentication
neighbor	Configure RSVP neighbor
<i>nbr</i>	Type: ipaddr RSVP Neighbor address
window-size	Receive window size for authenticated messages
<i>value</i>	Type: integer min: 1 max: 64 default: 1 Maximum number of messages allowed in receive window
Command Modes	<ul style="list-style-type: none"> • /exec/configure/ip-rsvp

auto-cost reference-bandwidth (ospf)

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

Syntax Description		
no		Negate a command or set its defaults
auto-cost		Calculate OSPF cost according to bandwidth
reference-bandwidth		Reference bandwidth used to assign OSPF cost
Mbps		Specify rate in Mbps
Gbps		Specify rate in Gbps
<i>ref-bw-mbps</i>	Type: uinteger min: 1 max: 4000000 default: 40000 Rate in Mbps (bandwidth) (Default)	
<i>ref-bw-gbps</i>	Type: uinteger min: 1 max: 4000 default: 40 Rate in Gbps (bandwidth)	

Command Modes

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

auto-cost reference-bandwidth (ospfv3)

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

Syntax Description	
no	Negate a command or set its defaults
auto-cost	Calculate OSPFv3 cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPFv3 cost
Mbps	Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Type: uinteger min: 1 max: 4000000 default: 40000 Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Type: uinteger min: 1 max: 4000 default: 40 Rate in Gbps (bandwidth)

Command Modes

- /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

no Negate a command or set its defaults

auto-recovery vPC settings to enable auto recovery if peer is presumed non-operational

reload-delay Duration to wait before assuming peer dead and restoring vpcs

time-out Type: integer

min: 240 max: 3600

Time-out for restoring vPC links (in seconds)

Command Modes

- /exec/configure/vpc-domain

autonomous-system

autonomous-system *local-as* | **no autonomous-system** [*local-as*]

Syntax Description

no Negate a command or set its defaults

autonomous-system Specify AS number for Address Family

local-as Type: integer
min: 1 max: 65535
Local AS number

Command Modes

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

awk

"|" **awk** *expr*

Syntax Description

| Pipe command output to filter

awk Mini AWK

expr Type: string

Edition command (script)

Command Modes

• /output