



R Commands

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radius-server deadline

[no] radius-server deadline *i0*

Syntax Description

no	Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
deadline	duration for which non-reachable server is skipped
<i>i0</i>	Type: integer min: 0 max: 1440 Length of time, in minutes

Command Modes

- /exec/configure

radius-server directed-request

[no] radius-server directed-request

Syntax Description	no	Negate a command or set its defaults
	radius-server	Configure RADIUS related parameters
	directed-request	enable direct authentication requests to server
Command Modes	• /exec/configure	

radius-server host

```
[no] radius-server host hostipname {key {0 s0|6 s6|7 s1s2} [pac] [auth-port i0 [acct-port i1]][auth-port1 i2] [acct-port1 i3]} [{authentication [accounting [timeout i4] [retransmit i5]][accounting1] [timeout1 i6] [retransmit1 i7]}]no radius-server host hostipname key
```

Syntax Description

no	Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	Type: nameorip IPV4/IPV6 address or DNS name
key	RADIUS shared secret
pac	Secure Radius Enable
0	RADIUS shared secret(clear text)
<i>s0</i>	Type: string length: 63 RADIUS shared secret(clear text)
accounting	Use for accounting
retransmit	RADIUS server retransmit count
<i>i5</i>	Type: integer min: 0 max: 5 RADIUS server retransmit count
timeout	RADIUS server timeout period in seconds
<i>i4</i>	Type: integer min: 1 max: 60 RADIUS server timeout period in seconds
retransmit1	RADIUS server retransmit count
<i>i7</i>	Type: integer min: 0 max: 5 RADIUS server retransmit count
auth-port	RADIUS server's port for authentication

<i>i0</i>	Type: integer min: 0 max: 65535 port number
timeout1	RADIUS server timeout period in seconds
<i>i6</i>	Type: integer min: 1 max: 60 RADIUS server timeout period in seconds
acct-port	RADIUS server's port for accounting
<i>i1</i>	Type: integer min: 0 max: 65535 port number
accounting1	Use for accounting
authentication	Use for authentication
6	Radius shared secret(type-6 encrypted)
<i>s6</i>	Type: string length: 124 Tadius shared secret(encrypted)
7	RADIUS shared secret(encrypted)
<i>s1</i>	Type: string length: 63 RADIUS shared secret(encrypted)
auth-port1	RADIUS server's port for authentication
<i>i2</i>	Type: integer min: 0 max: 65535 port number
<i>s2</i>	Type: string length: 63 RADIUS shared secret(clear text)
acct-port1	RADIUS server's port for accounting

i3 Type: integer
 min: 0 max: 65535
 port number

Command Modes

- /exec/configure

radius-server key 0

[no] radius-server key {0 s0|6 s6|7 s1s2}|no radius-server key

Syntax Description

no	Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
key	Global RADIUS server shared secret
0	default RADIUS shared secret(clear text)
<i>s0</i>	Type: string length: 63 default RADIUS shared secret(clear text)
6	default RADIUS shared secret(type-6 encrypted)
<i>s6</i>	Type: string length: 124 default RADIUS shared secret(type-6 encrypted)
7	default RADIUS shared secret(encrypted)
<i>s1</i>	Type: string length: 63 default RADIUS shared secret(encrypted)
<i>s2</i>	Type: string length: 63 default RADIUS shared secret(clear text)

Command Modes

- /exec/configure

radius-server pss-clean

[no] radius-server pss-clean

Syntax Description	no	Negate a command or set its defaults
	radius-server	Configure RADIUS related parameters
	pss-clean	Erase PSS

Command Modes

- /exec/configure

radius-server retransmit

[no] radius-server retransmit *i0*

Syntax Description	no	Negate a command or set its defaults
	radius-server	Configure RADIUS related parameters
	retransmit	Global RADIUS server retransmit count
	<i>i0</i>	Type: integer min: 0 max: 5 Global RADIUS server retransmit count
Command Modes		• /exec/configure

radius-server timeout

[no] radius-server timeout *i0*

Syntax	Description
no	Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
timeout	Global RADIUS server timeout period in seconds
<i>i0</i>	Type: integer min: 1 max: 60 RADIUS server timeout period in seconds

Command Modes	
	• /exec/configure

random-detect (qosmgr)

```
[no] random-detect cos cos-list [minimum-threshold] {min-thresh
[{packets|bytes|kbytes|mbytes|ms|us}]} ||percent min-percent-of-qsize} [maximum-threshold] {max-thresh
[{packets1|bytes1|kbytes1|mbytes1|ms1|us1}]} ||percent1 max-percent-of-qsize}
```

Syntax Description

no	Negate a command or set its defaults
random-detect	Configure WRED parameters
cos	Parameters for each cos value <i>Not available in this release.</i>
<i>cos-list</i>	Type: integer-mrange List of class-of-service values
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Type: long Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Type: long Maximum threshold value
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
<i>min-percent-of-qsize</i>	Type: uinteger min: 1 max: 100 Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	Type: uinteger min: 1 max: 100 Maximum threshold percent of queue size
packets	Packets
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
ms	Milli second(s)
us	Micro second(s)

packets1	Packets
bytes1	Bytes
kbytes1	Kilo Bytes
mbytes1	Mega Bytes
ms1	Milli second(s)
us1	Micro second(s)

Command Modes

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

random-detect (qosmgr)

```
[no] random-detect [{minimum-threshold min-thresh {packets|bytes|kbytes|mbytes}
maximum-threshold max-thresh {packets1|bytes1|kbytes1|mbytes1} drop-probability drop-prob
weight weight [cap-average][threshold {burst-optimized|mesh-optimized}}] [ecn]
```

Syntax Description

no	Negate a command or set its defaults
random-detect	Configure WRED parameters
threshold	Threshold
burst-optimized	Threshold optimized for bursty traffic
mesh-optimized	Threshold optimized for mesh traffic
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Type: long Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Type: long Maximum threshold value
packets	Packets
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
packets1	Packets
bytes1	Bytes
kbytes1	Kilo Bytes
mbytes1	Mega Bytes
drop-probability	Drop Probability at Maximum Threshold
<i>drop-prob</i>	Type: integer min: 0 max: 100 Drop Probability Value
weight	Queue length weight

<i>weight</i>	Type: integer min: 0 max: 15 Queue length weight
cap-average	If average queue length is more, replace average queue length with current queue length
ecn	ECN

Command Modes

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

random-detect cos-based

```
[no] random-detect cos-based [aggregate [minimum-threshold] {min-thresh
[packets|bytes|kbytes|mbytes|ms|us}]|percent min-percent-of-qsize} [maximum-threshold] {max-thresh
[packets1|bytes1|kbytes1|mbytes1|ms1|us1}]|percent1 max-percent-of-qsize}]
```

Syntax Description

no	Negate a command or set its defaults
random-detect	Configure WRED parameters
cos-based	Configure WRED parameters for cos-based mode <i>Not available in this release.</i>
aggregate	Configure WRED parameters to same value for all sub-classes
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Type: long Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Type: long Maximum threshold value
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
<i>min-percent-of-qsize</i>	Type: uinteger min: 1 max: 100 Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	Type: uinteger min: 1 max: 100 Maximum threshold percent of queue size
packets	Packets
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
ms	Milli second(s)
us	Micro second(s)
packets1	Packets

bytes1	Bytes
kbytes1	Kilo Bytes
mbytes1	Mega Bytes
ms1	Milli second(s)
us1	Micro second(s)

Command Modes

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

rate-limit

rate-limit {*autorate_value*}|**no rate-limit**

Syntax Description

no Negate a command or set its defaults

rate-limit Set the Rate limit for SPAN packets *Not available in this release.*

auto Set the Rate limit using auto value *Not available in this release.*

rate_value Type: integer

min: 1 max: 100

Enter the percentage of the maximum rate for SPAN packets

Command Modes

- /exec/configure/monitor-local-src
- /exec/configure/config-monitor
- /exec/configure/config-monitor-erspan-src

rate-limit cpu direction pps action log (pm)

[no] rate-limit cpu direction {input|output|both} pps *pps-val* action log

Syntax Description

no	Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	Type: uinteger min: 0 max: 100000 pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Modes

- /exec/configure/if-eth-base
- /exec/configure/if-eth-any
- /exec/configure/if-mgmt-ether

rate-limit cpu direction pps action log (pm)

[no] rate-limit cpu direction {input|output|both} pps *pps-val* action log

Syntax Description	
no	Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	Type: uinteger min: 0 max: 100000 pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Modes • /exec/configure

rate-limiter

```
{platform|hardware} rate-limiter {layer-3 {l3-opts|multicast mcast-opts}|layer-2 l2-opts|f1
f1-opts} {pps [burst burst]|disable} [module module [port start end]]|no {platform|hardware}
rate-limiter {layer-3 {l3-opts|multicast mcast-opts}|layer-2 l2-opts|f1 f1-opts} [disable] [pps]
[burst burst] [module module [port start end]]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded to supervisor
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	glean value: 3 Glean traffic
multicast	Multicast data packets
<i>mcast-opts</i>	local-groups value: 5 Data packets punted for initiating SPT join
layer-2	Layer-2 control and Bridged packets <i>Not available in this release.</i>
<i>l2-opts</i>	storm-control value: 7 Packets flooded in VLAN port-security value: 12 Packets violating MAC restrictions on the ingress interface mcast-snooping value: 13 IGMP Snoop packets for L2 Multicast vpc-low value: 14 Control packets over vPC low q l2pt value: 15 Layer2 tunnel protocol vpc-peer-gw value: 21 Traffic to be redirected to vPC peer lisp-map-cache value: 22 Traffic to be redirected to LISP peer
<i>opts</i>	access-list-log value: 8 Packets copied to supervisor for access-list logging bfd value: 23 BFD protocol traffic exception value: 24 Catch-all exception traffic

<i>pps</i>	Type: integer min: 0 max: 10000 value in packets per sec
f1	Control packets from F1 modules to supervisor <i>Not available in this release.</i>
<i>fl-opts</i>	rl-1 value: 16 STP and Fabricpath-ISIS rl-2 value: 17 L3-ISIS and OTV-ISIS rl-3 value: 18 UDLD, LACP, CDP and LLDP rl-4 value: 19 Q-in-Q and ARP request rl-5 value: 20 IGMP, NTP, DHCP-Snoop, Port-Security and Mgmt traffic
disable	Disable the rate-limiter <i>Not available in this release.</i>
module	Specify a module number
<i>module</i>	Type: integer Specify a module number
port	Port range
<i>start</i>	Type: integer min: 1 max: 48 Port start index
<i>end</i>	Type: integer min: 1 max: 48 Port end index
burst	Modify burst parameter
<i>burst</i>	Type: integer min: 0 max: 10000 value of burst size

Command Modes

- /exec/configure

rate-mode

rate-mode *ratemode* [**force**]|**no rate-mode** [*ratemode*] [**force**]

Syntax Description

no Negate a command or set its defaults

rate-mode Enter the rate mode

force This option will shutdown all ports in port-group momentarily

ratemode Interface port speed

dedicated value: 1

rate mode is dedicated

shared value: 2

rate mode is shared

Command Modes

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

rd

rd {*ext-comm-rd-aa2nn4**ext-comm-rd-aa4nn2*}|**no rd** [{*ext-comm-rd-aa2nn4**ext-comm-rd-aa4nn2*}]

Syntax Description

no	Negate a command or set its defaults
rd	VPN Route Distinguisher <i>Not available in this release.</i>
<i>ext-comm-rd-aa4nn2</i>	Type: community VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	Type: community VPN route distinguisher in aa:nn format

Command Modes

- /exec/configure/vrf

redistribute-internal

[no] redistribute-internal

Syntax Description	no	Negate a command or set its defaults
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	redistribute-internal	iBGP redistribution into an IGP
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Command Modes	<ul style="list-style-type: none">• /exec/configure/router-bgp/router-bgp-af-ipv4• /exec/configure/router-bgp/router-bgp-vrf-af-ipv4• /exec/configure/router-bgp/router-bgp-af-ipv6• /exec/configure/router-bgp/router-bgp-vrf-af-ipv6
----------------------	---

redistribute bgp (ospf)

```
redistribute {bgp as|{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp} route-map
{policy-name|tr_pol_name}|no redistribute {bgp as|{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp}
[route-map {policy-name|tr_pol_name}]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
<i>tag</i>	Type: string Protocol Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
<i>policy-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>tr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes

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

redistribute bgp (ospfv3)

```
redistribute {bgp as|{eigrp|isis|ospfv3|rip} tag|static|direct|amt|lisp} route-map
{policy-name|rtr_pol_name}|no redistribute {bgp as|{eigrp|isis|ospfv3|rip} tag|static|direct|amt|lisp}
[route-map {policy-name|rtr_pol_name}]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospfv3	Open Shortest Path First (OSPFv3)
rip	Routing Information Protocol (RIP)
<i>tag</i>	Type: string Process Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
<i>policy-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>rtr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes

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

redistribute maximum-prefix (isis)

```
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]|no
redistribute maximum-prefix [maximum [threshold] [{warning-only|withdraw [retries timeout]}]]
```

Syntax Description	
no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	Type: integer min: 1 max: 65535 max number
<i>threshold</i>	Type: integer min: 1 max: 100 default: 75 Threshold in %, at which message is generated
warning-only	Warning msg is logged when max is reached
withdraw	Withdraw all redistributed routes
<i>retries</i>	Type: integer min: 1 max: 12 default: 1 No of times to retry to get redist routes again
<i>timeout</i>	Type: integer min: 60 max: 600 default: 300 Time between the retries

Command Modes • /exec/configure/router-isis/router-isis-af-ipv6

redistribute maximum-prefix (eigrp)

```
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]no
redistribute maximum-prefix [maximum [threshold] [{warning-only|withdraw [retries timeout]}]]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	Type: integer min: 1 max: 65535 max number
<i>threshold</i>	Type: integer min: 1 max: 100 default: 75 Threshold in %, at which message is generated
warning-only	Warning msg is logged when threshold is reached
withdraw	Withdraw all redistributed routes
<i>retries</i>	Type: integer min: 1 max: 12 default: 1 Number of attempts to receive redistributed routes after max is reached
<i>timeout</i>	Type: integer min: 60 max: 600 default: 300 Retry interval

Command Modes

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

redistribute maximum-prefix (isis)

```
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]|no
redistribute maximum-prefix [maximum [threshold] [{warning-only|withdraw [retries timeout]}]]
```

Syntax Description	
no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	Type: integer min: 1 max: 65535 max number
<i>threshold</i>	Type: integer min: 1 max: 100 default: 75 Threshold in %, at which message is generated
warning-only	Warning msg is logged when max is reached
withdraw	Withdraw all redistributed routes
<i>retries</i>	Type: integer min: 1 max: 12 default: 1 No of times to retry to get redist routes again
<i>timeout</i>	Type: integer min: 60 max: 600 default: 300 Time between the retries

Command Modes

- /exec/configure/router-isis/router-isis-vrf-common
- /exec/configure/router-isis/router-isis-af-ipv4

redistribute maximum-prefix (ospf)

```
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]no
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Type: integer min: 1 max: 65535 Maximum number of IP prefixes redistributed
<i>threshold</i>	Type: integer min: 1 max: 100 default: 75 Threshold value (%) at which to generate a warning message
warning-only	Log a warning message when limit is exceeded
withdraw	Withdraw all redistributed routes
<i>retries</i>	Type: integer min: 1 max: 12 default: 1 Number of times to retry to get the redistributed routes again
<i>timeout</i>	Type: integer min: 60 max: 600 default: 300 Timeout between each retries

Command Modes

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

redistribute maximum-prefix (ospfv3)

```
redistribute maximum-prefix maximum [threshold] [{warning-only|withdraw [retries timeout]}]no
redistribute maximum-prefix
```

Syntax Description		
no		Negate a command or set its defaults
redistribute		Redistribute information from another routing protocol
maximum-prefix		Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Type: integer min: 1 max: 65535	Maximum number of IP prefixes redistributed
<i>threshold</i>	Type: integer min: 1 max: 100 default: 75	Threshold value (%) at which to generate a warning message
warning-only		Log a warning message when limit is exceeded
withdraw		Withdraw all redistributed routes
<i>retries</i>	Type: integer min: 1 max: 12 default: 1	Number of times to retry to get the redistributed routes again
<i>timeout</i>	Type: integer min: 60 max: 600 default: 300	Timeout between each retries

Command Modes

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

redistribute route-map (bgp)

[no] redistribute {{eigrp|isis|ospfv3|rip} tag|static|direct|amt|lisp} route-map *rmap-name*

Syntax Description

no	Negate a command or set its defaults
redistribute	Configure redistribution
isis	ISO IS-IS
ospfv3	Open Shortest Path First, version 3 (OSPFv3)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>tag</i>	Type: string Source protocol tag

Command Modes

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

redistribute route-map (eigrp)

```
[no] redistribute {bgp as|{eigrp|isis|ospfv3|rip} tag|static|direct|amt|lisp} route-map
{map-name rtr_pol_name}
```

Syntax	Description
no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Type: string Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
<i>map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>rtr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes • /exec/configure/router-eigrp/router-eigrp-af-ipv6

redistribute route-map (isis)

```
[no] redistribute {bgp as|{eigrp|isis|ospfv3|rip} tag|static|direct|amt|lisp} route-map
{map-name|tr_pol_name}
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
eigrp	Enhanced Interior Gateway Protocol
<i>tag</i>	Type: string Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
<i>map-name</i>	Type: string length: 63 A 'routing-rules' route-map name
<i>tr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes

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

redistribute route-map (rip)

```
[no] redistribute {bgp as|{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp} route-map map-name
```

Syntax Description

no	Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
as	Type: asn Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Type: string Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Type: string pattern: [!~]* length: 63 Route-map name

Command Modes

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

redistribute route-map (bgp)

[no] redistribute {{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp} route-map *rmap-name*

Syntax Description

no	Negate a command or set its defaults
redistribute	Configure redistribution
isis	ISO IS-IS
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>tag</i>	Type: string Source protocol tag

Command Modes

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

redistribute route-map (eigrp)

```
[no] redistribute {bgp as|{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp} route-map
{map-name rtr_pol_name}
```

Syntax	Description
no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Type: string Process tag
static	Static routes
direct	Directly connected
lisp	LISP EID-prefixes
amt	AMT Anycast prefix
route-map	Route-map to constrain redistribution
<i>map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>rtr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes	
	<ul style="list-style-type: none"> • /exec/configure/router-eigrp/router-eigrp-vrf-common • /exec/configure/router-eigrp/router-eigrp-af-ipv4

redistribute route-map (isis)

```
[no] redistribute {bgp as|{eigrp|isis|ospf|rip} tag|static|direct|amt|lisp} route-map
{map-name|tr_pol_name}
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Type: asn Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv4
<i>tag</i>	Type: string Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
<i>map-name</i>	Type: string length: 63 A 'routing-rules' route-map name
<i>tr_pol_name</i>	Type: string An existing routing-rules policy

Command Modes

- /exec/configure/router-isis/router-isis-vrf-common
- /exec/configure/router-isis/router-isis-af-ipv4

redistribute route-map (rip)

[no] redistribute {**bgp** *asn* | {**eigrp** | **isis** | **ospfv3** | **rip**} *tag* | **static** | **direct** | **amt** | **lisp**} **route-map** *map-name*

Syntax Description

no	Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
<i>asn</i>	Type: asn Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
<i>tag</i>	Type: string Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
<i>map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name

Command Modes

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

reference-bandwidth

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

Syntax Description

no	Negate a command or set its defaults
reference-bandwidth	Change reference bandwidth used for setting interface metric
<i>ref-bw-mbps</i>	Type: uinteger min: 1 max: 4000000 default: 40000 Bandwidth in Mbps (Default)
Mbps	Specify in Mbps
<i>ref-bw-gbps</i>	Type: uinteger min: 1 max: 4000 default: 40 Bandwidth in Gbps
Gbps	Specify in Gbps

Command Modes

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

reload

reload

Syntax Description

reload reboot the entire box

Command Modes

- /exec

reload fex

reload fex {*all*}

Syntax Description

reload reboot the entire box

fex Reload Fex

all Reload all Fex
Modules

i Type: integer
min: 100 max: 199
Enter FEX identifier

Command Modes

• /exec

reload force

reload force

Syntax Description	reload reboot the entire box
---------------------------	-------------------------------------

	force reload without prompting
--	---------------------------------------

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

reload kexec

`reload kexec s0 s1`

Syntax Description

reload reboot the entire box

kexec reboot using kexec

s0 Type: string
please enter the boot image name

s1 Type: string
please enter the isan image name

Command Modes

• /exec

reload module

reload module *module*

Syntax Description

reload reboot the entire box

module reboot a specific module *Available only in the 9500 series.*

module Type: integer

please enter the module number

Command Modes

- /exec

reload module force-dnld

reload module *module* force-dnld

Syntax Description

reload reboot the entire box

module reboot a specific module *Available only in the 9500 series.*

module Type: integer

please enter the module number

force-dnld reboot a specific module to force NetBoot and image download

Command Modes

• /exec

reload module hard

reload module *module* hard

Syntax Description

reload reboot the entire box

module reboot a specific module *Available only in the 9500 series.*

module Type: integer

please enter the module number

hard hard reboot a specific module

Command Modes

• /exec

reload restore

reload restore [**delay** *time-out*]|**no reload restore**

Syntax Description

no Negate a command or set its defaults

reload Settings for vpc action on reload with vpc configs

restore restore vpcs assuming peer is not functional

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

reload vdc (vdc_mgr)

reload vdc

Syntax Description	vdc Restart the current vdc
	reload Power cycle
Command Modes	• /exec

reload vdc (vdc_mgr)

reload vdc *d-vdc*

Syntax Description

vdc Restart the current vdc

reload Power cycle

d-vdc Type: userdef

Enter Virtual Device Context <vdc-id>

Command Modes

• /exec

remark

{[*seqno*]|**no**} **remark** *comment*

Syntax Description

no Negate a command or set its defaults

seqno Type: uinteger
min: 1 max: 4294967295
Sequence number

remark Access list entry comment

comment Type: remainder
Comment, up to 100 characters

Command Modes

- /exec/configure/ipacl
- /exec/configure/ipv6acl
- /exec/configure/macacl
- /exec/configure/arpacl
- /exec/configure/timerange

remote-span

[no] remote-span

Syntax Description	no Negate a command or set its defaults
	remote-span Enable remote span VLAN
Command Modes	• /exec/configure/vlan

remove-private-as

[{no|default}] **remove-private-as** [{all|replace-as}]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
remove-private-as	Remove private AS number from outbound updates
all	All
replace-as	Replace

Command Modes

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

remove-routes vni

`remove-routes vni vni-id`

Syntax Description

`remove-routes` NVE Peer

`vni` Virtual Network Identifier

`vni-id` Type: integer
VNI

Command Modes

- /exec/configure/if-nve

replication mode unicast

`replication mode unicast|no replication mode unicast`

Syntax Description	no	Negate a command or set its defaults
	replication	Replication
	mode	Replication mode
	unicast	Unicast mode
Command Modes	• /exec/configure/if-nve	

resequence

resequence {*ip_ipv6_mac_arp* **access-list**|**time-range**} *name number increment*

Syntax Description

resequence Resequence a list with sequence numbers

ip_ipv6_mac_arp IP/IPv6/MAC/ARP

ip value: 9

Display IP information

ipv6 value: 10

Display IPv6 information

mac value: 11

MAC configuration commands

arp value: 12

ARP access-list configuration commands

access-list Resequence an access list

time-range Resequence a time-range

name Type: string

length: 64

List name

number Type: uinteger

min: 1 max: 4294967295

Starting sequence number

increment Type: uinteger

min: 1 max: 4294967295

Step to increment the sequence number

Command Modes

- /exec/configure

restart bgp

`restart bgp as`

Syntax Description

restart Manually restart a component

bgp Border Gateway Protocol (BGP)

Command Modes

• /exec

restart eigrp

restart eigrp *eigrp-ptag*

Syntax Description

restart Manually restart a component

eigrp Enhanced Interior Gateway Routing Protocol (EIGRP)

eigrp-ptag 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

Command Modes

• /exec

restart igmp

restart igmp

Syntax Description

restart Manually restart a component

igmp Restart the IGMP multicast routing protocol

Command Modes

• /exec

restart isis

`restart isis tag`

Syntax Description

restart Manually restart a component

isis Intermediate System to Intermediate System (IS-IS)

tag Type: string

pattern: [a-zA-Z0-9_-][a-zA-Z0-9_-]*

length: 20

Routing process tag

Command Modes

- /exec

restart l3vm

restart l3vm

Syntax Description

restart Manually restart a component

l3vm Display VRF information

Command Modes

• /exec

restart msdp

restart msdp

Syntax Description

restart Manually restart a component

msdp Restart the MSDP multicast routing protocol

Command Modes

• /exec

restart nve

restart nve

Syntax Description

restart Restart

nve NVE
Manager

Command Modes

• /exec

restart oim

restart oim

Syntax Description

restart Manually restart a component

oim oim

Command Modes

• /exec/configure

restart orib

restart orib

Syntax Description	restart Manually restart a component
	orib OTV RIB (ORIB)
Command Modes	• /exec

restart ospf

restart ospf tag

Syntax Description

restart Manually restart a component

ospf Open Shortest Path First (OSPF)

tag Type: string

pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]*

antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redistrib | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf

length: 20

Process tag

Command Modes

- /exec

restart ospfv3

restart ospfv3 tag

Syntax Description

restart Manually restart a component

ospfv3 Open Shortest Path First (OSPF) (Version 3)

tag Type: string

pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]*

antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redist | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf

length: 20

Process tag

Command Modes

- /exec

restart pim

restart pim

Syntax Description

restart Manually restart a component

pim Restart the PIM multicast routing protocol

Command Modes

• /exec

restart pim6

restart pim6

Syntax Description

restart Manually restart a component

pim6 Restart the PIM6 multicast routing protocol

Command Modes

• /exec

restart rip

restart rip *tag*

Syntax Description

restart Manually restart a component

rip Routing Information Protocol (RIP)

tag Type: string

pattern: [a-zA-Z0-9_-][a-zA-Z0-9_]*

length: 20

Process ID

Command Modes

- /exec

restart rpm

restart rpm

Syntax Description	restart Manually restart a component
	rpm Route Policy Manager (RPM)
Command Modes	• /exec

retain route-target

[no] retain route-target {all|route-map *rmap-name*}

Syntax Description

no	Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</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-af-ipv6
- /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

retransmit-interval (ospf)

`retransmit-interval interval`|`no retransmit-interval [interval]`

Syntax Description

no Negate a command or set its defaults

retransmit-interval Packet retransmission interval

interval Type: integer

min: 1 max: 65535 default: 5

(seconds)

Command Modes

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

retransmit-interval (ospf)

`retransmit-interval interval`|`no retransmit-interval [interval]`

Syntax Description

no Negate a command or set its defaults

retransmit-interval Packet retransmission interval

interval Type: integer
min: 1 max: 65535 default: 5
(seconds)

Command Modes

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

retransmit-interval (ospfv3)

`retransmit-interval interval|no retransmit-interval [interval]`

Syntax Description

no Negate a command or set its defaults

retransmit-interval Packet retransmission interval

interval Type: integer
min: 1 max: 65535 default: 5
(seconds)

Command Modes

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

revision

revision *rev-id* | **no revision** [*rev-id*]

Syntax Description

no Negate a command or set its defaults

revision Set configuration revision number

rev-id Type: uinteger

min: 0 max: 65535

Configuration revision number

Command Modes

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

revocation-check

[no] revocation-check {crl [none]|none}

Syntax Description	
no	Negate a command or set its defaults
revocation-check	Configure trustpoint revocation check methods
crl	Configure revocation check using crl
none	Configure revocation check using none
none	Configure revocation check using none

Command Modes	
	• /exec/configure/trustpoint

rfc1583compatibility

[no] rfc1583compatibility

Syntax Description

no Negate a command or set its defaults

rfc1583compatibility Configure 1583 compatibility for external path preferences

Command Modes

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

rip

{ip} rip {metric-offset|offset-list} metric|no {ip} rip {metric-offset|offset-list} [metric]

Syntax	Description
no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
metric-offset	RIP metric for interface
offset-list	RIP metric for interface
<i>metric</i>	Type: integer min: 1 max: 15 default: 1 RIP metric value

Command Modes • /exec/configure/if-igp

rip passive-interface

[no] {ip} rip passive-interface

Syntax	Description
no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
passive-interface	RIP passive interface

Command Modes • /exec/configure/if-igp

rip poison-reverse

[no] {ip} rip poison-reverse

Syntax Description	no	Negate a command or set its defaults
	ip	Configure IP features
	rip	RIP configuration commands
	poison-reverse	RIP poison reverse (default split-horizon)

Command Modes • /exec/configure/if-igp

rip route-filter

[no] {ip} rip route-filter {route-map *map*|prefix-list *list*} {in|out}

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
route-filter	RIP route filtering
route-map	route-map policy to constrain route filtering
prefix-list	prefix-list policy to constrain route filtering
<i>map</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>list</i>	Type: string length: 100 prefix-list name
in	inbound
out	outbound

Command Modes

- /exec/configure/if-igp

rip shutdown

[no] rip shutdown

Syntax Description	no	Negate a command or set its defaults
	rip	RIP configuration commands
	shutdown	Shutdown RIP on this interface

Command Modes • /exec/configure/if-igp

rmdir

rmdir {*uri0uri1*}

Syntax Description

rmdir Delete a directory

uri0 Type: uri

Delete a directory

uri1 Type: uri

Delete a directory on expansion flash

Command Modes

- /exec

rmon alarm rising-threshold falling-threshold

```
rmon alarm i0 s0 i1 {absolute|delta} rising-threshold i2 [i3] falling-threshold i4 [i5] [owner s1]|no rmon alarm i0
```

Syntax	Description
no	Negate a command or set its defaults
rmon	Remote Monitoring
alarm	Configure an RMON alarm
<i>i0</i>	Type: integer min: 1 max: 65535 Alarm number
<i>s0</i>	Type: string MIB object to monitor
<i>i1</i>	Type: uinteger min: 1 max: 700000 Sample interval
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
<i>i2</i>	Type: integer min: 2147483648 max: 2147483647 Rising threshold value
<i>i3</i>	Type: integer min: 0 max: 65535 Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<i>i4</i>	Type: integer min: 2147483648 max: 2147483647 Falling threshold value
<i>i5</i>	Type: integer min: 0 max: 65535 Event to fire on falling threshold crossing

owner	Specify an owner for the alarm
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<i>sl</i>	Type: string
	Alarm owner

Command Modes

- /exec/configure

rmon event

rmon event *i0* [**log**] [**trap** *s0*] [**description** *s1*] [**owner** *s2*]|**no rmon event** *i0*

Syntax	Description
no	Negate a command or set its defaults
rmon	Remote Monitoring
event	Configure an RMON event
<i>i0</i>	Type: integer min: 1 max: 65535 Event number
log	Generate RMON log when the event fires
trap	Generate SNMP trap when event fires
<i>s0</i>	Type: string length: 32 SNMP community string
description	Specify a description of the event
<i>s1</i>	Type: string Event description
owner	Specify an owner for the event
<i>s2</i>	Type: string Event owner
Command Modes	• /exec/configure

rmon hcalarm startupalarm rising-threshold falling-threshold owner

```
rmon hcalarm i0 s0 i1 {absolute|delta} startupalarm i2 rising-threshold i3 i4 falling-threshold
i5 i6 owner s1|no rmon hcalarm i0
```

Syntax	Description
no	Negate a command or set its defaults
rmon	Remote Monitoring
hcalarm	Configure an High Capacity RMON alarm
<i>i0</i>	Type: integer min: 1 max: 65535 Alarm number
<i>s0</i>	Type: string MIB object to monitor
<i>i1</i>	Type: uinteger min: 1 max: 700000 Sample interval
absolute	Test each sample directly
delta	Test delta between samples
startupalarm	Configure alarm type
<i>i2</i>	Type: integer min: 1 max: 3 Startup alarm type, rising(1) falling(2) risingorfalling(3)
rising-threshold	Configure the rising threshold
<i>i3</i>	Type: longlong Rising threshold value in bytes
<i>i4</i>	Type: integer min: 0 max: 65535 Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold

<i>i5</i>	Type: longlong Falling threshold value in bytes
<i>i6</i>	Type: integer min: 0 max: 65535 Event to fire on falling threshold crossing
owner	Specify an owner for the alarm
<i>s1</i>	Type: string Alarm owner

Command Modes

- /exec/configure

role feature-group name

[no] role feature-group name *arg6*

Syntax Description

no	Negate a command or set its defaults
role	Configure roles
feature-group	Configure role feature-group
name	Feature-group name
<i>arg6</i>	Type: string length: 32 Enter feature-group name

Command Modes

- /exec/configure

role name

[no] **role name** *arg2*

Syntax Description

no Negate a command or set its defaults

role Configure roles

name Enter the role name

arg2 Type: userdef

Enter the role name

Command Modes

• /exec/configure

role priority

role priority *priority_value* | **no role priority**

Syntax Description

no	Negate a command or set its defaults
role	Role related configuration
priority	Configure priority to be used during vPC role (primary/secondary) election
<i>priority_value</i>	Type: integer min: 1 max: 65535 specify priority value

Command Modes

- /exec/configure/vpc-domain

rollback progress stats

[no] rollback progress stats

Syntax Description	
no	negate the command
rollback	Rollback configuration
progress	Rollback progress
stats	Enable rollback progress stats

Command Modes	
	• /exec

rollback running-config

```
rollback running-config {checkpoint chkpoint_name|file file_uri}
[ {best-effort|stop-at-first-failure|atomic} ] [verbose]
```

Syntax Description		
rollback		Rollback configuration
running-config		Rollback running configuration
checkpoint		Rollback running configuration to checkpoint
<i>chkpoint_name</i>	Type: string length: 80	Checkpoint name
file		Rollback running configuration to configuration file
<i>file_uri</i>	Type: uri	Checkpoint file path
best-effort		Skip errors and proceed with rollback
stop-at-first-failure		Stop rollback at the first error
atomic		Stop rollback and revert to original configuration (default)
verbose		Show the execution log

Command Modes

- /exec

route-map

route-map *route-map-name* [{**permit**|**deny**}] [*seq*]**no route-map** {*route-map-name*|*route-map-name*} [{**permit**|**deny**}] [*seq*]

Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>route-map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>route-map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>route-map-name</i>	Type: string Known route-map name
permit	Route map permits set operations
deny	Route map denies set operations
<i>seq</i>	Type: integer min: 0 max: 65535 Sequence to insert to/delete from existing route-map entry

Command Modes

- /exec/configure

route-map pbr-statistics

route-map *route-map-name* **pbr-statistics**|**no route-map** {*route-map-name**route-map-name*} **pbr-statistics**

Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>route-map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>route-map-name</i>	Type: string pattern: [!~]* length: 63 Route-map name
<i>route-map-name</i>	Type: string Known route-map name
pbr-statistics	Statistics for policy based routing

Command Modes

- /exec/configure

route-reflector-client

[{no|default}] **route-reflector-client**

Syntax Description		
	no	Negate a command or set its defaults
	default	Inherit values from a peer template
	route-reflector-client	Configure a neighbor as Route reflector client

Command Modes	
	<ul style="list-style-type: none">• /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-neighbor/router-bgp-neighbor-af-l2vpn-vpls

route-target both

route-target both {*ext-comm-rt-aa2nn4ext-comm-rt-aa4nn2*}|**no route-target both** [*ext-comm-rt-aa2nn4ext-comm-rt-aa4nn2*]

Syntax Description		
no		Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
both		Export And Import Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	Type: community	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	Type: community	RT extcommunity in aa:nn format

- Command Modes**
- /exec/configure/vrf-af-ipv4
 - /exec/configure/vrf-af-ipv6

route-target export

route-target export {*ext-comm-rt-aa2nn4ext-comm-rt-aa4nn2*}|**no route-target export** {*ext-comm-rt-aa2nn4ext-comm-rt-aa4nn2*}

Syntax Description		
no		Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
export		Export Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	Type: community	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	Type: community	RT extcommunity in aa:nn format

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

route-target import

route-target import {*ext-comm-rt-aa2nn4**ext-comm-rt-aa4nn2*}|**no route-target import** {*ext-comm-rt-aa2nn4**ext-comm-rt-aa4nn2*}

Syntax Description		
no		Negate a command or set its defaults
route-target		Specify Target VPN Extended Communities
import		Import Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	Type: community	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	Type: community	RT extcommunity in aa:nn format

- Command Modes**
- /exec/configure/vrf-af-ipv4
 - /exec/configure/vrf-af-ipv6

router-id (bgp)

[no] **router-id** *router-id*

Syntax Description	no Negate a command or set its defaults
	router-id Specify the IP address to use as router-id
	<i>router-id</i> Type: ipaddr
	Manually configured router identifier
Command Modes	• /exec/configure/router-bgp/vrf-cmds

router-id (ospf)

router-id *id*/**no router-id** [*id*]

Syntax Description	no	Negate a command or set its defaults
	router-id	Set OSPF process router-id
	<i>id</i>	Type: ipaddr Router ID Value
Command Modes	<ul style="list-style-type: none">• /exec/configure/router-ospf• /exec/configure/router-ospf/vrf	

router-id (ospfv3)

`router-id` *id* | `no router-id` [*id*]

Syntax Description	no	Negate a command or set its defaults
	router-id	Set OSPFv3 process router-id
	<i>id</i>	Type: ipaddr Router ID Value
Command Modes	<ul style="list-style-type: none">• /exec/configure/router-ospf3• /exec/configure/router-ospf3/vrf	

router bgp

[no] **router bgp** *as*

Syntax Description

no Negate a command or set its defaults

router Enable a routing process

bgp Border Gateway Protocol (BGP)

Command Modes

• /exec/configure

router eigrp (eigrp)

[no] {ip|ipv6} router eigrp *eigrp-ptag*

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
router	Enable a routing process
eigrp	Configure an EIGRP routing process on interface
<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

Command Modes

- /exec/configure/if-igp

router eigrp (eigrp)

[no] **router eigrp** *eigrp-ptag*

Syntax Description

no Negate a command or set its defaults

router Enable a routing process

eigrp Enhanced Interior Gateway Routing Protocol (EIGRP)

eigrp-ptag 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

Command Modes

- /exec/configure

router isis

[no] **router isis** *tag*

Syntax Description

no Negate a command or set its defaults

router Enable a routing process

isis Intermediate System to Intermediate System (IS-IS)

tag Type: string
pattern: [a-zA-Z0-9_-][a-zA-Z0-9_-]*
length: 20
Routing process tag

Command Modes

- /exec/configure

router ospf

[no] **router ospf** *tag*

Syntax Description

no Negate a command or set its defaults

router Enable a routing process

ospf Open Shortest Path First (OSPF)

tag Type: string

pattern: [a-zA-Z0-9][a-zA-Z0-9_-]*

antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redistrib | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf

length: 20

Process tag

Command Modes

- /exec/configure

router ospfv3

[no] **router ospfv3 tag**

Syntax Description

no Negate a command or set its defaults

router Enable a routing process

ospfv3 Open Shortest Path First (OSPF) (Version 3)

tag Type: string

pattern: [a-zA-Z0-9_][a-zA-Z0-9_-]*

antipattern: adjacency | all | border-routers | database | database-timers | events | flooding | graceful-restart | hello | interface | internal | lsa-content-changed-list | lsa-generation | memory | mpls | neighbor | neighbors | packets | policy | redistrib | request-list | retransmission | retransmission-list | route | spf | spf-trigger | statistics | summary-address | traffic | virtual-links | vrf

length: 20

Process tag

Command Modes

- /exec/configure

router rip (rip)

[no] ip router rip *tag*

Syntax Description

no Negate a command or set its defaults

ip Configure IP features

router Enable a routing process

rip Routing Information Protocol (RIP)

tag Type: string

pattern: [a-zA-Z0-9_-][a-zA-Z0-9_]*

length: 20

Process tag

Command Modes

- /exec/configure/if-igp

router rip (rip)

[no] **router rip** *tag*

Syntax Description	no Negate a command or set its defaults
	router Enable a routing process
	rip Routing Information Protocol (RIP)
	tag Type: string pattern: [a-zA-Z0-9_-][a-zA-Z0-9_-]* length: 20 Process ID
Command Modes	• /exec/configure

routing-context vrf

routing-context vrf *vrf-known-name*

Syntax Description

routing-context Set the routing context

vrf The new routing-context VRF

vrf-known-name Type: vrf
Known VRF name

Command Modes

- /exec

routing multicast file-debug

[no] {ip|ipv4} routing multicast file-debug

Syntax Description		
	no	Negate a command or set its defaults
	ip	Configure IP features
	ipv4	Configure IP features
	routing	Routing information
	multicast	Configure multicast
	file-debug	Collect all debugs to a file
Command Modes		• /exec/configure

routing multicast holddown

```
{ip|ipv4} routing multicast holddown {route-holddown-sec|none}|no {ip|ipv4} routing multicast holddown [{route-holddown-sec}]
```

Syntax	Description
no	Negate a command or set its defaults
ip	Configure IP features
ipv4	Configure IP features
routing	Routing information
multicast	Configure multicast
holddown	Initial holddown period
<i>route-holddown-sec</i>	Type: uinteger min: 90 max: 210 default: 210 Delay in seconds
<i>none</i>	Type: uinteger min: 0 max: 0 Disable holddown

Command Modes

- /exec/configure

rsakeypair

[no] **rsakeypair** *s0* [*i0*]

Syntax	Description
no	Negate a command or set its defaults
rsakeypair	Configure trustpoint rsa key-pair details
<i>s0</i>	Type: string length: 64 key-pair label
<i>i0</i>	Type: integer min: 512 max: 2048 key-pair size

Command Modes • /exec/configure/trustpoint

rule

rule *number* *action* [*permission* [*featuretype* *name*]]**command** *cmd_line* | **no** *rule* *number*

Syntax Description

no Negate a command or set its defaults

rule Enter the rule number

number Type: integer
min: 1 max: 256
Enter the rule number

action Action

permit value: 1
Permit rule

deny value: 2
Deny rule

permission Permission

read value: 1
Read access

read-write value: 2
Read and write access

command Command line

cmd_line Type: remainder
Enter the command (use space+';' for command separator) e.g. config t ; role *

featuretype Feature type

feature value: 2
Feature name

feature-group value: 3
Feature group name

name Type: string
length: 32
Enter the access entity name

Command Modes

- /exec/configure/role

rule oid

rule *number* *action* *permission* **oid** *snmp_oid* [**no** **rule** *number*]

Syntax Description	
no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Type: integer min: 1 max: 256 Enter the rule number
<i>action</i>	Action permit value: 1 Permit rule deny value: 2 Deny rule
<i>permission</i>	Permission read value: 1 Read access read-write value: 2 Read and write access
oid	SNMP oid (up to 32 elements)
<i>snmp_oid</i>	Type: string length: 1024 Enter snmp oid instance name
Command Modes	• /exec/configure/role

run-script

run-script *uri0*

Syntax Description

run-script Run shell scripts

uri0 Type: uri
 Enter script file
 name

Command Modes

- /exec

run-show-tech-script

`run-show-tech-script` *s0*

Syntax Description

`run-show-tech-script` Run show tech script

s0 Type: string
fname

Command Modes

• /exec

run bash

run bash [*cmd*]

Syntax Description

run execute/run program *Not available in this release.*

bash linux-bash *Not available in this release.*

cmd Type: remainder
the command to execute

Command Modes

- /exec