

# C Commands

## cache entries

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<b>Description</b>	Sets the number of entries in the aggregation cache. The <b>no</b> version sets the number of entries to the default value.
<b>Syntax</b>	<code>cache entries <i>entryNumber</i></code> <code>no cache entries</code> <ul style="list-style-type: none"><li>■ <i>entryNumber</i>—Number of entries in the aggregation cache in the range 1024—524288; default value is 4096</li></ul>
<b>Mode</b>	Flow Cache Configuration
<b>Release Information</b>	Command introduced in JUNOS Release 8.1.0.

## cache timeout

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<b>Description</b>	Sets the active and inactive aging timers. The <b>no</b> version resets the default values.
<b>Syntax</b>	<code>cache timeout { active <i>activeTimer</i>   inactive <i>inactiveTimer</i> }</code> <code>no cache timeout</code> <ul style="list-style-type: none"><li>■ <i>activeTimer</i>—Active aging timer in the range 1—60</li><li>■ <i>inactiveTimer</i>—Inactive aging timer in the range 10—600</li></ul>
<b>Mode</b>	Flow Cache Configuration
<b>Release Information</b>	Command introduced in JUNOS Release 8.1.0.

## cablelength

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<b>Description</b>	Specifies the length of the cable, which determines power requirements. The <b>no</b> version uses the default value, 0 feet.
<b>Syntax</b>	<code>cablelength <i>length</i></code> <code>no cablelength</code> <ul style="list-style-type: none"><li>■ <i>length</i>—Cable length in the range 0—450 feet</li></ul>
<b>Mode</b>	Controller Configuration
<b>Release Information</b>	Command introduced before JUNOS Release 7.1.0.

**cbr**

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**Description** In ATM VC Configuration mode, configures the constant bit rate (CBR) service category on an ATM PVC. You must specify the peak cell rate (PCR) value. The **cbr** command is valid only for data PVCs; you cannot use this command for control (ILMI or signaling) PVCs. The **no** version restores the default service category, unspecified bit rate (UBR) without a PCR.

In ATM VC Class Configuration mode, configures the CBR service category as part of a VC class definition that you assign to an ATM data PVC. The **no** version restores the default service category, UBR without a PCR, in the VC class.

**Syntax** `cbr pcr`  
`no cbr`

- *pcr*—Peak cell rate, in Kbps, in the range 1–149760 (for OC3 ATM modules) or 1–599040 (for OC12 ATM modules)

**Mode** ATM VC Configuration, ATM VC Class Configuration

**Release Information** Command introduced in JUNOS Release 7.1.0.  
 ATM VC Class Configuration mode added in JUNOS Release 7.3.0.

**channelized**

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**Description** Configures a port on the CT3/T3-F0 line module and associated I/O module to support channelized T3 operation. The **no** version configures the port for unchannelized operation.

**Syntax** `[ no ] channelized`

**Mode** Controller Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## check-disk

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**Description** Finds and repairs structural inconsistencies and damage in the DOS file system in unmounted flash cards on the primary SRP module. There is no **no** version.

**Syntax** `check-disk [ repair ] [ disk0 | disk1 ]`

- `disk0`—Specifies flash card in slot 0 of the SRP module; default value is `disk0`; available only in Boot mode, because `disk0` cannot be in an unmounted state in a router outside of Boot mode
- `disk1`—Specifies flash card in slot 1 of the SRP module; supported only on the E120 router and the E320 router

**Mode** Boot, Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**disk0** and **disk1** keywords added in JUNOS Release 7.2.0.  
Privileged Exec mode added in JUNOS Release 8.0.0.

## check-vpn-next-hops

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**Description** Enables a BGP speaker to take the reachability of the next hop on received VPNv4 or VPNv6 routes into account when it determines the best route to a prefix. Checking the reachability is disabled by default. The **no** version explicitly disables reachability checking.

**Syntax** `[ no ] check-vpn-next-hops`

**Mode** Address Family Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## classifier-group

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**Description** Creates a classifier group for a policy list and assigns precedence to the specific CLACL in the group. This command accesses Classifier Group Configuration mode, in which you create policy rule configurations related to the specified CLACL. If a parent group was not created by the **parent-group** command, the **parent-group** keyword creates a parent group in a rate-limit hierarchy for IP, IPv6, L2TP, and MPLS. All packets matching the classifier are sent to the parent group for further processing, except for packets dropped by the classifier using the filter rule. More than one classifier group can have the same parent group, which enables you to create hierarchies. The **no** version removes the classifier group and its rules from the policy list.

**Syntax** `classifier-group { * | classifierName } [ precedence precValue ] [ parent-group parentGroupName ] [ external parent-group externalParentGroupName parameter parameterName ]`  
`no classifier-group { * | classifierName }`

- *\**—Specifies that the router selects all packets from the interface associated with the policy list for this classifier group
- *classifierName*—Name of a specific CLACL used to classify packets in this policy list
- *precValue*—Precedence value for the CLACL, in the range 0–65535; a value of 100 is assigned if no value is specified
- *parentGroupName*—Name of the parent group; if the parent group does not exist, naming the parent group creates an empty parent group



**NOTE:** Secure policy lists, which are used for packet mirroring operations, do not support named classifier groups. You must use **classifier-group \***. Also, secure policy lists do not support the **precedence** keyword.

- *externalParentGroupName*—External parent group name
- *parameterName*—Parameter name

**Mode** Policy List Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**parent-group** keyword and *parentGroupName* variable added in JUNOS Release 7.2.0.  
**external parent-group** keyword and *externalParentGroupName* variable added in JUNOS Release 8.0.0.

### Related Topics

- Creating a Classifier Group for a Policy List
- Configuring CLI-Based Mirroring

## class-int

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**Description** When issued from Interface Configuration mode, assigns a previously configured VC class to an ATM major interface. When issued from Subinterface Configuration mode, assigns a previously configured VC class to a static ATM 1483 subinterface. Issuing this command applies the set of attributes in the specified VC class to the ATM data PVCs statically or dynamically created on the ATM major interface or ATM 1483 subinterface. The **no** version removes the VC class association with the interface or subinterface, and causes the router to set the PVC attributes to their systemwide default values, or to the values set in the associated VC class with the next highest order of precedence.

**Syntax** `class-int vcClassName`  
`no class-int [ vcClassName ]`

- *vcClassName*—Name of the VC class configured with the **vc-class atm** command

**Mode** Interface Configuration, Subinterface Configuration

**Release Information** Command introduced in JUNOS Release 7.3.0.

## class-vc

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**Description** Assigns a previously configured VC class to an individual ATM data PVC. The **class-vc** command is valid only for data PVCs created with the **pvc** command; it has no effect for data PVCs created with the **atm pvc** command, or for control (ILMI or signaling) PVCs. Issuing this command applies the set of attributes in the specified VC class to the ATM data PVC. The **no** version removes the VC class association with the ATM PVC.

**Syntax** `class-vc vcClassName`  
`no class-vc [ vcClassName ]`

- *vcClassName*—Name of the VC class configured with the **vc-class atm** command

**Mode** ATM VC Configuration

**Release Information** Command introduced in JUNOS Release 7.3.0.

## cleanup-timeout-factor

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**Description** Specifies the number of refresh messages that can be lost before the PATH or RESV state is ended. The **no** version restores the default value, 3.

**Syntax** cleanup-timeout-factor *lostRefreshes*  
no cleanup-timeout-factor

- *lostRefreshes*—Number of lost refresh messages

**Mode** RSVP Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear access-list

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**Description** Clears counters for entries in IP access lists. There is no **no** version.

**Syntax** clear access-list [ *accessListName* ]

- *accessListName*—Name of the access list; string of 1–32 alphanumeric characters

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear arp

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**Description** Clears entries from the ARP cache. There is no **no** version.

**Syntax** clear [ ip ] arp [ vrf *vrfName* ] { *ipAddress* *interfaceType* *interfaceSpecifier* | \* }

- *vrfName*—Name of the VRF; string of 1–32 alphanumeric characters
- *ipAddress*—IP address in 32-bit dotted-decimal format of the entry to be cleared
- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*
- \*—Clears all dynamic ARP entries

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear bfd adapted-intervals

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**Description** Resets adapted timer intervals for all BFD sessions on the router. There is no **no** version.

**Syntax** clear bfd adapted-intervals

**Mode** Global Configuration

**Release Information** Command introduced in JUNOS Release 7.3.0.

## clear bfd session

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**Description** Restarts all BFD sessions or a specified BFD session. There is no **no** version.

**Syntax** clear bfd session [ address *ipAddress* | discriminator *discriminatorID* ]

- *ipAddress*—IP address of the destination to which the session has been established
- *discriminatorID*—Unique system-wide identifier for the BFD session; integer in the range 1–4294967295

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear bgp ipv6

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**Description** Resets the IPv6 BGP session. If the **soft** option is not used, brings down the underlying TCP connection and then brings it back up again, causing both peers to resend their complete BGP routing table. If the **soft out** option is used, the BGP speaker reapplies outbound policy and resends all routes to the specified peer(s). If the **soft in** option is used, the BGP speaker reapplies inbound policy to the routes received from the specified peers. This is possible only if soft reconfiguration inbound has been enabled for the peer or the peer supports the route-refresh capability. There is no **no** version.

**Syntax** `clear bgp ipv6 [ unicast | multicast | vpnv6 | route-target signaling ]  
[ ipAddress | ipv6Address | peer-group peerGroupName | * ] [ vrf vrfName ]  
[ soft [ in | out ] ]`

- **unicast**—Clears the unicast routing table; the default option
- **multicast**—Clears the multicast routing table
- **vpnv6**—Clears the VPNv6 unicast routing and forwarding table
- **route-target signaling**—Clears the route-target membership information
- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- **\***—Clears all connections
- *vrfName*—Name of a virtual routing and forwarding instance to clear
- **soft**—Specifies soft reconfiguration
  - **in**—Triggers inbound soft reconfiguration
  - **out**—Triggers outbound soft reconfiguration

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.  
**route-target signaling** keywords added in JUNOS Release 8.2.0.



## clear bgp ipv6 dampening

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**Description** Clears IPv6-specific BGP route flap dampening information and reinstates the suppressed routes. If the *ipv6Prefix* option is not used, clears the entire IPv6 BGP routing table. The **dampening** keyword and the **flap-statistics** keyword both have the same effect. There is no **no** version.

**Syntax** To clear IPv6-specific information for only the route-target address family:

```
clear bgp ipv6 route-target signaling  
{ dampening | flap-statistics } [ rtfPrefix | rtfAddress ]
```

To clear IPv6-specific information for any case other than for the route-target address family:

```
clear bgp ipv6 [ vrf vrfName ] [ unicast | multicast | vpnv6 ]  
{ dampening | flap-statistics } [ ipv6Prefix ]
```

- route-target signaling—Clears the route-target membership information
- *rtfPrefix*—Prefix representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity/prefixLength* (for example, 320:320:524/36) where:
  - *asNumber*—AS number for origin of route target information, in the range 1–4294967295
  - *extendedCommunity*—Two-part number in the format *number1:number2* that identifies an extended community of VPNs, in the format *number1:number2*, where:
    - *number1*—Autonomous system (AS) number, in the range 1–4294967295, or an IP address
    - *number2*—Unique integer, in the range 1–4294967295; 32 bits if *number1* is a 16-bit AS number; 16 bits if *number1* is an IP address or a 32-bit AS number
  - *prefixLength*—Number that specifies the length of the route prefix, in the range 32–96
- *rtfAddress*—*rtfPrefix* with a prefix length of 96; representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity* (for example, 320:320:524 or 320:50.2.3.4:524)
- *vrfName*—Name of a virtual routing and forwarding instance to clear
- unicast—Clears the unicast routing table; the default option
- multicast—Clears the multicast routing table
- vpnv6—Clears the VPNv6 unicast routing and forwarding table
- *ipv6Prefix*—IPv6 network for which to clear dampening information

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**route-target signaling** keywords and *rtMemNlri* variable added in JUNOS Release 8.2.0.  
*rtMemNlri* variable replaced by two variables, *rtfAddress* and *rtfPrefix*, in JUNOS Release 9.1.0.

## clear bgp ipv6 dynamic-peers

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**Description** Removes all IPv6-specific dynamic peers in the specified scope. There is no **no** version.

**Syntax** clear bgp ipv6 [ *ipAddress* | *ipv6Address* | peer-group *peerGroupName* | \* ]  
[ vrf *vrfName* ] dynamic-peers

- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- \*—Clears all connections
- *vrfName*—Name of a virtual routing and forwarding instance to clear

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.

## clear bgp ipv6 redistribution

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**Description** Clears all IPv6 routes that have been redistributed into BGP. There is no **no** version.

**Syntax** clear bgp ipv6 [ unicast | multicast ] redistribution

- unicast—Clears the unicast routing table; the default option
- multicast—Clears the multicast routing table

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear bgp ipv6 wait-end-of-rib

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**Description** Resets the IPv6 BGP session and brings down the underlying TCP connection and then brings it back up again, causing both peers to resend their complete BGP routing table. Clears the specified peer from the set of peers for which BGP is waiting to receive an End-of-RIB marker after a peer restart. Hard clearing a peer has the same effect for that peer. There is no **no** version.

**Syntax** clear bgp ipv6 [ unicast | multicast | vpnv6 | route-target signaling ] [ vrf *vrfName* ] [ *ipAddress* | *ipv6Address* | peer-group *peerGroupName* | \* ] wait-end-of-rib

- unicast—Clears the unicast routing table; the default option
- multicast—Clears the multicast routing table
- vpnv6 —Clears the VPNv6 unicast routing and forwarding table
- route-target signaling—Clears the route-target membership information
- *vrfName*—Name of a virtual routing and forwarding instance to clear
- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- \*—Clears all connections

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.  
**route-target signaling** keywords added in JUNOS Release 8.2.0.

## clear bridge

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**Description** Removes all dynamic (learned) MAC address entries from the forwarding table for the specified bridge group or VPLS instance . There is no **no** version.

**Syntax** clear bridge { *bridgeGroupName* | *vplsName* }

- *bridgeGroupName*—Name of a bridge group specified with the **bridge** command
- *vplsName*—Name of a VPLS instance created with the **bridge vpls transport-virtual-router** command

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*vplsName* variable added in JUNOS Release 7.1.0.

### Related Topics

- Clearing Dynamic MAC Addresses from the VPLS Forwarding Table

## clear bridge address

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**Description** Removes a specific dynamic (learned) MAC address entry from the forwarding table for the specified bridge group or VPLS instance. There is no **no** version.

**Syntax** `clear bridge { bridgeGroupName | vplsName } address macAddress`

- *bridgeGroupName*—Name of a bridge group specified with the **bridge** command
- *vplsName*—Name of a VPLS instance created with the **bridge vpls transport-virtual-router** command
- *macAddress*—Unique 48-bit (6-byte) number that is programmed into each LAN network interface card (NIC) at the time of manufacture; also known as a hardware address or physical address. The MAC address format is a dotted triple of four-digit hexadecimal numbers; for example, 0090.1a40.4c7c

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.  
*vplsName* variable added in JUNOS Release 7.1.0.

### Related Topics

- Clearing Dynamic MAC Addresses from the VPLS Forwarding Table

## clear bridge interface

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**Description** Removes from the forwarding table all dynamic (learned) MAC address entries for a specified network interface that belongs to a bridge group or to a VPLS instance . There is no **no** version.

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**NOTE:** Using the **clear bridge interface** command for a VPLS instance affects the specified network interface associated with the VPLS instance, but has no effect on the VPLS virtual core interface, which represents all of the MPLS tunnels from the router to the remote VPLS edge (VE) devices. To remove all MAC addresses from the forwarding table for the VPLS virtual core interface, use the **clear bridge interface vpls** command.

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**Syntax** `clear bridge interface interfaceType interfaceSpecifier`

- *interfaceType*—One of the following interface types listed in *Interface Types and Specifiers* in *About This Guide*:
  - atm
  - fastEthernet
  - gigabitEthernet
  - tenGigabitEthernet
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

### Related Topics

- Clearing Dynamic MAC Addresses from the VPLS Forwarding Table

## clear bridge interface vpls

**Description** Removes from the forwarding table for a VPLS instance all dynamic (learned) MAC address entries on the VPLS virtual core interface, which represents all of the MPLS tunnels from the router to the remote VPLS edge (VE) devices. There is no **no** version.



**NOTE:** Using the **clear bridge interface vpls** command affects the VPLS virtual core interface, but has no effect on the network interfaces associated with the VPLS instance. To remove all MAC addresses from the forwarding table for a VPLS network interface, use the **clear bridge interface** command.

**Syntax** `clear bridge interface vpls vplsName`

- *vplsName*—Name of a VPLS instance created with the **bridge vpls transport-virtual-router** command

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.

### Related Topics

- Clearing Dynamic MAC Addresses from the VPLS Forwarding Table

## clear egress-queue

**Description** Clears egress queue statistics for the all queues bound to the specified interface for queues stacked at and above the interface, or only for the specified traffic class. There is no **no** version.

**Syntax** `clear egress-queue interfaceType interfaceSpecifier [ explicit ] [ traffic-class trafficClassName ]`

- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*
- *explicit*—Clears queues only on the specified interface and not queues stacked above the interface
- *trafficClassName*—Name of a traffic class for which egress queue statistics are cleared

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear fabric-queue

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**Description** Clears statistics for all fabric queues or for the specified traffic-class, egress-slot, or both. There is no **no** version.

**Syntax** clear fabric-queue [ traffic-class *trafficClassName* ] [ egress-slot *egressSlot* ]

- *trafficClassName*—Name of a traffic class for which fabric-queue statistics will be cleared
- *egressSlot*—Number of an egress slot for which fabric-queue statistics will be cleared

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip bgp

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**Description** If the **soft** option is not used, brings down the underlying TCP connection and then brings it back up again, causing both peers to resend their complete BGP routing table. If the **soft out** option is used, the BGP speaker reapplies outbound policy and resends all routes to the specified peers. If the **soft in** option is used, the BGP speaker reapplies inbound policy to the routes received from the specified peers. This is possible only if soft reconfiguration inbound has been enabled for the peer or the peer supports the route-refresh capability. There is no **no** version.

**Syntax** `clear ip bgp [ ipAddress | ipv6Address | peer-group peerGroupName | * ] [ vrf vrfName ] [ ipv4 unicast | ipv4 multicast | vpn4 unicast | l2vpn | route-target signaling ] [ soft [ in [ prefix-filter ] | out ] ]`

- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- \*—Clears all connections
- *vrfName*—Name of a virtual routing and forwarding instance to clear
- *ipv4 unicast*—Clears the IPv4 unicast routing table; the default option
- *ipv4 multicast*—Clears the IPv4 multicast routing table
- *vpn4 unicast*—Clears the VPNv4 unicast routing and forwarding table
- *l2vpn*—Clears the L2VPN reachability information
- *route-target signaling*—Clears the route-target membership information
- *soft*—Specifies soft reconfiguration
  - *in*—Triggers inbound soft reconfiguration
  - *prefix-filter*—Pushes out prefix list and Cisco-proprietary prefix list outbound route filters and triggers inbound soft reconfiguration
  - *out*—Triggers outbound soft reconfiguration

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**l2vpn** keyword added in JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.  
**route-target signaling** keywords added in JUNOS Release 8.2.0.

### Related Topics

- Clearing BGP Attributes for L2VPNs
- Clearing BGP Attributes for VPLS



## clear ip bgp dampening

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- Description** Clears IP route flap dampening information and reinstates the suppressed routes. The **dampening** keyword and the **flap-statistics** keyword both have the same effect. There is no **no** version.
- Syntax** To clear IP-specific information for only the route-target address family:  
clear ip bgp route-target signaling { dampening | flap-statistics } [ *rtfPrefix* | *rtfAddress* ]
- To clear IP-specific information for any case other than for the route-target address family:  
clear ip bgp  
[ *vrf vrfName* ] [ ipv4 unicast | ipv4 multicast | vpnv4 unicast |  
l2vpn { all | vpls *vplsName* | vpws *vpwsName* } ]  
{ dampening | flap-statistics } [ *ipAddress* [ *addressMask* ] ]
- route-target signaling—Clears the route-target membership information
  - *rtfPrefix*—Prefix representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity/prefixLength* (for example, 320:320:524/36) where:
    - *asNumber*—AS number for origin of route target information, in the range 1–4294967295
    - *extendedCommunity*—Two-part number in the format *number1:number2* that identifies an extended community of VPNs, in the format *number1:number2*, where:
      - *number1*—Autonomous system (AS) number, in the range 1–4294967295, or an IP address
      - *number2*—Unique integer, in the range 1–4294967295; 32 bits if *number1* is a 16-bit AS number; 16 bits if *number1* is an IP address or a 32-bit AS number
    - *prefixLength*—Number that specifies the length of the route prefix, in the range 32–96
  - *rtfAddress*—*rtfPrefix* with a prefix length of 96; representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity* (for example, 320:320:524 or 320:50.2.3.4:524)
  - *vrfName*—Name of a virtual routing and forwarding instance to clear
  - ipv4 unicast—Clears the IPv4 unicast routing table; the default option
  - ipv4 multicast—Clears the IPv4 multicast routing table
  - vpnv4 unicast—Clears the VPNv4 unicast routing and forwarding table
  - l2vpn all—Clears the L2VPN reachability information for all VPLS instances in the L2VPN address family
  - l2vpn vpls *vplsName*—Clears the L2VPN reachability information for the VPLS instance with the name *vplsName*

- *l2vpn vpws vpwsName*—Clears the L2VPN reachability information for the L2VPN (VPWS) instance with the name *vpwsName*
- *ipAddress*—IP address of the BGP neighbor to clear
- *addressMask*—Address mask to be applied to the network IP address

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**l2vpn** keyword added in JUNOS Release 7.1.0.  
**vpws** keyword and *vpwsName* variable added in JUNOS Release 7.1.0.  
**all**, **vpws**, and **route-target signaling** keywords and *rtMemNlri* and *vpwsName* variables added in JUNOS Release 8.2.0.  
*rtMemNlri* variable replaced by two variables, *rtfAddress* and *rtfPrefix*, in JUNOS Release 9.1.0.

#### Related Topics

- Clearing BGP Attributes for L2VPNs
- Clearing BGP Attributes for VPLS

## clear ip bgp dynamic-peers

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**Description** Removes all dynamic peers in the specified scope. There is no **no** version.

**Syntax** clear ip bgp [ *ipAddress* | *ipv6Address* | peer-group *peerGroupName* | \* ] [ vrf *vrfName* ] dynamic-peers

- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- \*—Clears all connections
- *vrfName*—Name of a virtual routing and forwarding instance to clear

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.

## clear ip bgp redistribution

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**Description** Reapplies policy to routes that have been redistributed into BGP. There is no **no** version.

**Syntax** clear ip bgp [ ipv4 { unicast | multicast } ] redistribution

- ipv4 unicast—Reapplies policy to redistributed IPv4 unicast routes
- ipv4 multicast—Reapplies policy to redistributed IPv4 multicast routes

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip bgp wait-end-of-rib

---

**Description** Brings down the underlying TCP connection and then brings it back up again, causing both peers to resend their complete BGP routing table, but clears the specified peer from the set of peers for which BGP is waiting to receive an End-of-RIB marker after a peer restart. Hard clearing a peer has the same effect for that peer. There is no **no** version.

**Syntax** clear ip bgp [ *ipAddress* | *ipv6Address* | peer-group *peerGroupName* | \* ] [ vrf *vrfName* ] [ ipv4 unicast | ipv4 multicast | vpnv4 unicast | l2vpn | route-target signaling ] wait-end-of-rib

- *ipAddress*—IP address of identified BGP neighbor to clear
- *ipv6Address*—IPv6 address of identified BGP neighbor to clear
- *peerGroupName*—Name of a BGP peer group to clear
- \*—Clears all connections
- *vrfName*—Name of a virtual routing and forwarding instance to clear
- ipv4 unicast—Clears the IPv4 unicast routing table; the default option
- ipv4 multicast—Clears the IPv4 multicast routing table
- vpnv4 unicast—Clears the VPNv4 unicast routing and forwarding table
- l2vpn—Clears the L2VPN reachability information
- route-target signaling—Clears the route-target membership information

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**l2vpn** keyword added in JUNOS Release 7.1.0.  
*ipv6Address* variable added in JUNOS Release 8.0.0.  
**route-target signaling** keywords added in JUNOS Release 8.2.0.

### Related Topics

- Clearing BGP Attributes for L2VPNs
- Clearing BGP Attributes for VPLS

## clear ip demux

---

**Description** Clears all dynamically created demultiplexer table entries associated with route-map processing of the **set ip source-prefix** command. There is no **no** version.

**Syntax** clear ip demux

**Mode** Interface Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip dhcp-local binding

---

**Description** Clears the specified IP DHCP address binding. There is no **no** version.



**NOTE:** This command is deprecated and might be removed completely in a future release. The function provided by this command has been replaced by the **dhcp delete-binding** command.

**Syntax** clear ip dhcp-local binding *ipAddress*

- *ipAddress*—DHCP IP address binding to clear

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip dvmrp routes

---

**Description** Clears DVMRP routes from the routing table. There is no **no** version.

**Syntax** clear ip dvmrp routes [ *ipAddress* [ *addressMask* ] ]

- *ipAddress*—IP address for which longest match is cleared
- *addressMask*—Address mask to be applied to the IP address

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip flow stats

---

**Description** Clears all entries from all flow caches on the router. There is no **no** version.



**CAUTION:** Using this command may temporarily disrupt flow data collection.

---

**Syntax** clear ip flow stats

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip interface

---

**Description** Clears the counters on the specified IP interface. The default is all interface types and all interfaces. There is no **no** version.

**Syntax** clear ip interface [ *vrf vrfName* ] *interfaceType interfaceSpecifier*

- *vrfName*—Name of the VRF; string of 1–32 alphanumeric characters
- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip isis redistribution

---

**Description** Clears all the routes that have previously been redistributed into IS-IS and redistributes them using the current policy configuration. There is no **no** version.

**Syntax** clear ip isis redistribution

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip mobile binding

---

**Description** Clears the binding table in a virtual router or a specified binding determined by the mobile node home address or network access identifier (NAI). There is no **no** version.

**Syntax** clear ip mobile binding { nai { *user@realm* | *@realm* | *@* } | *ipAddress* | all }

- *user@realm*—Name of the user for the mobile node specification when the **nai** keyword is specified, in the format *user@realm*, where *realm* is the domain name
- *@realm*—Name of the user for the mobile node specification when the **nai** keyword is specified, in the format *@realm*, where *realm* is the domain name
- *@*—Name of the user for the mobile node specification when the **nai** keyword is specified, in the format *@*
- *ipAddress*—IP address of the home agent
- all—Clears all the bindings in the binding table

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 9.0.0.

## clear ip mroute

---

**Description** Clears all or the specified multicast forwarding entries. There is no **no** version.

**Syntax** clear ip mroute { \* | *grpAddress* [ *sourceAddress* ] }

- \*—Clears all IP multicast forwarding entries
- *grpAddress*—Address of the multicast group for which forwarding entries should be cleared
- *sourceAddress*—Address of the multicast source for which forwarding entries should be cleared

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip nat translation

---

**Description** Clears all or the specified NAT table entries. There is no **no** version.

**Syntax** clear ip nat translation \*

clear ip nat translation inside *insideGlobalIpAddress* *insideLocalIpAddress*

clear ip nat translation outside *outsideLocalIpAddress* *outsideGlobalIpAddress*

clear ip nat translation { icmp | tcp | udp }

inside *insideGlobalIpAddress* *insideGlobalPort* *insideLocalIpAddress* *insideLocalPort*

clear ip nat translation { gre | icmp | tcp | udp }

inside *insideGlobalIpAddress* \* *insideLocalIpAddress* \*

clear ip nat translation { icmp | tcp | udp }

inside *insideGlobalIpAddress* *insideGlobalPort* *insideLocalIpAddress* *insideLocalPort*

outside *outsideLocalIpAddress* *outsideLocalPort* *outsideGlobalIpAddress*

*outsideGlobalPort*

- \*—Clears all translations when used in the **clear ip nat translation** version of this command
- \*—Matches any global or local port to remove inside source extended GRE, ICMP, TCP, or UDP translations for the specified global IP address and local IP address when used in the **clear ip nat translation { gre | icmp | tcp | udp } inside *insideGlobalIpAddress* \* *insideLocalIpAddress* \*** version of this command
- inside—Specifies an inside address
- *insideGlobalIpAddress*—Inside global IP address
- *insideLocalIpAddress*—Inside local IP address
- outside—Specifies an outside address
- *outsideLocalIpAddress*—Outside local IP address
- *outsideGlobalIpAddress*—Outside global IP address
- tcp—Specifies a TCP port translation
- udp—Specifies a UDP port translation
- icmp—Specifies an ICMP port translation
- gre—Specifies a GRE translation
- *insideGlobalPort*—Inside global port number
- *insideLocalPort*—Inside local port number
- *outsideGlobalPort*—Outside global port number
- *outsideLocalPort*—Outside local port number

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**gre** keyword added in JUNOS Release 7.3.0.

## clear ip ospf database

---

**Description** Deletes all entries from the OSPF link-state database and resets all adjacencies. There is no **no** version.

**Syntax** clear ip ospf database

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.

## clear ip ospf neighbor

---

**Description** Clears or resets adjacency with a specified neighbor session. There is no **no** version.



**NOTE:** When OSPF is configured and running over an NBMA network, do not issue the **clear ip ospf neighbor** command simultaneously on both ends of the OSPF link. Doing so brings the OSPF link down completely. In this event, you must do one of the following on both sides of the link to bring the link back up:

- Reconfigure the OSPF neighbors on the NBMA interface with the **neighbor** command.
- Issue the **clear ip ospf database** command to clear and reset the OSPF adjacencies.
- Issue the **shutdown** command followed by the **no shutdown** command on the interface.

**Syntax** clear ip ospf neighbor [ *neighborAddress* ]

- *neighborAddress*—IP address of identified neighbor to clear or reset

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.

## clear ip ospf redistribution

---

**Description** Clears and readvertises all of the routes that have been previously redistributed into OSPF. Exercise caution when using this command as it purges all external LSAs and reoriginates. There is no **no** version.

**Syntax** clear ip ospf redistribution

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.



## clear ip pim auto-rp

---

**Description** Clears the group-to-RP router mappings the router learned via autoRP. There is no **no** version.

**Syntax** clear ip pim auto-rp [ *ipAddress* ]

- *ipAddress*—IP address of the router designated as an RP router

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip pim interface count

---

**Description** Clears the counters for multicast packet statistics on all interfaces or the specified interface. There is no **no** version.

**Syntax** clear ip pim interface [ *interfaceType interfaceSpecifier* ] count

- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip pim remote-neighbor count

---

**Description** Clears the counters for remote neighbor statistics on all interfaces or the specified interface. There is no **no** version.



**NOTE:** This command is typically used when you configure PIM remote neighbors to run multicast services over BGP/MPLS VPNs. That functionality is no longer supported.

**Syntax** clear ip pim remote-neighbor [ *ipAddress* ] count

- *ipAddress*—IP address of the interface

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip prefix-list

---

**Description** Clears all hit counts in the prefix lists, the specified prefix list, or the specified entry from the specified prefix list. There is no **no** version.

**Syntax** clear ip prefix-list [ *listName* [ *network/length* ] ]

- *listName*—Name of the prefix list; string of up to 32 characters
- *network*—Base address of the network route to be filtered; for example, 192.168.32.0 or 10.10.0.0
- *length*—Length of the network prefix; number of bits masking base address to produce address to be matched

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip prefix-tree

---

**Description** Clears all prefix trees, the specified prefix tree, or the specified entry from the specified prefix tree. There is no **no** version.

**Syntax** clear ip prefix-tree [ *treeName* [ *network/length* ] ]

- *treeName*—Name of the prefix list; string of up to 32 characters
- *network*—Base address of the network route to be filtered; for example, 192.168.32.0 or 10.10.0.0
- *length*—Length of the network prefix; number of bits masking base address to produce address to be matched

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip rip dynamic-interfaces

---

**Description** Clears all existing dynamic, unnumbered interfaces that were created since issuing the **ip rip copy-to-dynamic** command. There is no **no** version.

**Syntax** clear ip rip dynamic-interfaces

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip rip redistribution

---

**Description** Clears all the routes that have previously been redistributed into RIP. There is no **no** version.

**Syntax** clear ip rip redistribution

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip routes

---

**Description** Clears a specified route or all dynamic routes from the routing table of a specified VRF or all VRFs. There is no **no** version.

**Syntax** clear ip routes [ vrf *vrfName* ] { \* | *ipAddress ipMask* }

- *vrfName*—Name of the VRF context from which routes are to be cleared
- \*—Clears all dynamic routes
- *ipAddress*—IP address prefix for routes that are cleared; in 32-bit dotted-decimal format
- *ipMask*—Mask of the IP address prefix for routes that are cleared; in 32-bit dotted-decimal format

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ip routes download

---

**Description** Synchronizes downloaded access routes and the routes installed in the routing table. This command has no effect if a download operation is in progress. There is no **no** version.

**Syntax** For a specific VRF  
`clear ip routes download [ vrf vrfName ] { ipAddress ipMask | * }`  
 For all virtual routers  
`clear ip routes download { all | reload }`

- *vrfName*—Name of the VRF; string of 1–32 alphanumeric characters; the current virtual router is used by default
- *ipAddress*—IP address prefix to clear
- *ipMask*—Network mask of the IP address prefix to clear
- \*—Clears all dynamic routes that are installed in the routing table of the current virtual router or specified VRF
- all—Clears all downloaded routes that are installed in the routing tables of all virtual routers and VRFs.
- reload—Performs a route download operation, then clears all downloaded routes from the routing tables in all virtual routers and VRFs.

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 8.1.0.

## clear ip tunnel-routes

---

**Description** Clears and then refreshes a specified route or all dynamic routes from the tunnel routing table of the virtual router or a specified VRF. There is no **no** version.

**Syntax** `clear ip tunnel-routes [ vrf vrfName ] { * | ipAddress ipMask }`

- *vrfName*—Name of the VRF context from which routes are to be cleared
- \*—Clears all dynamic routes
- *ipAddress*—IP address prefix for routes that are cleared; in 32-bit dotted-decimal format
- *ipMask*—Mask of the IP address prefix for routes that are cleared; in 32-bit dotted-decimal or /N format

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.

## clear ipv6 access-list

---

**Description** Clears counters for entries in IP access lists. There is no **no** version.

**Syntax** clear ipv6 access-list [ *accessListName* ]

- *accessListName*—Name of the access list; a string of up to 32 characters

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 bfd session

---

**Description** Restarts all IPv6 BFD sessions or a specified BFD session. There is no **no** version.

**Syntax** clear ipv6 bfd session [ address *ipv6Address* ]

- *ipAddress*—IP address of the destination to which the session has been established

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.

## clear ipv6 interface

---

**Description** Clears the counters on the specified IPv6 interface. The default is all interface types and all interfaces. There is no **no** version.

**Syntax** clear ipv6 interface *interfaceType interfaceSpecifier*

- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 mroute

---

**Description** Clears all or the specified IPv6 multicast forwarding entries. There is no **no** version.

**Syntax** clear ipv6 mroute { \* | *grpAddress* [ *sourceAddress* ] }

- \*—Clears all IPv6 multicast forwarding entries
- *grpAddress*—Address of the multicast group for which forwarding entries should be cleared
- *sourceAddress*—Address of the multicast source for which forwarding entries should be cleared

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 neighbors

---

**Description** Clears all IPv6 dynamic neighbors. The **include-statics** keyword clears both dynamic neighbors and static neighbors. The **statics-only** keyword clears only IPv6 static neighbors. There is no **no** version.

**Syntax** clear ipv6 neighbors [ include-statics | statics-only ]

- include-statics—Clears both dynamic and static neighbors
- statics-only—Clears only static neighbors

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 ospf counters

---

**Description** Clears all OSPF IPv6 statistical counters for the virtual router. There is no **no** version.

**Syntax** clear ipv6 ospf [ *processId* ] counters

- *processId*—Number in the range 1–65535 that identifies the OSPF process

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 ospf process

---

**Description** Clears the OSPF IPv6 process on the virtual router. There is no **no** version.

**Syntax** clear ipv6 ospf [ *processId* ] process

- *processId*—Number in the range 1–65535 that identifies the OSPF process

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 ospf redistribution

---

**Description** Clears and readvertise all of the routes that have been previously redistributed into OSPF. Exercise caution when using this command as it purges all external LSAs and reoriginates. There is no **no** version.

**Syntax** clear ipv6 ospf redistribution

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 pim interface

---

**Description** Clears the counters for multicast packet statistics on all IPv6 interfaces or the specified IPv6 interface. There is no **no** version.

**Syntax** clear ipv6 pim interface [ *interfaceType interfaceSpecifier* ] count

- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 pim remote-neighbor

---

**Description** Clears the counters for remote neighbor statistics on all IPv6 interfaces or the specified IPv6 interface. There is no **no** version.

**Syntax** clear ipv6 pim remote-neighbor [ *ipv6Address* ] count

- *ipv6Address*—IPv6 address of the interface

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 prefix-list

---

**Description** Clears all hit counts in all IPv6 prefix lists, the specified prefix list, or the specified entry from the specified prefix list. There is no **no** version.

**Syntax** clear ipv6 prefix-list [ *listName* [ *network/length* ] ]

- *listName*—Name of the IPv6 prefix list; string of up to 32 characters
- *network*—Base address of the network route to be filtered; for example, ::ffff:a:b:c:d
- *length*—Length of the network prefix; number of bits masking base address to produce address to be matched

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 routes

---

**Description** Clears IPv6 routes. To clear the routes for a specific IPv6 network, specify the IPv6 prefix. To clear all dynamic IPv6 routes, use the \* (asterisk) option. There is no **no** version.

**Syntax** clear ipv6 routes [ *ipv6Prefix* | \* ]

- *ipv6Prefix*—IPv6 network for which to clear route information
- \*—Clears all dynamic IPv6 routes

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear ipv6 tunnel-routes

---

**Description** Clears and then refreshes IPv6 routes from the tunnel routing table. To clear the routes for a specific IPv6 network, specify the IPv6 prefix. To clear all dynamic IPv6 routes, use the \* (asterisk) option. There is no **no** version.

**Syntax** clear ipv6 tunnel-routes [ *ipv6Prefix* | \* ]

- *ipv6Prefix*—IPv6 network for which to clear route information
- \*—Clears all dynamic IPv6 routes

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.1.0.



## clear isis adjacency

---

**Description** Clears all entries from the adjacency database, or clears only adjacencies with a specified neighbor. There is no **no** version.

**Syntax** clear isis adjacency [ *systemId* | *hostname* ]

- *systemId*—System ID of an IS-IS neighbor
- *hostname*—Hostname of an IS-IS neighbor

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear isis database

---

**Description** Clears all entries from the IS-IS link-state database, or clears only entries associated with a specified neighbor. There is no **no** version.

**Syntax** clear isis database [ *systemId* | *hostname* ]

- *systemId*—System ID of an IS-IS neighbor
- *hostname*—Hostname of an IS-IS neighbor

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear isis ipv6 redistribution

---

**Description** Clears all the IPv6 routes that have previously been redistributed into IS-IS and redistributes them using the current policy configuration. There is no **no** version.

**Syntax** clear isis ipv6 redistribution

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 8.2.0.

## clear l2c discovery-table

---

**Description** Clears all entries or a specified entry from the topology discovery table. There is no **no** version.

**Syntax** clear l2c discovery-table { neighbor *neighborName* | end-user-id *userId* | neighbor *neighborName* end-user-id *userId* }

- *neighborName*—Name of the neighbor you want to reset
- *userId*—User ID you want to reset

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.2.0.

## clear l2c neighbor

---

**Description** Resets the specified GSMP neighbor session. There is no **no** version.

**Syntax** clear l2c neighbor *neighborName*

- *neighborName*—Name of the neighbor you want to reset

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear line

---

**Description** Removes all services on any line on the system and closes any files opened as a result of services on that line. There is no **no** version.

**Syntax** clear line { *absoluteLine* | *cliType* *relativeLine* }

- *absoluteLine*—Absolute number of the line to which the user is connected; see the line number field in the **show users** command output
- *cliType*—One of the following types of lines:
  - console
  - vty
- *relativeLine*—Relative number for a line; see the line name field in the **show users** command output

**Mode** User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear mirror log

---

**Description** Clears all log entries for packet mirroring operations. By default, you must have CLI user access level 13 or above to use this command; an administrator can modify the user access level requirement. There is no **no** version.

**Syntax** clear mirror log

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Monitoring Packet Mirroring Overview
- Logging Packet Mirroring Information

## clear mpls dynamic-interfaces on-major-interfaces

---

**Description** Removes and re-creates both dynamic IPv4 interfaces and dynamic IPv6 interfaces that are on top of all MPLS major interfaces or on top of the specified MPLS major interface. There is no **no** version.

**Syntax** clear mpls dynamic-interfaces [ ip | ipv6 ] on-major-interfaces  
[ *interfaceType interfaceSpecifier* ]

- ip—Specifies that only IPv4 dynamic interfaces are removed and re-created
- ipv6—Specifies that only IPv6 dynamic interfaces are removed and re-created
- *interfaceType*—Interface type; see *Interface Types and Specifiers* in *About This Guide*
- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Privileged Exec

**Release Information** Command introduced in JUNOS Release 7.2.0.

## clear mpls ldp

---

**Description** Removes and reestablishes existing LDP LSPs, thereby forcing the reapplication of policies on the reestablished topology-driven LDP LSPs. You can clear all LDP LSPs or limit the clearance to only LSPs to a specified prefix or neighbor. There is no **no** version.

**Syntax** `clear mpls ldp [ prefix destAddr [ maskLen | mask ] | neighbor [ neighborAddress ] ]`

- *destAddr*—IP address of the prefix to be cleared
- *maskLen*—Length of the prefix to be cleared; number in the range 0–32
- *mask*—Mask for the prefix to be cleared
- *neighborAddress*—IP address of a neighbor 32-bit dotted-decimal format of the entry to be cleared

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear redundancy history

---

**Description** Clears the high availability switchover history for the router. There is no **no** version.

**Syntax** `clear redundancy history`

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear rsvp authentication

---

**Description** Clears the security association and resets the sequence number on the receiving peer for the specified sending peer. There is no **no** version.

**Syntax** `clear { ip | mpls } rsvp authentication [ ipAddress ]`

- *ip*—Specifies keyword for compatibility with non-E-series implementations
- *mpls*—Indicates JUNOS MPLS implementation
- *ipAddress*—IP address of sending peer

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clear suspicious-control-flow-detection

---

**Description** Clears one or more suspicious flows. If you do not specify a slot, interface, or IP address, clears all suspicious flows. If you specify a slot, clears all specified suspicious flows on that slot. If you specify an interface and protocol, clears flows that are identified down to the Ethernet mac address level. There is no **no** version.

**Syntax** clear suspicious-control-flow-detection  
[ interface *interfaceSpecifier* protocol *protocolValue* address *ethernetAddress* slot *slotNumber* ]

- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*
- *protocolValue*—Name of the protocol to be cleared
- *ethernetAddress*—Ethernet address to be cleared
- *slotNumber*—Number of the slot to be cleared

**Mode** Privileged Exec, User Exec

**Release Information** Command introduced in JUNOS Release 7.3.0.

## client-name

---

**Description** From Domain Map Tunnel Configuration or Tunnel Group Tunnel Configuration mode, sets a hostname for a tunnel that the LAC uses when communicating with the LNS about the tunnel. The **no** version removes the hostname from the tunnel.



**NOTE:** In Domain Map Tunnel Configuration mode, this command is replacing the **hostname** command. The **hostname** command may be removed completely from Domain Map Tunnel Configuration mode in a future release.

**Syntax** client-name *clientname*  
no client-name

- *clientname*—String of up to 64 characters (no spaces)

**Mode** Domain Map Tunnel Configuration, Tunnel Group Tunnel Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clns configuration-time

---

<b>Description</b>	Specifies the rate at which ES hellos and IS hellos are sent. The <b>no</b> version restores the default value, 10 seconds.
<b>Syntax</b>	clns configuration-time <i>configTime</i> no clns configuration-time <ul style="list-style-type: none"> <li>■ <i>configTime</i>—Number in the range 1–65535; rate in seconds at which ES and IS hello packets are sent; default value is 10 seconds</li> </ul>
<b>Mode</b>	Global Configuration
<b>Release Information</b>	Command introduced before JUNOS Release 7.1.0.

## clns holding-time

---

<b>Description</b>	Allows the sender of an ES hello or IS hello to specify the length of time you consider the information in the hello packets to be valid. The <b>no</b> version restores the default value, 30 seconds.
<b>Syntax</b>	clns holding-time <i>holdTime</i> no clns holding-time <ul style="list-style-type: none"> <li>■ <i>holdTime</i>—Number in the range 1–65535; length of time in seconds during which the information in the hello packets is considered valid</li> </ul>
<b>Mode</b>	Global Configuration
<b>Release Information</b>	Command introduced before JUNOS Release 7.1.0.

## clns host

---

<b>Description</b>	Defines a name-to-NSAP mapping that can then be used with commands requiring NSAPs. Enables dynamic resolution of hostnames to system IDs (within the NSAP address). The hostname mapping is sent in the LSPs within the dynamic hostname TLV tuple. Display the TLV by issuing the <b>show isis database detail</b> command. Use the <b>show hosts</b> command to display the mapping. The <b>no</b> version restores the default of no mapping defined.
<b>Syntax</b>	clns host <i>name nsap</i> no clns host <i>name</i> <ul style="list-style-type: none"> <li>■ <i>name</i>—Name for the NSAP; first character can be either a letter or a number. If a number is used, the operations you can perform are limited.</li> <li>■ <i>nsap</i>—NSAP to which that name maps</li> </ul>
<b>Mode</b>	Global Configuration
<b>Release Information</b>	Command introduced before JUNOS Release 7.1.0.

## clock set

---

**Description** Allows you to manually set the system clock. There is no **no** version.

**Syntax** `clock set time { month day | day month } year`

- *time*—Current time (in 24-hour format – *HH:MM:SS*)
- *month*—Name of the month (January, February, ...)
- *day*—Day of the month (1–31)
- *year*—Year (2000, 2001, ...)

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clock source

---

**Description** Determines how an interfaces obtains clocking signals. The **no** version restores the default value, **line**.

**Syntax** `clock source { line | internal { module | chassis } }`  
`no clock source`

- *line*—Interface clocks data from a clock recovered from the line's receive data stream; the default.
- *internal*—Internal clock source transmits data from its internal clock. You must specify one of the following for internal clocking:
  - *module*—Internal clock is from the line module itself
  - *chassis*—Internal clock is from the configured system clock

**Mode** Controller Configuration, Interface Configuration (POS only)

**Release Information** Command introduced before JUNOS Release 7.1.0.

## clock summer-time date

---

**Description** Sets the router to automatically switch to summer time (Daylight Saving Time—DST). It should start on the first specific date listed in the command and end on the second specific date in the command. The **no** version configures the software so that it does not automatically switch to summer time.

**Syntax** `clock summer-time name date { startDay startMonth | startMonth startDay } startYear startTime { stopDay stopMonth | stopMonth stopDay } stopYear stopTime [ dstOffset ]`  
`no clock summer-time`

- *name*—Name of the time zone (for example, PDT) to be displayed when daylight saving (summer) time is in effect
- *date*—Indicates that summer time should start on the first specific date listed in the command and end on the second specific date in the command
- *startDay*—DST start day (1–31)
- *startMonth*—DST start month (January, February, ...)
- *startYear*—DST start year (2000, 2001, ...)
- *startTime*—DST start time (24-hour format) in hours and minutes (hh:mm)
- *stopDay*—DST stop day
- *stopMonth*—DST stop month
- *stopYear*—DST stop year
- *stopTime*—DST stop time (24-hour format)
- *dstOffset*—Number of minutes to add during summer time in the range 1–1440; default = 60

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.



## clock summer-time recurring

---

- Description** Sets the router to automatically switch to summer time (Daylight Saving Time) on the specified dates every year. The **no** version configures the software not to automatically switch to summer time.
- Syntax** clock summer-time *name* recurring [ { *startWeekNumber* | *startWeekEnum* } *startDay* *startMonth* *startTime* { *stopWeekNumber* | *stopWeekEnum* } *stopDay* *stopMonth* *stopTime* [ *dstOffset* ] ]  
no clock summer-time
- *name*—Name of the time zone (for example, EDT for Eastern Daylight Savings Time) to be displayed when daylight saving (summer) time is in effect
  - *recurring*—Indicates that summer time should start and end on the specified days every year
  - *startWeekNumber*—DST start week of the month (1–5)
  - *startWeekEnum*—First week in month (first); or last week in month (last)
  - *startDay*—DST start day of the week (Sunday, Monday, ...)
  - *startMonth*—DST start month (January, February, ...)
  - *startTime*—DST start time (24-hour format) in hours and minutes (hh:mm)
  - *stopWeekNumber*—DST stop week of the month (1–5)
  - *stopWeekEnum*—First week in month (first); or last week in month (last)
  - *stopDay*—DST stop day of the week
  - *stopMonth*—DST stop month
  - *stopTime*—DST stop time in hours and minutes (hh:mm)
  - *dstOffset*—Number of minutes to add during summer time in the range 1–1440; default = 60
- Mode** Global Configuration
- Release Information** Command introduced before JUNOS Release 7.1.0.

## clock timezone

---

- Description** Sets the time zone for display. The **no** version sets the time zone to UTC.
- Syntax** clock timezone *name* *hours* [ *minutes* ]  
no clock timezone
- *name*—Name of the time zone to be displayed when Standard time is in effect, such as EST or PST.
  - *hours*—Hours offset from UTC (-23, -22 ... 23)
  - *minutes*—Minutes offset from UTC (0–59)
- Mode** Global Configuration
- Release Information** Command introduced before JUNOS Release 7.1.0.

## color

---

**Description** Defines a policy rule that assigns a color to packets defined in the current classifier control list. The **no** version removes the rule from the policy list; the **suspend** version temporarily suspends the policy rule; the **no suspend** version resumes application of a suspended rule.



**NOTE:** This command replaces the Policy List Configuration mode version of the **color** command, which may be removed completely in a future release.

**Syntax** [ no ] [ suspend ] color { green | yellow | red }

- green—Assigns green color to packets; highest precedence
- yellow—Assigns yellow color to packets; intermediate precedence
- red—Assigns red color to packets; lowest precedence

**Mode** Classifier Group Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

### Related Topics

- Hierarchical Rate Limits Overview
- Policy Rule Precedence

## color-aware

---

**Description** Configures rate-limit profile to operate in color-aware mode. (Supported only on hierarchical rate limits.) Color-aware rate limits can change the algorithm used depending on the color of the incoming packet, which might have been set in the previous rate limit, in a policy action, or in an earlier policy. The **no** version restores the default value, which is not color-aware.

**Syntax** [ no ] color-aware

**Mode** Rate Limit Profile Configuration

**Release Information** Command introduced in JUNOS Release 7.2.0.

### Related Topics

- Creating a Two-Rate Rate-Limit Profile

## color-mark-profile

---

**Description** Translates the packet color (independent of its type) to a type-dependent mark (for ToS or EXP), which is applied to a packet after it has exited a rate-limit hierarchy. If translation is not configured for a color, then packets of that color are not changed. The **no** version deletes the color-mark profile.

**Syntax** [ no ] [ ip | ipv6 | mpls ] color-mark-profile *profileName*

- *profileName*—Name of the rate-limit profile to be used in a policy (up to 40 alphanumeric characters)

**Mode** Color Mark Profile Configuration, Global Configuration

**Release Information** Command introduced in JUNOS Release 7.2.0.

### Related Topics

- Hierarchical Rate Limits Overview
- Policy Rule Precedence

## committed-action

---

**Description** Sets the action for packets conforming to the committed rate and committed burst size and conforming to the exceed rate and exceed burst size for a rate-limit profile. The **no** version restores the value to the default value, drop.

**Syntax** For IP and IPv6 rate-limit profiles:  
`[ no ] committed-action { drop | transmit | mark markVal }`

For L2TP rate-limit profiles:  
`[ no ] committed-action { drop | transmit }`

For MPLS rate-limit profiles:  
`[ no ] committed-action { drop | transmit | mark-exp expValue }`

For hierarchical rate-limit profiles:  
`[ no ] committed-action { drop | transmit [ conditional | unconditional | final ] }`

- drop—Drops the packet
- transmit—Transmits the packet; for hierarchical rate limits:
  - conditional—Packets must pass the next rate limit
  - unconditional—Packets take resources, but are not affected by the rest of the hierarchy
  - final—Packets exit the hierarchy at rate limit
- *markVal*—Value in the range 0–255
- *expValue*—EXP bit value in the range 0–7

**Mode** Rate Limit Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**conditional**, **unconditional**, and **final** keywords added in JUNOS Release 7.2.0.

### Related Topics

- Creating a Two-Rate Rate-Limit Profile

## committed-burst

---

**Description** Sets the committed burst for a rate limit profile. The **no** version restores the default value, 100 ms; if 100ms is less than 8K, then 8K (8192).

**Syntax** committed-burst { *size* | millisecond *milliseconds* }  
no committed-burst

- *size*—Size in bytes in the range 1–4294967295
- *milliseconds*—Milliseconds in the range 1–10000

**Mode** Rate Limit Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*milliseconds* variable added in JUNOS Release 8.1.0.

**Related Topics**

- Creating a Two-Rate Rate-Limit Profile

## committed-drop-threshold

---

**Description** Configures the threshold above which committed-drop-events are logged. The **no** version removes the threshold.

**Syntax** committed-drop-threshold *committedDropThreshold*  
no committed-drop-threshold

- *committedDropThreshold*—Bits per second in the range 0–1073741824

**Mode** Statistics Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Configuring Event Statistics

## committed-length

---

**Description** Sets minimum and maximum constraints for the queue's committed lengths. The **no** version removes constraints on the queue's committed length.

**Syntax** committed-length *minimumCommittedLength* [ *maximumCommittedLength* ]  
no committed-length

- *minimumCommittedLength*—Range 0–1073741824
- *maximumCommittedLength*—Range 0–1073741824

**Mode** Queue Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Configuring Queue Profiles to Manage Buffers and Thresholds

## committed-rate

---

**Description** Sets the committed rate for a rate-limit profile as a specified value or as a percentage of a reference rate defined in the specified policy parameter. The **no** version restores the default value, 0.

**Syntax** committed-rate { *rate* | *parameterName* percentage *percentValue* }  
no committed-rate

- *rate*—Rate in bits per second in the range 0–4294967295
- *parameterName*—Name of policy parameter up to 40 characters
- *percentValue*—Percentage in the range 0–100

**Mode** Rate Limit Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*parameterName* and *percentValue* variables added in JUNOS Release 8.1.0.

**Related Topics**

- Creating a Two-Rate Rate-Limit Profile
- Setting the Committed Rate for a Rate-Limit Profile

## committed-threshold

---

**Description** Specifies the committed queue thresholds and maximum drop probability. The **no** version removes committed threshold.

**Syntax** committed-threshold { percent *MinThresholdPercent* *MaxThresholdPercent* | *MinThresholdBytes* *MaxThresholdBytes* } *MaxDropProbability*  
no committed-threshold

- percent—Specifies committed queue thresholds as percentages
- *MinThresholdPercent*—Minimum queue threshold as a percentage of queue length
- *MaxThresholdPercent*—Maximum queue threshold as a percentage of queue length
- *MinThresholdBytes*—Minimum queue threshold in bytes
- *MaxThresholdBytes*—Maximum queue threshold in bytes
- *MaxDropProbability*—Maximum drop probability

**Mode** Drop Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

### Related Topics

- Configuring RED
- Configuring WRED

## common-name

---

**Description** Specifies a common name used to generate certificate requests. The **no** version removes the common name.

**Syntax** [ no ] common-name *commonName*

- *commonName*—Name of up to 60 characters

**Mode** IPSec Identity Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## configure

---

**Description** Enters Global Configuration mode. There is no **no** version.



**NOTE:** This command is not allowed for a short time after a warm restart (warm switchover) occurs. This behavior allows some applications time to complete their warm-restart initialization. However, if the warm-restart does not complete in 5 minutes, the warm-start is cancelled and configuration access is restored.

**Syntax** `configure [ terminal | file [ fileName ] [ verbose | show-progress [ dotPeriod ] ] ]`

- `terminal`—Enables manual configuration from a terminal
- `file`—Configures the router from a script file
- `fileName`—Script file to execute
- `verbose`—Echoes each command as the script is executed
- `show-progress`—Displays a '.' during script execution
- `dotPeriod`—Number of commands executed before a '.' is displayed; default value is 100

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## confirmations explicit

---

**Description** Requires the user to enter **y**, **ye**, or **yes** to confirm a prompt, and to enter **n** or **no** to deny a prompt. The **no** version restores the default state, which permits pressing <Enter> or <y> to confirm a prompt and entering any other characters to deny a prompt.

**Syntax** `[ no ] confirmations explicit`

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.



## conformed-action

---

**Description** Sets the action for packets not conforming to the committed rate and committed burst size, but conforming to the peak rate and peak burst size for a rate-limit profile. The **no** version restores the value to the default value, drop.

**Syntax** For IP and IPv6 rate-limit profiles:  
[ no ] conformed-action { drop | transmit | mark *markVal* }  
For L2TP rate-limit profiles:  
[ no ] conformed-action { drop | transmit }  
For MPLS rate-limit profiles:  
[ no ] conformed-action { drop | transmit | mark-exp *expValue* }  
For hierarchical rate-limit profiles:  
[ no ] conformed-action { drop | transmit [ conditional | unconditional | final ] }  
■ drop—Drops the packet  
■ transmit—Transmits the packet; for hierarchical rate limits:  
■ conditional—Packets must pass the next rate limit  
■ unconditional—Packets take resources, but are not affected by the rest of the hierarchy  
■ final—Packets exit the hierarchy at rate limit  
■ *markVal*—Value in the range 0–255  
■ *expValue*—EXP bit value in the range 0–7

**Mode** Rate Limit Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

### Related Topics

- Creating a Two-Rate Rate-Limit Profile

## conformed-drop-threshold

---

**Description** Configures the threshold above which conformed-drop-events are logged. The **no** version removes the threshold.

**Syntax** conformed-drop-threshold *conformedDropThreshold*  
no conformed-drop-threshold  
■ *conformedDropThreshold*—Bits per second in the range 0–1073741824

**Mode** Statistics Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**conditional**, **unconditional**, and **final** keywords added in JUNOS Release 7.2.0.

### Related Topics

- Configuring Event Statistics

## conformed-fraction

---

**Description** Sets the percentage of the total queue that can be occupied before dropping conformed packets. The **no** version returns the conformed fraction to its default setting.

**Syntax** conformed-fraction *conformedFraction*  
no conformed-fraction

- *conformedFraction*—Percentage in the range 0–100; default value is 50

**Mode** Queue Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Configuring Queue Profiles to Manage Buffers and Thresholds

## conformed-length

---

**Description** Sets minimum and maximum constraints for the queue's conformed lengths. The **no** version removes constraints on the queue's conformed length.

**Syntax** conformed-length *minimumConformedLength* [ *maximumConformedLength* ]  
no conformed-length

- *minimumConformedLength*—Number in the range 0–1073741824
- *maximumConformedLength*—Number in the range 0–1073741824

**Mode** Queue Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Configuring Queue Profiles to Manage Buffers and Thresholds

## conformed-threshold

---

**Description** Specifies the conformed queue thresholds and maximum drop probability. The **no** version removes conformed threshold.

**Syntax** `conformed-threshold { percent MinThresholdPercent MaxThresholdPercent | MinThresholdBytes MaxThresholdBytes } MaxDropProbability`  
`no conformed-threshold`

- *percent*—Specifies conformed queue thresholds as percentages
- *MinThresholdPercent*—Minimum queue threshold as a percentage of queue length
- *MaxThresholdPercent*—Maximum queue threshold as a percentage of queue length
- *MinThresholdBytes*—Minimum queue threshold in bytes
- *MaxThresholdBytes*—Maximum queue threshold in bytes
- *MaxDropProbability*—Maximum drop probability

**Mode** Drop Profile Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

**Related Topics**

- Configuring RED
- Configuring WRED

## control-plane

---

**Description** Enters Control Plane Configuration mode. There is no **no** version.

**Syntax** `control-plane`

**Mode** Global Configuration

**Release Information** Command introduced in JUNOS Release 8.0.0.

**Related Topics**

- Rate-Limiting Traffic Flows

## controlled-interface-type

---

**Description** Assigns controlled-interface types to a QoS parameter definition. Controlled-interface types specify the types of logical interfaces whose queues and nodes can be controlled by instances of the parameter definition. You can specify up to four controlled-interface types for each parameter definition. The **no** version removes the controlled-interface type from the parameter definition.

**Syntax** `controlled-interface-type controlledInterfaceType`  
`no controlled-interface-type { controlledInterfaceType | all }`

- *controlledInterfaceType*—One of the following controlled-interface types: atm, atm-vc, atm-vp, bridge, ethernet, fr-vc, ip, ip-tunnel, ipv6, l2tp-session, l2tp-tunnel, lsp, serial, svlan, server-port, vlan
- all—Removes all controlled-interface types

**Mode** QoS Parameter Definition

**Release Information** Command introduced in JUNOS Release 7.1.0.

**Related Topics**

- [Configuring a Basic Parameter Definition for QoS Administrators](#)

## controller e3

---

**Description** Accesses Controller Configuration mode so that you can configure an E3 controller. There is no **no** version.

**Syntax** `controller e3 interfaceSpecifier`

- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## controller sonet

---

**Description** Selects an interface on which you want to configure SONET or SDH. There is no **no** version.

**Syntax** `controller sonet interfaceSpecifier`

- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## controller t3

---

**Description** Accesses Controller Configuration mode so that you can configure a T3 controller. There is no **no** version.

**Syntax** controller t3 *interfaceSpecifier*

- *interfaceSpecifier*—Particular interface; format varies according to interface type; see *Interface Types and Specifiers* in *About This Guide*

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## convergence-factor

---

**Description** Specifies the convergence factor for all simple shared shapers on the router. The convergence factor determines how quickly the dynamic shaping rate converges with the calculated dynamic shaping rate, and is expressed as a percentage of the available bandwidth. The **no** version removes the specified convergence factor from all simple shared shapers on the router.

**Syntax** convergence-factor *convergenceFactor*  
no convergence-factor

- *convergenceFactor*—Percentage value in the range 0–99; default value is 50

**Mode** QoS Shared Shaper Control Configuration

**Release Information** Command introduced in JUNOS Release 8.0.0.

### Related Topics

- Configuring Simple Shared Shaper Algorithm Variables

## copy

**Description** Copies a local or network file. There is no **no** version.



**NOTE:** You cannot change the extension of a file, for example, from .mac to .scr. You can copy software release (.rel) files only *to* the router (download); you cannot copy them *from* the router (upload). See *Copying and Redirecting Files* in *JUNOS System Basics Configuration Guide, Chapter 5, Managing the System*, for detailed information on file type usage with the **copy** command.

**Syntax** `copy [ sourcePath ]sourceFilename [ destinationPath ]destinationFilename [ force ]`

- *sourcePath*—Path to the source in the format:  
`hostName: | deviceName: | /incoming/subdirectory/ | /outgoing/subdirectory/`
  - *hostName:*—Name of the network host
  - *deviceName:*—Name of the device specifying a flash card slot
    - *disk0*—Specifies flash card slot 0 on the primary SRP module; if no device is specified for the primary SRP module, then *disk0* is used
    - *disk1*—Specifies flash card slot 1 on the primary SRP module; source and destination file types must be .dmp; supported only on the E120 and E320 routers
    - *standby*—Specifies flash card slot 0 on the standby SRP module for backward compatibility
    - *standby-disk0*—Specifies flash card slot 0 on the standby SRP module
    - *standby-disk1*—Specifies flash card slot 1 on the standby SRP module; source and destination file types must be .dmp; supported only on the E120 and E320 routers
  - *incoming*—Specifies the router's incoming FTP directory
  - *subdirectory*—Name of a subdirectory on the router's FTP server. If the subdirectory does not exist, the router creates it.
  - *outgoing*—Specifies the router's outgoing FTP directory
- *sourceFilename*—Name of the the source file
- *destinationPath*—Path to the destination in the format:  
`networkPath | /incoming/subdirectory | /outgoing/subdirectory`
  - *networkPath*—Path to the network host
  - *incoming*—Specifies the incoming router's FTP directory
  - *subdirectory*—Name of a subdirectory on the ERX router's FTP server. If the subdirectory does not exist, the router creates it.
  - *outgoing*—Specifies the router's outgoing FTP directory

- *destinationFilename*—Name of the destination file
- **force**—Forces a copy, even when the destination file already exists; if a file is marked by the file system as in use because it is required for the current operation or configuration, the **force** keyword cannot force a copy of that file

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
*hostName* and *deviceName* variables added in JUNOS Release 7.2.0.

## copy running-configuration

**Description** Saves the configuration currently running on the router to a local or remote (network) router configuration file (.cnf). Available only if the router is in Automatic Commit mode. There is no **no** version.

**Syntax** `copy running-configuration destination [ force ] [ include-text-config ]`

- *destination*—Destination filename (\*.cnf)
- **force**—Creates a copy even when the destination file already exists
- **include-text-config**—Generates the .cnf file including the text configuration



**NOTE:** A Perl script is provided in the Tools folder on the *E-series System Software* CD shipped with your router that enables you to use the **include-text-config** option. The UsageExtractScrFromCnf.txt file provides an explanation of how to extract the system configuration file using the extractScrFromCnf.pl script.

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**include-text-config** keyword added in JUNOS Release 9.1.0.

## copy running-configuration startup-configuration

**Description** Saves all outstanding (unsaved) configuration changes to nonvolatile storage; an exact alias of the **write memory** command. Available if the router is in either Automatic Commit mode or Manual Commit mode. If you issue this command from Automatic Commit mode, the CLI notifies you that the command is not necessary, but allows you to proceed. This command is prevented during the high availability initialization state. If the command is issued during this state, the CLI notifies you of the state and requests that you try again later. There is no **no** version.

**Syntax** `copy running-configuration startup-configuration`

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## copy startup-configuration

---

**Description** Copies the previously saved startup configuration to a local or remote (network) router configuration (\*.cnf) file. Available only if the router is in Manual Commit mode. If you have made but not saved any configuration changes, those changes are not in the startup configuration. There is no **no** version.

**Syntax** `copy startup-configuration destination [ force ]`

- *destination*—Destination filename (\*.cnf)
- *force*—Creates a copy even if the destination file already exists

**Mode** Privileged Exec

**Release Information** Command introduced before JUNOS Release 7.1.0.

## cost

---

**Description** Specifies a cost metric for an OSPF remote-neighbor interface. Used in the calculation of the SPF routing table. The **no** version restores the default value.

**Syntax** `cost intfCost`  
`no cost`

- *intfCost*—Link-state metric cost; a number in the range 1–65535; default value is 10 if there is no route to the remote neighbor; otherwise, the default is calculated based on the bandwidth of the physical interface used to reach the remote neighbor and the OSPF auto-cost reference bandwidth

**Mode** Remote Neighbor Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## country

---

**Description** Specifies a country name used to generate certificate requests. The **no** version removes the country name.

**Syntax** `[ no ] country countryCode`

- *countryCode*—Two-character country name

**Mode** IPSec Identity Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.



## crc

---

**Description** Sets the size of the cyclic redundancy check. CRC is an error-checking technique that uses a calculated numeric value to detect errors in transmitted data. 16 and 32 indicate the number of check digits per frame that are used to calculate the FCS. Both the sender and receiver must use the same setting. The default value is 16. The **no** version restores the value to the default.

**Syntax** `crc { 16 | 32 | none }`

`no crc`

- 16—Specifies CRC-16, which transmits streams of 8-bit characters and generates 16-bit check bits per frame
- 32—Specifies CRC-32, which transmits longer streams at faster rates and therefore provides better ongoing error detection
- none—Disables CRC checking

**Mode** Interface Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## crl

---

**Description** Controls how the router checks certificate revocation lists (CRLs) when determining whether to accept a peer's certificates. The **no** version restores the default setting.

**Syntax** `crl { ignored | optional | required }`

`no crl`

- ignored—Specifies that the router will not try to find or use CRLs
- optional—Specifies that the router will try to find a CRL. If a CRL is found, the peer certificate must not appear in the CRL. If no CRL is found, the peer can still authenticate; this is the default.
- required—Specifies that the router must find a valid CRL; the CRL must be current, and the peer certificate must not appear in the CRL

**Mode** IPSec CA Identity Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.

## crypto key dss

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**Description** Controls SSH server daemon and creation/deletion of SSH server host key. This command is not displayed by the **show config** command. There is no **no** version.

**Syntax** crypto key { generate | zeroize } dss

- generate—Creates the SSH server host key and enables the daemon
- zeroize—Deletes the SSH server host key and stops the SSH daemon if it is running. Issuing this command terminates any active client sessions. The next time the router boots after this command is issued, the SSH server daemon is not started.

**Mode** Global Configuration

**Release Information** Command introduced before JUNOS Release 7.1.0.