IP Router Command Reference

Command Hierarchies

Configuration Commands

Router Commands

config
— **router** [*router-name*]
    — **aggregate** *ip-prefix/ip-prefix-length* [**summary-only**] [**as-set**] [**aggregator** *as-number:ip-address*] [**black-hole**] [**community** *comm-id*] [**description** *description*]
    — **aggregate** *ip-prefix/ip-prefix-length* [**summary-only**] [**as-set**] [**aggregator** *as-number:ip-address*] [**community** *comm-id*] [**indirect** *ip-address*] [**description** *description*]
    — **no aggregate** *ip-prefix/ip-prefix-length*
    — **autonomous-system** *autonomous-system*
    — **no autonomous-system**
    — **confederation** *confed-as-num* **members** *as-number* [*as-number...*(up to 15 max)]
    — **no confederation** [*confed-as-num* **members** *as-number....*(up to 15 max)]
    — **ecmp** *max-ecmp-routes*
    — **no ecmp**
    — **fib-priority** {**high** | **standard**}
    — [**no**] **icmp-tunneling**
    — [**no**] **ignore-icmp-redirect**
    — [**no**] **ip-fast-reroute**
    — [**no**] **ldp-shortcut**
    — **mc-maximum-routes** *number* [**log-only**] [**threshold** *threshold*]
    — **no mc-maximum-routes**
    — **mpls-labels**
        —
        — **static-label-range** *static-range*
        — **no static-label-range**
        — **sr-labels** *start-value* **end** *end-value*
        — **no sr-labels**
    — **multicast-info** *policy-name*
    — **no multicast-info**
    — **multicast-info**
        — **description** *description-string*
        — **no description**
    — **origin-validation**
        — [**no**] **rpki-session** *ip-address*
            — [**no**] **connect-retry** *seconds*
            — [**no**] **description** *string*
            — [**no**] **local-address** *ip-address*
            — [**no**] **port** *number*
            — [**no**] **refresh-time** *seconds* **hold-time** *seconds*
            — [**no**] **shutdown**
            — [**no**] **stale-time** *seconds*
            — **static-entry** *ip-prefix/prefix-length1-prefix-length2* **origin-as** *as-number* [**valid** | **invalid**]
            — **no static-entry** *ip-prefix/prefix-length1-prefix-length2*
    — **router-id** *ip-address*
    — **no router-id**
    — **service-prefix** {*ip-prefix/mask* | *ip-prefix netmask*}[**exclusive**]
    — **no service-prefix** *ip-prefix/mask* | *ip-prefix netmask*}
    — **sgt-qos**
        — **application** *dscp-app-name* **dscp** {*dscp-value* | *dscp-name*}
        — **application** *dot1p-app-name* **dot1p** *dot1p-priority*
        — **no application** {*dscp-app-name* | *dot1p-app-name*}
        — **dscp** *dscp-name* **fc** *fc-name*
        — [**no**] **dscp** *dscp-name*

— **single-sfm-overload** [**holdoff-time** *holdoff-time*]
— **no single-sfm-overload**
— [**no**] **static-route** {*ip-prefix/prefix-length*| *ip-prefix netmask*} [**preference** *preference*] [**metric** *metric*] [**tag** *tag*] [**enable**|**disable**] **next-hop** *ip-int-name*|*ip-address* [**validate-next-hop**] [*mcast-family*] [**community** *comm-id*][**bfd-enable**|{**cpe-check** *cpe-ip-address* [**interval** *seconds*] [**drop-count** *count*] [**padding-size** *padding-size*] [**log**]}| {**prefix-list** *prefix-list-name* [**all**|**none**]}][**fc** *fc-name* [**priority** {low|high}]] [**source-class** *source-index*][**dest-class** *dest-index*][**ldp-sync**][**description** *description*]
— [**no**] **static-route** {*ip-prefix/prefix-length* | *ip-prefix netmask*} [**preference** *preference*] [**metric** *metric*] [**tag** *tag*] [**community** *comm-id*] [**enable** | **disable**] [**cpe-check** *cpe-ip-address* [**interval** *seconds*] [**drop-count** *count*] [**padding-size** *padding-size*] [**log**]]
— [**no**] **static-route** {*ip-prefix/prefix-length* | *ip-prefix netmask*} [**preference** *preference*] [**metric** *metric*] [**tag** *tag*] [**community** *comm-id*] [**enable** | **disable**] **black-hole** [**mcast-family**]
— **static-route-entry** {*ip-prefix/prefix-length*} [**mcast**] **indirect** {*ip-address*}
   — [**no**] **tunnel-next-hop**
      — [**no**] **disallow-igp**
      — **resolution** {**any** | **disabled** | **filter**}
      — **resolution-filter** [**ldp**] [**rsvp-te** [**lsp** *lsp name*]...[**lsp** *lsp name*]]
— [**no**] **triggered-policy**
— **ttl-propagate**
   — **label-route-local** [**none** | **all**]
   — **label-route-transit** [**none** | **all**]
   — **lsr-label-route** [**none** | **all**]
   — **vprn-local** [**none** | **vc-only** | **all**]
   — **vprn-transit** [**none** | **vc-only** | **all**]
— **weighted-ecmp**

config
— **router** management
   — **origin-validation**
      — [**no**] **rpki-session** *ip-address*
         — [**no**] **connect-retry***seconds*
         — [**no**] **description** *string*
         — [**no**] **local-address** *ip-address*
         — [**no**] **port** number
         — [**no**] **refresh-time** *seconds* **hold-time** *seconds*
         — [**no**] **shutdown**
         — [**no**] **stale-time** *seconds*

Router BFD commands

```
config
    — router
        — bfd
        — bfd-template name [create]
        — bfd-template name
                — transmit-interval transmit-interval
                — no transmit-interval
                — receive-interval receive-interval
                — no receive-interval
                — cv-tx transmit-interval
                — no cv-tx
                — echo-receive echo-interval
                — no echo-receive
                — multiplier multiplier
                — no multiplier
                — [no] type cpm-np
```

Router L2TP Commands

```
config
    — router [router-name]
        — l2tp
                — calling-number-format ascii-spec
                — no calling-number-format
                — challenge {always}
                — no challenge
                — df-bit-lac {always|never}
                — no df-bit-lac
                — destruct-timeout destruct-timeout
                — no destruct-timeout
                — exclude-avps calling-number
                — no exclude-avps
                — group tunnel-group-name [create]
                — no group tunnel-group-name
                        — avp-hiding sensitive | always
                        — no avp-hiding
                        — challenge always
                        — no challenge
                        — description description-string
                        — no description
                        — df-bit-lac {always|never|default}
                        — no df-bit-lac
                        — destruct-timeout destruct-timeout
                        — no destruct-timeout
                        — hello-interval hello-interval
                        — no hello-interval
                        — idle-timeout idle-timeout
                        — no idle-timeout
                        — lns-group lns-group-id
                        — no lns-group
                        — load-balance-method {per-session|per-tunnel}
                        — no load-balance-method
                        — local-address ip-address
                        — no local-address
                        — local-name host-name
                        — no local-name
                        — max-retries-estab max-retries
                        — no max-retries-estab
                        — max-retries-not-estab max-retries
                        — no max-retries-not-estab
                        — password password [hash | hash2]
                        — no password
                        — ppp
                                — authentication {chap|pap|pref-chap}
                                — authentication-policy auth-policy-name
                                — no authentication-policy
                                — default-group-interface ip-int-name service-id service-id
                                — no default-group-interface
                                — keepalive seconds [hold-up-multiplier multiplier]
                                — no keepalive
                                — mtu mtu-bytes
                                — no mtu
```

— [**no**] **proxy-authentication**
— [**no**] **proxy-lcp**
— **user-db** *local-user-db-name*
— **no user-db**
— **session-assign-method** *weighted*
— **no session-assign-method**
— **session-limit** *session-limit*
— **no session-limit**
— **tunnel** *tunnel-name* [**create**]
— **no tunnel** *tunnel-name*
— [**no**] **auto-establish**
— **avp-hiding** {**never** | **sensitive** | **always**}
— **no avp-hiding**
— **challenge** *challenge-mode*
— **no challenge**
— **description** *description-string*
— **no description**
— **df-bit-lac** {**always**|**never**|**default**}
— **no df-bit-lac**
— **destruct-timeout** *destruct-timeout*
— **no destruct-timeout**
— **hello-interval** *hello-interval*
— **hello-interval** **infinite**
— **no hello-interval**
— **idle-timeout** *idle-timeout*
— **idle-timeout** **infinite**
— **no idle-timeout**
— **load-balance-method** {**per-session**|**per-tunnel**}
— **no load-balance-method**
— **local-address** *ip-address*
— **no local-address**
— **local-name** *host-name*
— **no local-name**
— **max-retries-estab** *max-retries*
— **no max-retries-estab**
— **max-retries-not-estab** *max-retries*
— **no max-retries-not-estab**
— **password** *password* [**hash** | **hash2**]
— **no password**
— **peer** *ip-address*
— **no peer**
— **preference** *preference*
— **no preference**
— **remote-name** *host-name*
— **no remote-name**
— **session-limit** *session-limit*
— **no session-limit**
— [**no**] **shutdown**
— **next-attempt** {**same-preference-level** | **next-preference-level**}
— **no next-attempt**
— **replace-result-code** *code* [code...(upto 3 max)]
— **no replace-result-code**
— **peer-address-change-policy** {**accept** | **ignore** | **reject**}
— **receive-window-size** *[4..1024]*
— **no receive-window-size**

— [**no**] **shutdown**

configure
— **router**
— **l2tp**
— **tunnel-selection-blacklist**
— **add-tunnel** **never**
— **add-tunnel** **on** *reason*>[*reason*...(upto 8 max)]
— **no** **add-tunnel**
— **add-tunnel**
— **max-list-length** *count*
— **no** **max-list-length**
— **max-time** *minutes*
— **no** **max-time**
— **timeout-action** *action*
— **no** **timeout-action**

Router Interface Commands

```
config
    — router [router-name]
        — if-attribute
            — admin-group group-name value group-value
            — no admin-group group-name
            — srlg-group group-name value group-value [penalty-weight penalty-weight]
            — no srlg-group group-name
        — [no] interface ip-int-name gmpls-loopback
        — [no] interface ip-int-name [unnumbered-mpls-tp]
            — address {ip-address/mask | ip-address netmask} [broadcast all-ones | host-ones]
                [track-srrp srrp-instance]
            — no address
            — [no] allow-directed-broadcasts
            — arp-limit limit [log-only] [threshold percent]
            — no arp-limit
            — arp-timeout seconds
            — no arp-timeout
            — bfd transmit-interval [receive receive-interval] [multiplier multiplier] [echo-
                receive echo-interval [type cpm-np]
            — no bfd
            — cflowd-parameters
            — no cflowd-parameters
                — sampling {unicast | mulitcast} type {acl | interface} [direction
                    {ingress-only | egress-only|both}]
                — no sampling {unicast | mulitcast}
            — cpu-protection policy-id
            — no cpu-protection
            — delayed-enable seconds
            — no delayed-enable
            — description description-string
            — no description
            — dhcp
                — description description-string
                — no description
                — gi-address ip-address [src-ip-addr]
                — no gi-address
                — [no] option
                    — action {replace | drop | keep}
                    — no action
                    — circuit-id [ascii-tuple | ifindex | sap-id | vlan-ascii-tuple]
                    — no circuit-id
                    — remote-id [mac | string string]
                    — [no] vendor-specific-option
                        — [no] client-mac-address
                        — [no] pool-name
                        — [no] port-id
                        — [no] service-id
                        — string text
                        — no string
                        — [no] system-id
                — python-policy <[256 chars max]>
                — no python-policy
                — [no] relay-plain-bootp
```

— **server** *server1* [*server2*...(up to 8 max)]
— **no server**
— [**no**] **shutdown**
— [**no**] **trusted**
— **dist-cpu-protection** *policy-name*
— **no dist-cpu-protection**
— **egress**
    — **filter ip** *ip-filter-id*
    — **filter ipv6** *ipv6-filter-id*
    — **no filter** [**ip** *ip-filter-id*] [**ipv6** *ipv6-filter-id*]
— [**no**] **enable-ingress-stats**
— [**no**] **enable-mac-accounting**
— **icmp**
    — [**no**] **mask-reply**
    — **redirects** [*number seconds*]
    — **no redirects**
    — **ttl-expired** [*number seconds*]
    — **no ttl-expired**
    — **unreachables** [*number seconds*]
    — **no unreachables**
— **if-attribute**
    — [**no**] **admin-group** *group-name* [*group-name*...(up to 5 max)]
    — **no admin-group**
    — [**no**] **srlg-group** *group-name* [*group-name*...(up to 5 max)]
    — **no srlg-group**
— **ingress**
    — **filter ip** *ip-filter-id*
    — **filter ipv6** *ipv6-filter-id*
    — **no filter** [**ip** *ip-filter-id*][**ipv6** *ipv6-filter-id*]
    — [**no**] **flowspec**
    — [**no**] **flowspec-ipv6**
— **ip-mtu** *octets*
— **no ip-mtu**
— **lag-link-map-profile** *lnk-map-profile-id*
— **no lag-link-map-profile**
— **ldp-sync-timer** *seconds*
— **no ldp-sync-timer**
— **load-balancing**
    — **egr-ip-load-balancing** {**source** | **destination** | **inner-ip**}
    — **no egr-ip-load-balancing**
    — **lsr-load-balancing** *hashing-algorithm*
    — **no lsr-load-balancing**
    — [**no**] **spi-load-balancing**
    — [**no**] **teid-load-balancing**
— [**no**] **local-proxy-arp**
— [**no**] **loopback**
— **mac** *ieee-mac-addr*
— **no mac**
— [**no**] **multihoming** **primary|secondary** [**hold-time** *holdover-time*]
— **network-domain** *network-domain-name*
— **no network-domain**
— [**no**] **ntp-broadcast**
— **port** *port-name*
— **no port**
— [**no**] **proxy-arp-policy**

— [**no**] **ptp-hw-assist**
— **qos-route-lookup** [**source** | **destination**]
— **no qos-route-lookup**
— **qos** *network-policy-id* [**egress-port-redirect-group** *queue-group-name*] [**egress-instance** *instance-id*]] [**ingress-fp- redirect-group** *queue-group-name* **ingress-instance** *instance-id*]
— **no qos**
— [**no**] **remote-proxy-arp**
— **secondary** {[*ip-addr/mask* | *ip-addr*][*netmask*]} [**broadcast** {*all-ones* | *host-ones*}] [**igp-inhibit**]
— **no secondary** [*ip-addr/mask* | *ip-addr*][*netmask*]
— [**no**] **shutdown**
— **static-arp** *ip-addr ieee-mac-addr unnumbered*
— **no static-arp** *unnumbered*
— [**no**] **strip-label**
— **tcp-mss** *mss-value*
— **no tcp-mss**
— **tos-marking-state** {**trusted** | **untrusted**}
— **no tos-marking-state**
— **unnumbered** [*ip-addr* | *ip-int-name*]
— **no unnumbered**
— [**no**] **urpf-check**
— **mode** {**strict**|**loose**|**strict-no-ecmp**}
— **no mode**
— **vas-if-type** {**to-from-access** | **to-from-network** | **to-from-both**}
— **no vas-if-type**
— [**no**] **mh-primary-interface**
— **address** {*ip-address/mask* | *ip-address netmask*}
— **no address**
— **description** *description-string*
— **no description**
— [**no**] **shutdown**
— [**no**] **mh-secondary-interface**
— **hold-time** *holdover-time*
— **no hold-time**
— **address** {*ip-address/mask* | *ip-address netmask*}
— **no address**
— **description** *description-string*
— **no description**
— [**no**] **shutdown**
— **route-next-hop-policy**
— [**no**] **template** *template-name*
— **include-group** *group-name* [**pref** *pref*]
— **no include-group** *group-name*
— [**no**] **exclude-group** *group-name*
— [**no**] **srlg-enable**
— **protection-type** {**link** | **node**}
— **no protection-type**
— **nh-type** {**ip** | **tunnel**}
— **no nh-type**

For router interface VRRP commands, see

Router Interface IPv6 Commands

```
config
    — router [router-name]
        — [no] interface ip-int-name
            — [no] ipv6
                — address ipv6-address/prefix-length [eui-64]
                — no address ipv6-address/prefix-length
                — bfd transmit-interval [receive receive-interval] [multiplier multiplier]
                  [echo-receive echo-interval [type cpm-np]
                — no bfd
                — [no] dad-disable
                — icmp6
                    — packet-too-big [number seconds]
                    — no packet-too-big
                    — param-problem [number seconds]
                    — no param-problem
                    — redirects [number seconds]
                    — no redirects
                    — time-exceeded [number seconds]
                    — no time-exceeded
                    — unreachables [number seconds]
                    — no unreachables
                — link-local-address ipv6-address [preferred]
                — [no] local-proxy-nd
                — neighbor ipv6-address [mac-address]
                — no neighbor ipv6-address
                — neighbor-limit limit [log-only] [threshold percent]
                — no neighbor-limit
                — proxy-nd-policy policy-name [ policy-name...(up to 5 max)]
                — no proxy-nd-policy
                — [no] qos-route-lookup
                — [no] secure-nd
                    — [no] allow-unsecured-msgs
                    — link-local-modifier modifier
                    — no link-local-modifier
                    — public-key-min-bits bits
                    — no public-key-min-bits
                    — security-parameter sec
                    — no security-parameter
                    — [no] shutdown
                — stale-time seconds
                — no stale-time
                — tcp-mss mss-value
                — no tcp-mss
                — [no] urpf-check
                    — mode {strict | loose | strict-no-ecmp}
                    — no mode
            — [no] qos-route-lookup
            — [no] urpf-check
                — mode {strict | loose}
                — no mode
```

Router Advertisement Commands

```
config
    — router
        — [no] router-advertisement
            — [no] dns-options
                — dns-servers ipv6-address
                — no dns-servers
                — rdnss-lifetime seconds
                — no rdnss-lifetime
            — [no] interface ip-int-name
                — current-hop-limit number
                — no current-hop-limit
                — [no] dns-options
                    — dns-servers ipv6-address
                    — no dns-servers
                    — rdnss-lifetime {seconds | infinite}
                    — no rdnss-lifetime
                    — [no] include-dns
                — [no] managed-configuration
                — max-advertisement-interval seconds
                — no max-advertisement-interval
                — min-advertisement-interval seconds
                — no min-advertisement-interval
                — mtu mtu-bytes
                — no mtu
                — [no] other-stateful-configuration
                — prefix [ipv6-prefix/prefix-length]
                    — [no] autonomous
                    — [no] on-link
                    — preferred-lifetime {seconds | infinite}
                    — no preferred-lifetime
                    — valid-lifetime {seconds | infinite}
                    — no valid-lifetime
                — reachable-time milli-seconds
                — no reachable-time
                — retransmit-time milli-seconds
                — no retransmit-time
                — router-lifetime seconds
                — no router-lifetime
                — [no] shutdown
                — [no] use-virtual-mac
```

Show Commands

show
— **router** *router-instance*
— **router service-name** *service-name*
    — **aggregate** [**family**] [*active*]
    — **arp** [*ip-int-name* | *ip-address/mask* | **mac** *ieee-mac-address* | **summary**] [**local** | **dynamic** | **static** | **managed**]
    — **authentication**
        — **statistics**
        — **statistics interface** [*ip-int-name* | *ip-address*]
        — **statistics policy** *name*
    — **bfd**
        — **bfd-template** *template-name*
        — **interface** [*interface-name*]
        — **session** [**src** *ip-address* [**dst** *ip-address*] | [**detail**]]
        — **session** [**type** *type*]
        — **session** [**summary**]
    — **dhcp**
        — **statistics** [*ip-int-name* | *ip-address*]
        — **summary**
    — **dhcp6**
        — **statistics** [*ip-int-name* | *ip-address*]
        — **summary**
    — **ecmp**
    — **fib** *slot-number* [*family*] [*ip-prefix/prefix-length* [*longer*]] [*secondary*]
    — **fib** *slot-number* [*family*] **summary**
    — **fib** *slot-number* **nh-table-usage**
    — **fp-tunnel-table** *slot-number* [*ip-prefix/prefix-length*]
    — **icmp6**
    — **if-attribute**
        — **srlg-group** [*name*]
    — **interface** [{[*ip-address*|*ip-int-name*][**detail**] [**family**]}|**summary**| **exclude-services**]
    — **interface** *ip-address*|*ip-int-name* **eth-cfm** [**detail**]
    — **interface** *ip-address*|*ip-int-name* **mac** [*ieee-address*]
    — **interface** *ip-address*|*ip-int-name* **statistics**
    — **interface dist-cpu-protection** [**detail**]
    — **interface policy-accounting** [**class** [*index*]]
    — **l2tp**
        — **group** [*tunnel-group-name* [**statistics**]]
        — **group connection-id** *connection-id* [**detail**]|
        — **group** [**detail**] [**session-id** *session-id* (v2)] [**state** *session-state*][**peer** *ip-address*] [**group** *group-name*] [**assignment-id** *assignment-id*] [**local-name***local-host-name*] [**remote-name** *remote-host-name*] [**tunnel-id** *tunnel-id (v2)*]|
        — **session** [**detail**] [**state** *session-state*] [**peer** *ip-address*] [**group** *group-name*] [**assignment-id** *assignment-id*] [**local-name** *local-host-name*] [**remote-name** *remote-host-name*] [**control-connection-id** *connection-id (v3)*]
        — **statistics**
        — **tunnel** [**statistics**] [**detail**] [**peer** *ip-address*] [**state** *tunnel-state*] [**remote-connection-id** *remote-connection-id (v3)*] [**group** *group-name*] [**assignment-id** *assignment-id*] [**local-name** *host-name*] [**remote-name** *host-name*]| **tunnel** [**statistics**] [**detail**] [**peer** *ip-address*] [**state** *tunnel-state*] [**remote-tunnel-id** *remote-tunnel-id (v2)*] [**group** *group-name*] [**assignment-id** *assignment-id*] [**local-name** *host-name*] [**remote-name** *host-name*]
        — **tunnel tunnel-id** *tunnel-id (v2)* [**statistics**] [**detail**]

— **tunnel** **connection-id** *connection-id (v3)* [**statistics**] [**detail**]
— **ldp**
— **bindings** **active**
— **mvpn**
— **neighbor** [*ip-address* | *ip-int-name* | **mac** *ieee-mac-address* | **summary**]
— **network-domains** [**detail**] [*network-domain-name*]
— **policy** [*name* | **damping** | **prefix-list** *name* | **as-path** *name* | **community** *name* | **admin**]
— **policy-edits**
— **route-table** [*family*] [*ip-prefix*[*/prefix-length*] [**longer**|**exact**|**protocol** *protocol-name*] [**all**]]
  [**next-hop-type** *type*][**qos**][**alternative**]
— **route-table** [**family**] **summary**
— **route-table** *tunnel-endpoints* [**ip-prefix**[**/prefix-length**]] [**longer**|**exact**] [**detail**]
— **rtr-advertisement** [**interface** *interface-name*] [**prefix** *ipv6-prefix*[*/prefix-length*] [**conflicts**]
— **service-prefix**
— **sgt-qos**
— **application** [*app-name*] [**dscp-dot1p**]
— **dscp-map** [*dscp-name*]
— **static-arp** [*ip-address* | *ip-int-name* | **mac** *ieee-mac-addr*]
— **static-route** [*family*] [[*ip-prefix /mask*]| [**preference** *preference*] | [**next-hop** *ip-address*] |
  [**tag** *tag*] [**detail**]
— **status**
— **tms** **routes**
— **tunnel-table** [*ip-address*[*/mask*]] | [**protocol** *protocol* | **sdp** *sdp-id*] [**summary**]
— **neighbor** [*interface-name*]

Clear Commands

clear
— **router** [*router-instance*]
 — **arp** {**all** | *ip-addr* | **interface** {*ip-int-name* | *ip-addr*}}
 — **bfd**
  — **session** **src-ip** *ip-address* **dst-ip** *ip-address*
  — **statistics** **src-ip** *ip-address* **dst-ip** *ip-address*
  — **statistics** **all**
 — **dhcp**
  — **statistics** [*ip-int-name* | *ip-address*]
 — **dhcp6**
  — **statistics** [*ip-int-name* | *ip-address*]
 — **forwarding-table** [*slot-number*]
 — **grt-lookup**
 — **icmp-redirect-route** {**all** | *ip-address*}
 — **icmp6 all**
 — **icmp6 global**
 — **icmp6 interface** *interface-name*
 — **interface** [*ip-int-name* | *ip-addr*] [**icmp**] [urpf-stats] [statistics]
 — **l2tp**
  — **group** *tunnel-group-name*
   — **statistics**
  — **statistics**
  — **tunnel** *tunnel-id*
   — **statistics**
 — **neighbor** {**all** | *ip-address*}
 — **neighbor** [**interface** *ip-int-name* | *ip-address*]
 — **router-advertisement all**
 — **router-advertisement** [**interface** *interface-name*]
 — **forwarding-table** [*slot-number*]
 — **interface** [*ip-int-name* | *ip-addr*] [**icmp**]

Debug Commands

debug
— **trace**
— **destination** *trace-destination*
— **enable**
— [**no**] **trace-point** [**module** *module-name*] [**type** *event-type*] [**class** *event-class*] [**task** *task-name*] [**function** *function-name*]
— **router** *router-instance*
— **ip**
— [**no**] **arp**
— **icmp**
— **no icmp**
— **icmp6** [*ip-int-name*]
— **no icmp6**
— [**no**] **interface** [*ip-int-name* | *ip-address*]
— [**no**] **neighbor**
— **packet** [*ip-int-name* | *ip-address*] [**headers**] [*protocol-id*]
— **no packet** [*ip-int-name* | *ip-address*]
— **route-table** [*ip-prefix/prefix-length*] [**longer**]
— **no route-table**
— **tunnel-table** [*ip-address*] [**ldp** | **rsvp** [**tunnel-id** *tunnel-id*]| **sdp** [**sdp-id** *sdp-id*]]
— **mtrace**
— [**no**] **misc**
— [**no**] **packet** [**query** | **request** | **response**]
— **tms** [**interface** *tms-interface*] **api** [**detail**] *tms-interface*