
IS-IS Command Reference

Command Hierarchies

Configuration Commands

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```

config
  — router
    — [no] isis [isis-instance]
      — [no] advertise-passive-only
      — advertise-router-capability {area | as}
      — no advertise-router-capability
      — [no] advertise-tunnel-link
      — all-l1isis ieee-address
      — no all-l1isis
      — all-l2isis ieee-address
      — no all-l2isis
      — [no] area-id area-address
      — [no] authentication-check
      — authentication-key [authentication-key | hash-key] [hash | hash2]
      — no authentication-key
      — authentication-type {password | message-digest}
      — no authentication-type
      — auth-keychain keychain-name
      — no auth-keychain
      — [no] csnp-authentication
      — default-route-tag tag
      — no default-route-tag
      — [no] disable-ldp-sync
      — export policy-name [.. policy-name]
      — no export
      — export-limit number [log percentage]
      — no export-limit
      — [no] graceful-restart
        — [no] helper-disable
      — [no] hello-authentication
      — [no] hello-padding {adaptive | loose | strict}
      — ignore-attached-bit
      — [no] ignore-attached-bit
      — [no] ignore-lsp-errors

```

- [no] **ignore-narrow-metric**
- [no] **iid-tlv-enable**
- [no] **interface** *ip-init-name*
 - [no] **bfd-enable** {**ipv4** | **ipv6**} [*include-bfd-tlv*]
 - [no] **default-instance**
 - **hello-authentication-key** [*authentication-key* | *hash-key*][**hash** | **hash2**]
 - **no hello-authentication-key**
 - **hello-authentication-type** {**password** | **message-digest**}
 - **no hello-authentication-type**
 - **level**
 - **hello-interval** *seconds*
 - **no hello-interval**
 - **hello-multiplier** *multiplier*
 - **no hello-multiplier**
 - **ipv6-unicast-metric** *metric*
 - **no ipv6-unicast-metric**
 - [no] **if-topology** *mt-id*
 - **interface-type** {**broadcast** | **point-to-point**}
 - **no interface-type**
 - **ipv4-node-sid** **index** *value*
 - **ipv4-node-sid** **label** *value*
 - **no ipv4-node-sid**
- **ipv4-multicast-routing** {**native** | **mt**}
- [no] **ipv4-multicast-routing**
- **ipv6-multicast-routing** {**native** | **mt**}
- [no] **ipv6-multicast-routing**
- [no] **ipv4-routing**
- [no] **ipv6-routing** {**native** | **mt**}
- [no] **ldp-over-rsvp**
- **level** {**1** | **2**}
 - **authentication-key** [*authentication-key* | *hash-key*] [**hash** | **hash2**]
 - **no authentication-key**
 - **authentication-type** {**password** | **message-digest**}
 - **no authentication-type**
 - **auth-keychain** *keychain-name*
 - **no auth-keychain**
 - [no] **csnp-authentication**
 - **default-ipv4-multicast-metric** *metric*
 - **default-ipv6-multicast-metric** *metric*
 - **default-ipv6-unicast-metric** *ipv6 metric*
 - **no default-ipv6-unicast-metric**
 - **default-metric** *ipv4 metric*
 - **no default-metric**
 - **external-preference** *external-preference*
 - **no external-preference**
 - [no] **hello-authentication**
 - [no] **loopfree-alternate-exclude**
 - **preference** *preference*
 - **no preference**
 - [no] **psnp-authentication**
 - [no] **wide-metrics-only**
- **level-capability** {**level-1** | **level-2** | **level-1/2**}
- **link-group** *link-group-name*
- **no link-group**

- **description** *string*
- **no description**
- **ipv4-multicast-metric-offset** *offset-value*
- **no ipv4-multicast-metric-offset**
- **ipv6-multicast-metric-offset** *offset-value*
- **no ipv6-multicast-metric-offset**
- **ipv4-unicast-metric-offset** *offset-value*
- **no ipv4-unicast-metric-offset**
- **ipv6-unicast-metric-offset** *offset-value*
- **no ipv6-unicast-metric-offset**
- **no member** *interface-name*
- **oper-members** [0-8]
- **no oper-members**
- **revert-members** [0-8]
- **no revert-members**
- **loopfree-alternate** [**remote-lfa** [**max-pq-cost** *value*]]
- **no loopfree-alternate**
- **loopfree-alternate-exclude** **prefix-policy** *prefix-policy* [*prefix-policy...* up to 5]
- **lsp-lifetime** *seconds*
- **no lsp-lifetime**
- **lsp-mtu-size** *size*
- **no lsp-mtu-size-size**
- **lsp-refresh-interval** *seconds*
- **no lsp-refresh-interval**
- [**no**] **lsp-wait** *lsp-wait* [*lsp-initial-wait* [*lsp-second-wait*]]
- [**no**] **mcast-import-ipv6**
- [**no**] **multi-topology**
 - [**no**] **ipv4-multicast**
 - [**no**] **ipv6-multicast**
 - [**no**] **ipv6-unicast**
 - **topology** *mt-id* **rtm** *rtm-id* | *rtm-name*
 - **no topology** *mt-id*
- [**no**] **multicast-import**
- **overload** [**timeout** *seconds*]
- **no overload**
- **overload-on-boot** [**timeout** *seconds*]
- **no overload-on-boot**
- [**no**] **poi-tlv-enable**
- [**no**] **psnp-authentication**
- **reference-bandwidth** *bandwidth-in-kbps*
- **reference-bandwidth** [**tbps** *Tera-bps*] [**gbps** *Giga-bps*] [**mbps** *Mega-bps*] [**kbps** *Kilo-bps*]
- **no reference-bandwidth**
- **rib-priority** {**high**} *prefix-list-name* | **tag** *tag-value*
- **no rib-priority**
- [**no**] **rsvp-shortcut**
- **segment-routing**
- **no segment-routing**
 - **prefix-sid-range** {**global** | **start-label** *label-value* **max-index** *index-value*}
 - **no prefix-sid-range**
 - **tunnel-mtu** *bytes*
 - **no tunnel-mtu**
 - **tunnel-table-pref** *preference*
 - **no tunnel-table-pref**

- [no] **shutdown**
- [no] **shutdown**
- [no] **spf-wait** *spf-wait* [*spf-initial-wait* [*spf-second-wait*]]
- [no] **strict-adjacency-check**
- **summary-address** {*ip-prefix/mask* | *ip-prefix* [*netmask*]} **level** [**tag** *tag*]
- **no summary-address** {*ip-prefix/mask* | *ip-prefix* [*netmask*]}]
- **suppress-attached-bit**
- **no suppress-attached-bit**
- [no] **traffic-engineering**
- [no] **unicast-import-disable**
- [no] **interface-type** *ip-int-name*
 - [no] **default-route-tag** {**ipv4** | **ipv6**}[*include-bfd-tlv*]
 - **csnp-interval** *seconds*
 - **no csnp-interval**
 - **hello-authentication-key** [*authentication-key* | *hash-key*][**hash** | **hash2**]
 - **no hello-authentication-key**
 - **hello-authentication-type** {**password** | **message-digest**}
 - **no hello-authentication-type**
 - **hello-auth-keychain** *keychain-name*
 - **no hello-auth-keychain**
 - **interface-type** {**broadcast** | **point-to-point**}
 - **no interface-type**
 - **no loopfree-alternate-exclude**
 - [no] **metric**
 - **level** {**1** | **2**}
 - **hello-authentication-key** [*authentication-key* | *hash-key*] [**hash** | **hash2**]
 - **no hello-authentication-key**
 - **hello-authentication-type** [**password** | **message-digest**]
 - **no hello-authentication-type**
 - **hello-auth-keychain** *keychain-name*
 - **no hello-auth-keychain**
 - **hello-interval** *seconds*
 - **no hello-interval**
 - **hello-multiplier** *multiplier*
 - **no hello-multiplier**
 - **if-topology** *mt-id*
 - **no if-topology** *mt-id*
 - **ipv6-unicast-metric** *metric*
 - **no ipv6-unicast-metric**
 - [no] **ldp-over-rsvp**
 - **metric** *metric*
 - **no metric**
 - [no] **passive**
 - **priority** *number*
 - **no priority**
 - **sd-offset** *offset-value*
 - **no sd-offset**
 - **sf-offset**
 - **no sf-offset**
 - **level-capability** {**level-1** | **level-2** | **level-1/2**}
 - **loopfree-alternate** **route-nh-template** *template-name*
 - **no lfa-policy-map**
 - [no] **loopfree-alternate**

- [no] **loopfree-alternate-exclude** **prefix-policy** *prefix-policy* [*prefix-policy...* up to 5]
- **lsp-pacing-interval** *milli-seconds*
- **no lsp-pacing-interval**
- **mesh-group** [*value* | **blocked**]
- **no mesh-group**
- [no] **passive**
- **retransmit-interval** *seconds*
- **no retransmit-interval**
- [no] **shutdown**
- **tag** *tag*
- **no tag**

Show Commands

- ```
show
 — router
 — isis [isis-instance]
 — adjacency [ip-address | ip-int-name | nbr-system-id] [detail]
 — capabilities [system-id | lsp-id] [level level]
 — database [system-id | lsp-id] [detail] [level level]
 — hostname
 — interface [ip-int-name | ip-address] [detail]
 — lfa-coverage
 — link-group-member-status name [level level]
 — link-group-status name [level level]
 — prefix-sids [ipv4-unicast|ipv6-unicast|ipv4-multicast|ipv6-multicast|mt mt-id-number][ip-prefix/prefix-length][sid sid][adv-router system-id/hostname]
 — routes [ipv4-unicast | ipv6-unicast | ipv4-multicast | ipv6-multicast | mt mt-id-number] [ip-prefix/prefix-length] [alternative] [exclude-shortcut]
 — spf-log [detail]
 — statistics
 — status
 — summary-address [ip-address [/mask]]
 — topology [ipv4-unicast | ipv6-unicast | ipv4-multicast | ipv6-multicast | mt mt-id-number] [lfa] [detail]
```

## Clear Commands

- ```
clear
  — router
    — isis [isis-instance]
      — adjacency [system-id]
      — database [system-id]
      — export
      — overload {rtm | fib}
      — spf-log
      — statistics
```

Command Hierarchies

Debug Commands

```
debug
  — router
    — isis [isis-instance]
      — [no] adjacency [ip-int-name | ip-address | nbr-system-id]
      — [no] cspf
      — [no] graceful-restart
      — interface [ip-int-name | ip-address]
      — no interface
      — leak [ip-address]
      — no leak
      — [no] lsdb [level-number] [system-id | lsp-id]
      — [no] misc
      — packet [packet-type] [ip-int-name | ip-address] [detail]
      — rtm [ip-address]
      — no rtm
      — [no] spf [level-number] [system-id]
```