LDP Command Reference

Command Hierarchies

LDP Commands

```
config
    — router
        — [no] ldp
            — [no] adv-adj-addr-only
            — [no] aggregate-prefix-match
                — prefix-exclude policy-name [policy-name...(up to 5 max)]
                — no prefix-exclude
                — [no] shutdown
            — egress-statistics
                — [no] fec-prefix ip-prefix[/mask]
                    — accounting-policy policy-id
                    — no accounting-policy
                    — [no] collect-stats
                    — [no] shutdown
            — export policy-name [policy-name...(up to 5 max)]
            — no export
            — [no] fast-reroute
            — [no] export-tunnel-table policy-name
            — fec-originate ip-prefix/mask [advertised-label in-label] next-hop ip-address
              [swap-label out-label] interface interface-name
            — no fec-originate ip-prefix/mask next-hop ip-address interface interface-name
            — fec-originate ip-prefix/mask [advertised-label in-label] pop interface interface-
              name
            — no fec-originate ip-prefix/mask pop interface interface-name
            — [no] graceful-restart
                — maximum-recovery-time interval
                — no maximum-recovery-time
                — neighbor-liveness-time interval
                — no neighbor-liveness-time
            — [no] implicit-null-label
            — import policy-name [policy-name...(up to 5 max)]
            — no import
            — interface-parameters
                — bfd
                — hello timeout factor
                — no hello
```

— [**no**] **interface** *ip-int-name*
  — [**no**] **bfd-enable**
  — **hello** *timeout factor*
  — **no hello**
  — **keepalive** *timeout factor*
  — **no keepalive**
  — [**no**] **multicast-traffic** {**enable|disable**}
  — **local-lsr-id** {**system** | **interface** | **interface-name** *interface-name*}
  — **no local-lsr-id**
  — [**no**] **shutdown**
  — **transport-address** {**system** | **interface**}
  — **no transport-address**
— **keepalive** *timeout factor*
— **no keepalive**
— **transport-address** {**system** | **interface**}
— **no transport-address**
— **label-withdrawal-delay** *seconds*
— [**no**] **mcast-upstream-frr**
— **mp-mbb-time** *interval*
— **no mp-mbb-time**
— **peer-parameters**
  — **peer** *ip-address*
  — **no peer** [*ip-address*]
    — [**no**] **adv-adj-addr-only**
    — **auth-keychain** *name*
    — **authentication-key** [*authentication-key* | *hash-key*] [**hash** | **hash2**]
    — **no authentication-key**
    — [**no**] **dod-label-distribution**
    — [**no**] **export-prefixes** *policy-name*
    — [**no**] **fec129-cisco-interop**
    — [**no**] **import-prefixes** *policy-name*
    — [**no**] **path-mtu-discovery**
    — [**no**] **pe-id-mac-flush-interop**
    — **ttl-security** *min-ttl-value*
    — **no ttl-security**
— [**no**] **mp-mbb-time**
— [**no**] **prefer-tunnel-in-tunnel**
— [**no**] **shortcut-transit-ttl-propagate**
— [**no**] **shortcut-local-ttl-propagate**
— [**no**] **shutdown**
— **targeted-session**
  — [**no**] **disable-targeted-session**
  — **export-prefixes** *policy-name* [*policy-name*...(up to 5 max)]
  — **no export-prefixes**
  — **hello** *timeout factor*
  — **no hello**
  — **hello-reduction** {**enable** *factor* | **disable**}
  — **no hello-reduction**
  — **import-prefixes** *policy-name* [*policy-name*...(up to 5 max)]
  — **no import-prefixes**
  — **keepalive** *timeout factor*
  — **no keepalive**
  — **local-lsr-id** *interface-name*

— no **local-lsr-id**
— **peer** *ip-address*
— no **peer** *ip-address*
   — [**no**] **bfd-enable**
   — **hello** *timeout factor*
   — no **hello**
   — **hello-reduction** {**enable** *factor* | **disable**}
   — no **hello-reduction**
   — **keepalive** *timeout factor*
   — no **keepalive**
   — **local-lsr-id** *interface-name*
   — no **local-lsr-id**
   — [**no**] **shutdown**
   — [**no**] **tunneling**
      — [**no**] **lsp**
— [**no**] **peer-template**
   — [**no**] **bfd-enable**
   — **hello** *timeout factor*
   — no **hello**
   — **hello-reduction** {**enable** *factor* | **disable**}
   — no **hello-reduction**
   — **keepalive** *timeout factor*
   — no **keepalive**
   — **local-lsr-id** *interface-name*
   — no **local-lsr-id**
   — [**no**] **shutdown**
   — [**no**] **tunneling**
— **peer-template-map** *template-name* **policy** *peer-prefix-policy1* [*peer-prefix-policy2... up to 5*]
— no **peer-template-map** *template-name*
— **tunnel-down-damp-time** *seconds*
— no **tunnel-down-damp-time**
— [**no**] **ldp-shortcut**

Show Commands

show
— **router**
— **ldp**
— **adv-adj-addr-only**
— **auth-keychain** [*keychain*]
— **bindings active** [**prefix** *ip-prefix/mask*] [**summary** | **egress-nh** *ip-prefix/mask* |
egress-if *port-id* | **egress-lsp** *tunnel-id*]
— **bindings active** [**fec-type** prefixes] [prefix *<ip-prefix/mask>*] [egress-nh *<ip-pre-fix/mask>* | egress-if *<port-id>* | egress-lsp *<tunnel-id>*] [summary]
— **bindings active** [**fec-type** p2mp] [p2mp-id *<identifier>* root *<ip-address>*]
[egress-nh *<ip-prefix/mask>* | egress-if *<port-id>* | egress-lsp *<tunnel-id>*] [sum-mary]
— **bindings**[**fec-type** *fec-type* [**detail** | **summary**]] [**session** *ip-addr*[:*label-space*]]
— **bindings** [*label-type*] [*start-label* [*end-label*]
— **bindings** {**prefix** *ip-prefix/mask* [**detail**]}[**session** *ip-addr*[:*label-space*]]
— **bindings active** [**prefix** *ip-prefix/mask*] [**summary** | **egress-nh** *ip-prefix/mask* |
egress-if *port-id* | **egress-lsp** *tunnel-id*]
— **bindings service-id** *service-id* [**detail**]
— **bindings vc-type** *vc-type* [{**vc-id** *vc-id*| **agi** *agi*} [**session** *ip-addr*[:*lab el-space*]]]
— **discovery** [{**peer** [*ip-address*]} | {**interface** [*ip-int-name*]}] [**state** *state*] [**detail**]
[**adjacency-type** *type*]
— **fec-egress-stats** [*ip-prefix/mask*]
— **fec-egress-stats active**
— **fec-originate** *ip-prefix/mask* [*operation-type*]
— **interface** [*ip-int-name* | *ip-address*] [**detail**]
— **parameters**
— **peer** [*ip-address*] [**detail**]
— **peer-parameters** *peer-ip-address*
— **peer-template**
— **peer-template-map** [**tldp-peers**]
— **session** [*ip-addr*[:*label-space*]] [**detail** | **statistics** [*packet-type*]] [*session-type*]
— **status**
— **statistics-summary**

Note: See 7750 SR *OS OAM and Diagnostics Guide* for tools command descriptions, syntax, and usage information.

Clear Commands

clear
— **router**
— **ldp**
— **fec-egress-statistics** [*ip-prefix/mask*]
— **instance**
— **interface** [*ip-int-name*]
— **peer** [*ip-address*] [**statistics**]
— **session** [*ip-addr*[:*label-space*]] [**statistics**]
— **statistics**

Debug Commands

[**no**] **debug**
— **router**
— [**no**] **ldp**
— [**no**] **interface** *interface-name*
— [**no**] **event**
— [**no**] **messages**
— [**no**] **packet** [**detail**]
— **hello** [**detail**]
— **no hello**
— **peer** *ip-address*
— [**no**] **event**
— [**no**] **bindings**
— [**no**] **messages**
— [**no**] **packet**
— **hello** [**detail**]
— **no hello**
— **init** [**detail**]
— **no init**
— [**no**] **keepalive**
— **label** [**detail**]
— **no label**

Tools Commands

See 7750 SR *OS OAM and Diagnostics Guide* for CLI description and syntax.

tools
— **dump**
— **ldp-treetrace** {**prefix** *ip-prefix/mask*| **manual-prefix** *ip-prefix/mask*}[**path-destination** *ip-address*] [**trace-tree**]
— **router**
— **ldp**
— **peer** *ip-address*