
Tools Command Reference

Command Hierarchies

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- Tools Perform Commands on page 586

Configuration Commands

Tools Dump Commands

tools

— dump

- **aps** *aps-id* [clear]
- **aps mc-aps-signaling** [clear]
- **aps mc-aps-ppp** [clear]
- **lag** *lag-id lag-id*
- **ldp-treetrace** {**prefix** *ip-prefix/mask*| **manual-prefix** *ip-prefix/mask*} [**path-destination** *ip-address*] [**trace-tree**]
- **map-to-phy-port** {**ccag** *ccag-id* | **lag** *lag-id* | **eth-tunnel** *tunnel-index*} { **isid** *isid* [**end-isid** *isid*] | **service** *service-id* | *svc-name* [**end-service** *service-id* | *svc-name*]} [**summary**]
- **nat**
 - **deterministic-mapping** **outside-ip** *ipv4-address* **router** *router-instance* **outside-port** [1..65535]
 - **histogram** **router** *router-instance* **pool** *pool-name* **bucket-size** [1..65536] **num-buckets** [2..50]
 - **isa**
 - **resources** **mda** *mda-id*
 - **sessions** [**nat-group** *nat-group-id*] [**mda** *mda-id*] [**protocol** {**gre**|**icmp**|**tcp**|**udp**}] [**inside-ip** *ip-address*] [**inside-router** *router-instance*] [**inside-port** *port-number*] [**outside-ip** *ipv4-address*] [**outside-port** *port-number*] [**foreign-ip** *ipv4-address*] [**foreign-port** *port-number*] [**dslite-address** *ipv6-address*] [**wlan-gw-ue** *ieee-address*] [**next-index** *index*] [**upnp**]
- **persistence**
 - **submgt** [**record** *record-key*]
 - **summary**
- **port** *port id*
 - **dwdm**
 - **coherent**
 - **cpr-wndw-sz-sr***
 - **cpr-wndw-sz-srch-info**
 - **pcs** [clear]
- **ppp** *port-id*
- **redundancy**
 - **multi-chassis**
 - **mc-endpoint** **peer** *ip-address*
 - **mc-ring**
 - **mc-ring** **peer** *ip-address* [ring *sync-tag*]

- **srrp-sync-database** [*instance instance-id*] [*peer ip-address*]
- **sync-database** [*peer ip-address*] [*port port-id | lag-id*] [**sync-tag** *sync-tag*] [**application** *application*] [**detail**] [**type** *type*]
- **router** *router-instance*
 - **dhcp**
 - **group-if-mapping** [**clear**]
 - **group-if-stats** [**clear**]
 - **ldp**
 - **fec** **p2mp-id** *identifier* **root** *ip-address*
 - **fec** **prefix** *ip-address[/mask]*
 - **fec** **root** *ip-address* **source** *ip-address* **group** *mcast-address* [**rd** *rd*]
 - **fec** **vc-type** *vc-type* **vc-id** *vc-id*
 - **instance**
 - **interface** [*ip-int-name | ip-address*]
 - **memory-usage**
 - **peer** *ip-address*
 - **session** [*ip-addr[:label-space]*] [**connection|peer|adjacency**]
 - **sockets**
 - **timers** [**session** *ip-addr[
label-space*]]
 - **mpls**
 - **ftn** [**endpoint** *endpoint* | **sender** *sender* | **nexthop** *nexthop* | **lsp-id** *lsp-id* | **tunnel-id** *tunnel-id* | **label** *start-label end-label*]
 - **ilm** [**endpoint** *endpoint* | **sender** *sender* | **nexthop** *nexthop* | **lsp-id** *lsp-id* | **tunnel-id** *tunnel-id* | **label** *start-label end-label*]
 - **lspinfo** [*lsp-name*] [**detail**]
 - **memory-usage**
 - **te-lspinfo** [**endpoint** *ip-address*] [**sender** *ip-address*] [**lspid** *lsp-id*] [**detail**] [**p2p** | *p2p-tid tunnel-id*]
 - **te-lspinfo** [**endpoint** *ip-address*] [**sender** *ip-address*] [**lspid** *lsp-id*] [**detail**] [**p2p** | *p2p-tid tunnel-id*]{ [**phops**] [**nhops**] [**s2l** *ip-address*] } }
 - **tp-tunnel** *lsp-name* [**clear**]
 - **tp-tunnel** **id** *tunnel-id* [**clear**]
 - **free-tunnel-id** *start-range end-range*
 - **ospf**
 - **ospf3**
 - **abr** [**detail**]
 - **asbr** [**detail**]
 - **bad-packet** *interface-name*
 - **leaked-routes** [**summary** | **detail**]
 - **memory-usage** [**detail**]
 - **request-list** [**neighbor** *ip-address*] [**detail**]
 - **request-list** **virtual-neighbor** *ip-address area-id area-id* [**detail**]
 - **retransmission-list** [**neighbor** *ip-address*] [**detail**]
 - **retransmission-list** **virtual-neighbor** *ip-address area-id area-id* [**detail**]
 - **route-summary**
 - **route-table** [**type**] [**detail**]
 - **pim**
 - **iom-failures** [**detail**]
 - **rsvp**
 - **psb** [**endpoint** *endpoint-address*] [**sender** *sender-address*] [**tunnelid** *tunnel-id*] [**lspid** *lsp-id*]
 - **rsb** [**endpoint** *endpoint-address*] [**sender** *sender-address*] [**tunnelid** *tunnel-id*] [**lspid** *lsp-id*]
 - **tcsb** [**endpoint** *endpoint-address*] [**sender** *sender-address*] [**tunnelid** *tunnel-id*] [**lspid** *lsp-id*]

- **static-route** **ldp-sync-status**
- **web-rd**
 - **http-client** [*ip-prefix/mask*]
- **service**
 - **base-stats** [**clear**]
 - **iom-stats** [**clear**]
 - **id**
 - **provider-tunnels**
 - **l2pt-diags**
 - **l2pt-diags** **clear**
 - **l2pt-diags** **detail**
 - **mc-endpoint** *mc-ep-id*
 - **radius-discovery** [**svc-id** *service-id*]
 - **vpls-fdb-stats** [**clear**]
 - **vpls-mfib-stats** [**clear**]
- **system-resources** *slot-number*

Tools Perform Commands

- tools**
 - **perform**
 - **aps**
 - **clear** *aps-id* {**protect** | **working**}
 - **exercise** *aps-id* {**protect** | **working**}
 - **force** *aps-id* {**protect** | **working**}
 - **lockout** *aps-id*
 - **request** *aps-id* {**protect** | **working**}
 - **cflowd**
 - **manual-export**
 - **manual-export**
 - **action**
 - **stop** [*action-name*] [**owner** *action-owner*] [**all**]
 - **tod**
 - **re-evaluate**
 - **customer** *customer-id* [**site** *customer-site-name*]
 - **filter** *filter-type* [*filter-id*]
 - **service id** *service-id* [**sap** *sap-id*]
 - **tod-suite** *tod-suite-name*
 - **lag**
 - **clear-force** **all-mc**
 - **clear-force** **lag-id** *lag-id* [**sub-group** *sub-group-id*]
 - **clear-force** **peer-mc** *ip-address*
 - **force** **all-mc** {**active** | **standby**}
 - **force** **lag-id** *lag-id* [**sub-group** *sub-group-id*] {**active** | **standby**}
 - **force** **peer-mc** *peer-ip-address* {**active** | **standby**}
 - **log**
 - **test-event**
 - **persistence**
 - **downgrade** **target-version** *target* [**reboot**]
 - **redundancy**
 - [**no**] **forced-single-sfm-overload**
 - **issu-post-process**
 - **multi-chassis**
 - **mc-ipsec**
 - **force-switchover** **tunnel-group** *local-group-id* [**now**] [**to** {**master**|**standby**}]
 - **sync-database-reconcile** [**peer** *ip-address*] [**port** *port-id*|*lag-id*] [**sync-tag** *sync-tag*] [**application** *application*]
 - **router** [*router-instance*]
 - **consistency**
 - **isis**
 - **ldp-sync-exit**
 - **run-manual-spf**
 - **mcac**
 - **recalc** **policy** *policy-name* [**bundle** *bundle-name*] **protocol** {**igmp**|**pim**} **interface** *interface-name*
 - **l2tp**
 - **group** *tunnel-group-name*
 - [**no**] **drain**
 - **stop**
 - **tunnel** *tunnel-name*
 - [**no**] **drain**

```

— start
— stop
— peer ip-address [udp-port port]
— [no] drain
— sessions stop connection-id
— tunnel connection-id
— [no] drain
— stop
— mpls
— adjust-autobandwidth [lsp lsp-name [force [bandwidth mbps]]]
— cspf to ip-addr [from ip-addr] [bandwidth bandwidth] [include-bitmap
bitmap] [exclude-bitmap bitmap] [hop-limit limit] [exclude-address
excl-addr [excl-addr...(up to 8 max)]] [use-te-metric] [strict-srlg] [srlg-
group grp-id...(up to 8 max)] [exclude-node excl-node-id [excl-node-id
...(up to 8 max)]] [skip-interface interface-name] [ds-class-type class-
type] [cspf-reqtype req-type] [least-fill-min-thd thd] [setup-priority val]
[hold-priority val]
— resignal lsp lsp-name path path-name delay minutes
— resignal {p2mp-lsp p2mp-lsp-name p2mp-instance p2mp-instance-name
| p2mp-delay p2mp-minutes}
— trap-suppress number-of-traps time-interval
— tp-tunnel
— clear {lsp-name | id tunnel-id}
— force {lsp-name | id tunnel-id}
— manual {lsp-name | id tunnel-id}
— lockout {lsp-name | id tunnel-id}
— ospf [ospf-instance]
— ldp-sync-exit
— refresh-lsas [lsa-type] [area-id]
— run-manual-spf externals-only
— ospf3 [ospf-instance]
— refresh-lsas [lsa-type] [area-id]
— run-manual-spf externals-only
— security
— authentication-server-check server-address ip-address [port port] { {user-name
DHCP client user name password password } | attr-from-file file-url } secret key
[source-address ip-address] [timeout seconds] [router router-instance | service-
name service-name]
— service
— egress-multicast-group group-name
— force-optimize
— eval-pw-template policy-id [allow-service-impact]
— id service-id
— endpoint endpoint-name
— force-switchover sdp-id:vc-id
— no force-switchover
— force-switchover spoke-sdp-fec [1..4294967295]
— eval-pw-template policy-id [allow-service-impact]
— mcac sap sap-id recalc policy policy-name [bundle bundle-name]
— mcac sdp sdp-id:vc-id recalc policy policy-name [bundle bundle-name]
— pw-routing
— spoke-sdp-fec-release global-id[:prefix[:ac-id]]
tools
— perform

```

- **subscriber-mgmt**
 - **edit-lease-state** **sap** *sap-id* **ip** *ip-address* [**subscriber** *sub-ident-string*] [**sub-profile-string** *sub-profile-string*] [**sla-profile-string** *sla-profile-string*]
 - **edit-lease-state** **svc-id** *service-id* **ip** *ip-address* [**subscriber** *sub-ident-string*] [**sub-profile-string** *sub-profile-string*] [**sla-profile-string** *sla-profile-string*]
 - **eval-lease-state** [**svc-id** *service-id*] [**sap** *sap-id*] [**subscriber** *sub-ident-string*] [**ip** *ip-address*]
 - **forcerenew** **svc-id** *service-id* {**ip** *ip-address[/mask]>*|**mac** *ieee-address*}
 - **forcerenew** {**interface** *interface-name* | **sap** *sap-id*|**sdp** *sdp-id:vc-id*} [**ip** *ip-address[/mask]* |**mac** *ieee-address*]
 - **re-ident-sub** *old-sub-ident-string* **to** *new-sub-ident-string*
 - **remap-lease-state** **old-mac** *ieee-address* **mac** *ieee-address*
 - **remap-lease-state** **sap** *sap-id* [**mac** *ieee-address*]