PBB Command Reference

Command Hierarchies

Global Commands

config
— **service**
— [**no**] **vpls** *service-id* [**customer** *customer-id*] [**vpn** *vpn-id*] [**m-vpls**] [**b-vpls|i-vpls**] [**create**]
— [**no**] **spb** *instance* [**fid** *value*] [**create**]
— [**no**] **shutdown**
— **level** *level-number*
— **bridge-priority** *value*
— **ect-algorithm** *name* **fid-range** *fid-range*
— **forwarding-tree-topology**[**st|spf**]
— **lsp-lifetime** *seconds*
— **no lsp-lifetime**
— **lsp-wait** *lsp-wait* [*lsp-initial-wait* [*lsp-second-wait*]]
— **overload** [**timeout** *seconds*]
— **no overload**
— **overload-on-boot** [**timeout** *seconds*]
— **no overload-on-boot**
— [**no**] **spf-wait** *spf-wait* [*spf-initial-wait* [*spf-second-wait*]]
— **spbm-control-vpls** *mgmt vpls svc id* **fid** *val*
— **no spbm-control-vpls**
— **mrp**
— [**no**] **attribute-table-high-wmark** *high-water-mark*
— [**no**] **attribute-table-low-wmark** *low-water-mark*
— [**no**] **attribute-table-size** *max-attributes*
— **flood-time** *flood-time*
— **no flood-time**
— [**no**] **shutdown**

config
— **service**
— **pbb**
— **mac-name** *name ieee-address*
— **no mac-name**

— **source-bmac** *ieee-address*
— **no source-bmac**
    — **backbone-smac** *ieee-address*
    — **no backbone-smac**

config
  — **service**
    — [**no**] **vpls** *service-id* [**customer** *customer-id*] [**b-vpls**] [**create**]
      — **pbb**
        — **backbone-vpls** *service-id*[:*isid*]
        — **no backbone-vpls**
        — [**no**] **force-qtag-forwarding**
        — **source-bmac** *ieee-address*
        — **no source-bmac**
        — [**no**] **use-sap-bmac**
        — **mac-notification**
          — [**no**] **count** **value**
          — [**no**] **interval** **value**
          — **renotify** **value**
          — **no renotify**

config
  — **service**
    — [**no**] **vpls** *service-id* [**customer** *customer-id*] [**i-vpls**] [**create**]
      — **pbb**
        — **backbone-vpls** *service-id* [**isid** *isid*]
        — **no backbone-vpls**
          — **igmp-snooping**
            — [**no**] **mrouter-dest** *mac-name*
          — **mld-snooping**
            — [**no**] **mrouter-dest** *mac-name*
          — [**no**] **sap** *sap-id*
            — **igmp-snooping**
              — [**no**] **mrouter-port**
            — **mld-snooping**
              — [**no**] **mrouter-port**
          — [**no**] **sdp** *sdp-id:vc-id*
            — **igmp-snooping**
              — [**no**] **mrouter-port**
            — **mld-snooping**
              — [**no**] **mrouter-port**
          — [**no**] **stp**
        — [**no**] **force-qtag-forwarding**
        — [**no**] **send-bvpls-flush** {[**all-from-me**] | [**all-but-mine**]}

config
  — **service**
    — *service-id* [**customer** *customer-id*] [**create**] [**vpn** *vpn-id*] [**vc-switching**]
    — **no** *service-id*
      — **pbb**
        — [**no**] **force-qtag-forwarding**

SAP Commands

```
config
    — service
        — [no] vpls service-id [customer customer-id] [vpn vpn-id] [mvpls] [b-vpls|i-vpls] [create]
            — sap sap-id [split-horizon-group group-name] [create] [capture-sap]
            — no sap sap-id
                — mrp
                    — [no] join-time value
                    — [no] leave-all-time value
                    — [no] leave-time value
                    — [no] mrp-policy policy-name
                    — [no] periodic-time value
                    — [no] periodic-timer
                — [no] spb create
                    — [no] shutdown
                    — lsp-pacing-interval milliseconds
                    — no lsp-pacing-interval
                    — retransmit-interval seconds
                    — no retransmit-interval
                    — metric value
                    — no metric
                            — hello-interval seconds
                            — no hello-interval
                            — hello-multiplier multiplier
                            — no hello-multiplier
```

Mesh SDP Commands

```
config
    — service
        — [no] vpls service-id [customer customer-id] [vpn vpn-id] [mvpls] [b-vpls|i-vpls] [create]
            — mesh-sdp sdp-id[:vc-id] [vc-type {ether | vlan}]
            — no mesh-sdp sdp-id[:vc-id]
                — mrp
                    — [no] join-time value
                    — [no] leave-all-time value
                    — [no] leave-time value
                    — [no] mrp-policy policy-name
                    — [no] periodic-time value
                    — [no] periodic-timer
```

Spoke SDP Commands

```
config
    — service
        — [no] vpls service-id [customer customer-id] [vpn vpn-id] [mvpls] [b-vpls|i-vpls] [create]
            — spoke-sdp sdp-id[:vc-id] [vc-type {ether | vlan}] [split-horizon-group group-name]
            — no spoke-sdp sdp-id[:vc-id]
                — mrp
                    — [no] join-time value
                    — [no] leave-all-time value
```

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— [**no**] **leave-time** *value*
— [**no**] **mrp-policy** *policy-name*
— [**no**] **periodic-time** *value*
— [**no**] **periodic-timer**
— [**no**] **spb create**
— [**no**] **shutdown**
— **lsp-pacing-interval** *milliseconds*
— **no lsp-pacing-interval**
— **retransmit-interval** *seconds*
— **no retransmit-interval**
— **metric** *value*
— **no metric**
— **hello-interval***seconds*
— **no hello-interval**
— **hello-multiplier** *multiplier*
— **no hello-multiplier**

BGP-MH for I-VPLS Commands

Note: Refer to the *Layer 2 Services Guide* for information about BGP-MH for I-VPLS commands.

config
  — **service**
    — **vpls** *service-id* [**customer** *customer-id*] [**vpn** *vpn-id*] [**m-vpls**] [**b-vpls** | **i-vpls**] [**create**]
    — **no vpls** *service-id*
      — **site** *name* [**create**]
      — **no site** *name*
        — **boot-timer** *seconds*
        — **no boot-timer**
        — **failed-threshold** [1..1000]
        — **failed-threshold all**
        — [**no**] **mesh-sdp-binding**
        — **monitor-oper-group** *name*
        — **no monitor-oper-group**
        — **sap** *sap-id*
        — **no sap**
        — [**no**] **shutdown**
        — **site-activation-timer** *seconds*
        — **no site-activation-timer**
        — **site-id** *value*
        — **no site-id**
        — **split-horizon-group** *group-name*
        — **no split-horizon-group**
        — **spoke-sdp** *sdp-id:vc-id*
        — **no spoke-sdp**

Show Commands

show
— **eth-cfm**
  — **association** [*ma-index*] [**detail**]
  — **cfm-stack-table**
  — **cfm-stack-table** **port [{all-ports | all-sdps | all-virtuals}][level 0..7][direction up|down]**
  — **cfm-stack-table** *port-id* **[vlan** *qtag*[.*qtag*]] **[level** 0..7] **[direction up|down]**
  — **cfm-stack-table** **sdp** *sdp-id*[.*vc-id*] **[level** 0..7][**direction up|down**]
  — **cfm-stack-table** **virtual** *service-id* **[level** 0..7**]**
  — **cfm-stack-table** **facility** [{**all-ports|all-lags|all-lag-ports|all-tunnel-meps| all-router-interfaces}][level** 0..7] **[direction up|down]**
  — **cfm-stack-table** **facility collect-lmm-stats**
  — **cfm-stack-table** **facility lag** *id* **[tunnel** 1..4094] **[level 0..7] [direction up|down]**
  — **cfm-stack-table** **facility port** *id* **[level** 0..7] **[direction up|down]**
  — **cfm-stack-table** **facility router-interface** *ip-int-name* **[level** 0..7] **[direction up|down]**
  — **domain** [*md-index*] [**association** *ma-index* | **all-associations** [**detail**]]
  — **mep** *mep-id* **domain** *md-index* **association** *ma-index* [**loopback**] [**linktrace**]
— **service**
  — **id** *service-id*
    — **i-vpls**
    — **mrp-policy** **mac** [*ieee-address*]
    — **mrp**
    — **spb**
      — **adjacency** [**detail**]
      — **base**
      — **database**
      — **fate-sharing**
      — **fid** [*fid*] **fate-sharing**
      — **fid** [*fid*] **user-service**
      — **fid** [*fid*] **fdb**
      — **fid** [*fid*] **mfib** [**group-mac** *<ieee-address>*]
      — **fid** [*fid*] **mfib** [**isid** *<isid>*]
      — **hostname**
      — **interface**
      — **mfib** [**detail**]
      — **routes**
      — **spf**
      — **spf-log**
      — **status**
  — **mrp-policy** [*mrp-policy*]
  — **mrp-policy** *mrp-policy* [**association**]
  — **mrp-policy** *mrp-policy* [**entry** *entry-id*]
  — **pbb**
    — **base**
    — **mac-name** [**detail**]

Clear Commands

clear
— **service**
  — **statistics**
    — **id** *service-id*
      — **counters**

— **mesh-sdp** *sdp-id[:vc-id]* {**all** | **counters** | **stp** | **mrp**}
— **mrp**
— **spoke-sdp** *sdp-id[:vc-id]* {**all** | **counters** | **stp** | **mrp**}
— **stp**
— **spb**
  — **adjacency** [**detail**]
  — **database**
  — **spf-log**
  — **status**
— **sap** *sap-id* {**all** | **counters** | **stp** | **l2pt** | **mrp**}

Debug Commands

debug
— **service**
  — **id** *service-id*
    — [**no**] **mrp**
      — **all-events**
      — [**no**] **applicant-sm**
      — [**no**] **leave-all-sm**
      — [**no**] **mmrp-mac** *ieee-address*
      — [**no**] **mrpdu**
      — [**no**] **periodic-sm**
      — [**no**] **registrant-sm**
      — [**no**] **sap** *sap-id*
      — [**no**] **sdp** *sdp-id:vc-id*
      — [**no**] **spb**
        — [**no**] **adjacency** {**sap** *sap-id* | **spoke-sdp** *sdp-id:vc-id* | *nbr-system-id*}
        — [**no**] **interface** { **sap** <sap-id> | **spoke-sdp** <sdp-id:vc-id>}
        — [**no**] **l2db**
        — [**no**]**lsdb** {*system-id* | *lsp-id* }
        — [**no**] **packet** { **ptop-hello l1-hello l1-psnp l1-csnp l1-lsp**} **detail**
        — [**no**] **spf** { *system-id* }