

Triple Play Multicast Command Reference

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MCAST Management Commands

```

config
  — mcast-management
    — bandwidth-policy policy-name [create]
    — no bandwidth-policy policy-name
      — admin-bw-threshold kilo-bits-per-second
      — no admin-bw-threshold
      — ancillary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
        — description description
        — no description
      — falling-percent-reset percent-of-highest
      — no falling-percent-reset
      — mcast-pool percent-of-total percent-of-buffers resv-cbs percent-of-pool slope-policy policy-name
      — no mcast-pool
    — chassis-level
      — [no] mmrp-impm-override
      — [no] per-mcast-plane-capacity
        — mcast-capacity primary-percentage secondary secondary-percentage
        — no mcast-capacity
        — redundant-mcast-capacity primary-percentage secondary secondary-percentage

```

- **no redundant-mcast-capacity**
- **total-capacity** *capacity*
- **no total-capacity**
- **[no] round-robin-inactive-records**
- **mcast-reporting-dest** *mcast-reporting-dest-name* [**create**]
- **no mcast-reporting-dest** *mcast-reporting-dest-name*
 - **description** *description*
 - **no description**
 - **dest-ip-address** *ip-address*
 - **no dest-ip-address**
 - **max-tx-delay** *delay*
 - **no max-tx-delay**
 - **udp-dst-port** *port*
 - **no udp-dst-port**
 - **[no] shutdown**

Multicast Info Policy Bundle Commands

```

config
— mcast-management
  — multicast-info-policy policy-name [create]
  — no multicast-info-policy policy-name
    — bundle bundle-name [create]
    — no bundle bundle-name
      — admin-bw kbps
      — no admin-bw
      — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
      — no bw-activity
      — channel ip-address [ip-address] [create]
      — no channel ip-address [ip-address]
        — admin-bw kbps
        — no admin-bw
        — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
        — no bw-activity
        — explicit-sf-path {primary | secondary | ancillary}
        — no explicit-sf-path
        — keepalive-override keepalive-timer
        — no keepalive-override
        — preference preference-level
        — no preference
        — primary-tunnel-interface {rsvp-p2mp | ldp-p2mp p2mp-id} lsp-name sender ip-address
        — no primary-tunnel-interface
        — source-override ip-address [create]
        — no source-override ip-address
          — admin-bw kbps
          — no admin-bw
          — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
          — no bw-activity
          — cac-type {mandatory | optional}
          — no cac-type
          — explicit-sf-path {primary | secondary | ancillary}
          — no explicit-sf-path
          — keepalive-override keepalive-timer
          — no keepalive-override
          — preference preference-level
          — no preference
          — primary-tunnel-interface {rsvp-p2mp | ldp-p2mp p2mp-id} lsp-name sender ip-address
          — no primary-tunnel-interface
        — cong-priority-threshold preference-level
        — no cong-priority-threshold
        — description description
        — no description
        — ecmp-opt-threshold preference-level
        — no ecmp-opt-threshold
        — explicit-sf-path {primary | secondary | ancillary}
        — no explicit-sf-path

```

- **keepalive-override** *keepalive-timer*
- **no keepalive-override**
- **preference** *preference-level*
- **no preference**
- **primary-tunnel-interface** {*rsvp-p2mp* | *ldp-p2mp* *p2mp-id*} *lsp-name*
sender ip-address
- **no primary-tunnel-interface**
- **description** *description-string*
- **no description**

Refer to the 7750 SR OS Interface Configuration Guide for command descriptions.

config

- **card**
 - **fp** [*fp-number*]
 - **ingress**
 - **multicast-path-management**
 - **bandwidth-policy** *policy-name*
 - **no bandwidth-policy**
 - **[no] shutdown**
 - **mda**
 - **ingress**
 - **multicast-path-management**
 - **ancillary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - **bandwidth-policy** *policy-name*
 - **no bandwidth-policy**
 - **primary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - **secondary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - **[no] shutdown**

Triple Play Multicast Service Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — igmp-snooping
        — mvr
          — description description-string
          — no description
          — group-policy policy-name
          — no group-policy
          — [no] shutdown
        — query-interval seconds
        — no query-interval
        — query-src-ip ipv6-address
        — no query-src-ip
        — report-src-ip ipv6-address
        — no report-src-ip
        — robust-count robust-count
        — no robust-count
        — [no] shutdown
      — fdb-table-high-wmark high-water-mark
      — no fdb-table-high-wmark
      — fdb-table-low-wmark low-water-mark
      — no fdb-table-low-wmark
      — fdb-table-size table-size
      — no fdb-table-size
      — mld-snooping
        — mvr
          — description description-string
          — no description
          — group-policy policy-name
          — no group-policy
          — [no] shutdown
        — query-interval seconds
        — no query-interval
        — query-src-ip ipv6-address
        — no query-src-ip
        — report-src-ip ipv6-address
        — no report-src-ip
        — robust-count robust-count
        — no robust-count
        — [no] shutdown
      — multicast-info-policy policy-name
      — no multicast-info-policy
      — sap sap-id [split-horizon-group group-name]
      — no sap sap-id
        — igmp-snooping
          — [no] fast-leave
          — import policy-name
          — no import
          — last-member-query-interval interval
          — no last-member-query-interval
          — max-num-groups max-num-groups
          — no max-num-groups

```

- [no] **mrouter-port**
- **mvr**
 - **from-vpls** *vpls-id*
 - **no from-vpls**
 - **to-sap** *sap-id*
 - **no to-sap**
- **query-interval** *interval*
- **no query-interval**
- **query-response-interval** *interval*
- **no query-response-interval**
- **robust-count** *count*
- **no robust-count**
- [no] **send-queries**
- **static**
 - [no] **group** *group-address*
 - [no] **source** *ip-addr*
 - [no] **starg**
- **mesh-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan** | **vpls**}]
- **no mesh-sdp** *sdp-id[:vc-id]*
 - **igmp-snooping**
 - [no] **fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**
 - **mcac**
 - **policy** *policy-name*
 - **no policy**
 - **unconstrained-bw** *bandwidth* **mandatory-bw** *mandatory-bw*
 - **no unconstrained-bw**
 - **query-interval** *interval*
 - **no query-interval**
 - **query-response-interval** *interval*
 - **no query-response-interval**
 - **robust-count** *count*
 - **no robust-count**
 - [no] **send-queries**
 - **static**
 - [no] **group** *group-address*
 - [no] **source** *ip-addr*
 - [no] **starg**
 - **mld-snooping**
 - [no] **disable-router-alert-check**
 - [no] **fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**
 - **mvr**
 - **fast-leave** *service-id*

- **no fast-leave**
- **to-sap** *sap-id*
- **no to-sap**
- **query-interval** *seconds*
- **no query-interval**
- **query-response-interval** *seconds*
- **no query-response-interval**
- **robust-count** *robust-count*
- **no robust-count**
- **[no] send-queries**
- **spoke-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan** | **vpls**}] [**split-horizon-group** *group-name*]
- **no spoke-sdp** *sdp-id[:vc-id]*
 - **igmp-snooping**
 - **[no] fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**
 - **query-interval** *interval*
 - **no query-interval**
 - **query-response-interval** *interval*
 - **no query-response-interval**
 - **robust-count** *count*
 - **no robust-count**
 - **[no] send-queries**
 - **static**
 - **[no] group** *group-address*
 - **[no] source** *ip-addr*
 - **[no] starg**
 - **mvr**
 - **fast-leave** *service-id*
 - **no fast-leave**
 - **to-sap** *sap-id*
 - **no to-sap**
 - **query-interval** *seconds*
 - **no query-interval**
 - **query-response-interval** *seconds*
 - **no query-response-interval**
 - **robust-count** *robust-count*
 - **no robust-count**
 - **[no] send-queries**

Ingress Multicast Path Management Commands

```

config
  — mcast-management
    — bandwidth-policy policy-name [create]
    — no bandwidth-policy policy-name
      — admin-bw-threshold kilo-bits-per-second
      — no admin-bw-threshold
      — ancillary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — description description-string
      — no description
      — falling-percent-reset percent-of-highest
      — no falling-percent-reset
      — mcast-pool percent-of-total percent-of-buffers resv-cbs percent-of-pool slope-policy policy-name
      — no mcast-pool
      — primary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — secondary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — t2-paths
        — primary-path
          — queue-parameters
            — cbs percentage
            — no cbs
            — hi-priority-only percent-of-mbs
            — no hi-priority-only
            — mbs percentage
            — no mbs
          — secondary-path

```


- **number-paths** *number-of-paths* [**dual-sfm** *number-of-paths*]
- **queue-parameters**
 - **cbs** *percentage*
 - **no cbs**
 - **hi-priority-only** *percent-of-mbs*
 - **no hi-priority-only**
 - **mbs** *percentage*
 - **no mbs**

config

- **router**
 - **multicast-info-policy** *policy-name*
 - **no multicast-info-policy**
 - **pim**
 - **[no] mc-ecmp-balance**
 - **mc-ecmp-balance-hold** *minute*
 - **no mc-ecmp-balance-hold**

tools

- **perform**
 - **router**
 - **pim**
 - **mc-ecmp-rebalance** [*ecmp-opt-threshold*]

Multicast Redirection

```
config
  — router/service VPRN
    — policy-options
      — policy-statement
        — entry
          — action {accept|next-entry|next-policy|reject}
          — no action
      — igmp
        — interface port:tags
        — mld
          — interface port:tags
config
  — service
    — ies service-id
    — vprn service-id
      — interface port:tags
```

Show Commands

```

show
  — service
    — id service-id
      — host-tracking
        — saps [detail|statistics|summary|mcast-reporting-statistics]
        — saps sap sap-id [host ip-address] [detail|statistics|summary|mcast-reporting-statistics]
      — igmp-snooping
        — all
        — mrouters [detail]
        — mvr
        — port-db sap sap-id [detail]
        — port-db sap sap-id group grp-address
        — port-db sdp sdp-id:vc-id [detail]
        — port-db sdp sdp-id:vc-id group grp-address
        — proxy-db [detail]
        — proxy-db group grp-address
        — static [sap sap-id | sdp sdp-id:vc-id]
        — static [sap sap-id | sdp sdp-id:vc-id]
      — mfib brief
      — mfib [group grp-address]
      — mfib statistics [group grp-address]
      — mld-snooping
        — all
        — base
        — mrouters [detail]
        — mvr
        — port-db sap sap-id
        — port-db sap sap-id detail
        — port-db sap sap-id group grp-ipv6-address
        — port-db sdp sdp-id:vc-id
        — port-db sdp sdp-id:vc-id detail
        — port-db sdp sdp-id:vc-id group grp-ipv6-address
        — proxy-db [detail]
        — proxy-db group grp-ipv6-address
        — querier
        — static [sap sap-id | sdp sdp-id:vc-id]
        — statistics [sap sap-id | sdp sdp-id:vc-id]

show
  — router
    — pim
      — mc-ecmp-balance [detail]

show
  — mcast-management
    — bandwidth-policy [policy-name] [detail]
    — channel [router router-instance | vpls service-id] [mda slot[/mda]] [group ip-address [source ip-address]] [path path-type] [detail]
    — mcast-reporting-dest [mcast-reporting-dest-name]
    — mda [slot[/mda]] [path path-type]

show

```

Show Commands

- router
 - igmp
 - **group** [*grp-ip-address*]
 - **group summary**
 - **group-interface** [*fwd-service service-id*] [*ip-int-name*] [**detail**]
 - **hosts** [**group** *grp-address*] [**detail**] [*fwd-service service-id*] [**grp-interface** *ip-int-name*]
 - **hosts** [**host** *ip-address*] [**group** *grp-address*] [**detail**]
 - **hosts summary**
 - **interface** [*ip-int-name*|*ip-address*] [**group**] [*grp-ip-address*] [**detail**]
 - **mcast-reporting-statistics** [*host*]
 - mld
 - **interface port:tags**
 - **ssm-translate** [*interface-name*]
 - **static** [*ip-int-name*|*ip-addr*]
 - **statistics** [*ip-int-name*|*ip-address*]
 - **statistics host** [*ip-address*]
 - **status**
 - **tunnel-interface**

Clear Commands

- clear
 - service
 - id
 - **igmp-snooping**
 - **port-db sap** *sap-id* [**group** *grp-address* [**source** *ip-address*]]
 - **port-db sdp** *sdp-id:vc-id* [**group** *grp-address* [**source** *ip-address*]]
 - **querier**
 - **querier** [**all** | **sap** *sap-id* | **sdp** *sdp-id:vc-id*]
 - **mfib**
 - **statistics** [**all** | **group** *grp-address*]
 - **mld-snooping**
 - **port-db sap** *sap-id* [**group** *grp-ipv6-address*]
 - **port-db sap** *sap-id* **group** *grp-ipv6-address* **source** *src-ipv6-address*
 - **port-db sdp** *sdp-id:vc-id* [**group** *grp-ipv6-address*]
 - **port-db sdp** *sdp-id:vc-id* **group** *grp-ipv6-address* **source** *src-ipv6-address*
 - **querier**
 - **statistics all**
 - **statistics sap** *sap-id*
 - **statistics sdp** *sdp-id:vc-id*

Debug Commands

- debug
 - mcast-management
 - [no] **mcast-reporting-dest** [*dest-name*]
 - [no] **igmp** [**host** *ip-address*] [**group** *grp-address*]
 - service
 - id *service-id*
 - **mld-snooping**
 - **detail-level** {*low*|*medium*|*high*}

- **no detail-level**
- [**no**] **mac** *ieee-address*
- **mode** {**dropped-only**|**ingr-and-dropped**|**egr-ingr-and-dropped**}
- **no mode**
- [**no**] **sap** *sap-id*
- [**no**] **sdp** *sdp-id:vc-id*

Show Commands