
Triple Play Services Command Reference

Configuration Commands

Note: The command trees in this section are limited to those commands specific to Triple Play services. For the full command trees for a specific service type refer to the appropriate section in the 7750 SR OS Services Guide.

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Generic VPLS Triple Play Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — description description-string
      — no description
      — [no] shutdown
      — [no] disable-aging
      — [no] disable-learning
      — [no] discard-unknown
      — [no] fdb-table-high-wmark
      — [no] fdb-table-low-wmark
      — fdb-table-size table-size
      — no fdb-table-size [table-size]
      — 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 ip-address
          — no query-src-ip
          — report-src-ip ip-address
          — no report-src-ip

```

- **robust-count** *robust-count*
- **no robust-count**
- **[no] shutdown**
- **local-age** *aging-timer*
- **no local-age**
- **mac-protect**
 - **[no] mac** *ieee-address*
- **mac-subnet-length** *subnet-length*
- **no mac-subnet-length**
- **mcr-default-gtw**
 - **ip** *address*
 - **no ip**
 - **mac** *ieee-address*
 - **no mac**
- **remote-age** *seconds*
- **no remote-age**
- **service-mtu** *octets*
- **no service-mtu**
- **service-name** *service-name*
- **no service-name**
- **[no] split-horizon-group** [*group-name*] [**residential-group**]
 - **description** *description-string*
 - **no description**
- **sap** *sap-id* [**split-horizon-group** *group-name*]
- **no sap** *sap-id*
 - **accounting-policy** *acct-policy-id*
 - **no accounting-policy** [*acct-policy-id*]
 - **arp-host**
 - **host-limit** *max-num-hosts*
 - **no host-limit**
 - **min-auth-interval** *min-auth-interval*
 - **no min-auth-interval**
 - **[no] shutdown**
 - **calling-station-id** *calling-station-id*
 - **no min-auth-interval**
 - **description** *description-string*
 - **no description**
 - **[no] collect-stats**
 - **[no] disable-aging**
 - **[no] disable-learning**
 - **egress**
 - **agg-rate-limit** *agg-rate*
 - **no agg-rate-limit** *agg-r*
 - **filter ip** *ip-filter-id*
 - **filter ipv6** *ipv6-filter-id*
 - **filter mac** *mac-filter-id*
 - **no filter**
 - **no filter** [**ip** *ip-filter-id*] [**mac** *mac-filter-id*] [**ipv6** *ipv6-filter-id*]
 - **qos** *policy-id*
 - **no qos**
 - **queue-override**
 - **[no] queue** *queue-id*
 - **adaptation-rule** [**pir** {*max*|*min*|*closest*}] [**cir** {*max* | *min* | *closest*}]
 - **no adaptation-rule**
 - **avg-frame-overhead** *percentage*
 - **no avg-frame-overhead**

- **cbs** *size-in-kbytes*
- **no cbs**
- **high-prio-only** *percent*
- **no high-prio-only**
- **mbs** *size-in-kbytes*
- **no mbs**
- **rate** *pir-rate* [**cir** *cir-rate*]
- **no rate**
- **[no] scheduler-override**
 - **[no] scheduler** *scheduler-name*
 - **rate** *pir-rate* [**cir** *cir-rate*]
 - **no rate**
- **scheduler-policy** *scheduler-policy-name*
- **no scheduler-policy**
- **host** {[**ip** *ip-address*] [**mac** *mac-address*]} [**subscriber-sap-id** | **subscriber** *sub-ident-string*] [**sub-profile** *sub-profile-name*] [**sla-profile** *sla-profile-name*] [**ancp-string** *ancp-string*] [**inter-dest-id** *intermediate-destination-id*]
- **no host** {[**ip** *ip-address*] [**mac** *mac-address*]}
- **no host all**
- **ingress**
 - **filter ip** *ip-filter-id*
 - **filter ipv6** *ipv6-filter-id*
 - **filter mac** *mac-filter-id*
 - **no filter**
 - **no filter** [**ip** *ip-filter-id*] [**mac** *mac-filter-id*] [**ipv6** *ipv6-filter-id*]
 - **qos** *policy-id*
 - **no qos**
 - **queue-override**
 - **[no] queue** *queue-id*
 - **adaptation-rule** [**pir** {**max**|**min**|**closest**}] [**cir** {**max** | **min** | **closest**}]
 - **no adaptation-rule**
 - **cbs** *size-in-kbytes*
 - **no cbs**
 - **high-prio-only** *percent*
 - **no high-prio-only**
 - **mbs** *size-in-kbytes*
 - **no mbs**
 - **rate** *pir-rate* [**cir** *cir-rate*]
 - **no rate**
 - **[no] scheduler-override**
 - **[no] scheduler** *scheduler-name*
 - **rate** *pir-rate* [**cir** *cir-rate*]
 - **no rate**
 - **scheduler-policy** *scheduler-policy-name*
 - **no scheduler-policy**
 - **scheduler-policy** *scheduler-policy-name*
 - **no scheduler-policy**
- **max-nbr-mac-addr** *table-size*
- **no max-nbr-mac-addr**
- **multi-service-site** *customer-site-name*
- **no multi-service-site**
- **static-host ip** *ip/did-address* [**mac** *ieee-address*] [**create**]
- **static-host mac** *ieee-address* [**create**]

- **no static-host** [**ip** *ip-address*] **mac** *ieee-address*
- **no static-host** **all** [**force**]
- **no static-host ip** *ip-address*
 - **anep-string** *anep-string*
 - **no anep-string**
 - **app-profile** *app-profile-name*
 - **no app-profile**
 - **inter-dest-id** *intermediate-destination-id*
 - **no inter-dest-id**
 - [**no**] **shutdown**
 - **sla-profile** *sla-profile-name*
 - **no sla-profile**
 - **sub-profile** *sub-profile-name*
 - **no sub-profile**
 - **subscriber** *sub-ident*
 - **no subscriber**
 - [**no**] **subscriber-sap-id**
- [**no**] **shutdown**
- [**no**] **static-mac**
- **mesh-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan**}]
- **no mesh-sdp** *sdp-id[:vc-id]*
 - **accounting-policy** *acct-policy-id*
 - **no accounting-policy** [*acct-policy-id*]
 - [**no**] **collect-stats**
 - **egress**
 - **filter** {**ip** *ip-filter-name* | **mac** *mac-filter-id*}
 - **no filter**
 - **vc-label** *egress-vc-label*
 - **no vc-label** [*egress-vc-label*]
 - **ingress**
 - **filter** {**ip** *ip-filter-name* | **mac** *mac-filter-id*}
 - **no filter**
 - **vc-label** *ingress-vc-label*
 - **no vc-label** [*ingress-vc-label*]
- [**no**] **shutdown**
- [**no**] **static-mac**
- **vlan-vc-tag** *0..4094*
- **no vlan-vc-tag** [*0..4094*]
- **spoke-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan**}] [**split-horizon-group** *group-name*]
- **no spoke-sdp** *sdp-id[:vc-id]*
 - **accounting-policy** *acct-policy-id*
 - **no accounting-policy** [*acct-policy-id*]
 - [**no**] **block-on-mesh-failure**
 - [**no**] **collect-stats**
 - **egress**
 - **filter** {**ip** *ip-filter-name* | **mac** *mac-filter-id*}
 - **no filter**
 - **vc-label** *egress-vc-label*
 - **no vc-label** [*egress-vc-label*]
 - **ingress**
 - **filter** {**ip** *ip-filter-name* | **mac** *mac-filter-id*}
 - **no filter**
 - **vc-label** *ingress-vc-label*
 - **no vc-label** [*ingress-vc-label*]
- **max-nbr-mac-addr** *table-size*
- **no max-nbr-mac-addr**

- [no] **shutdown**
- [no] **static-mac**
- **vlan-vc-tag** *0..4094*
- **no vlan-vc-tag** [*0..4094*]

Generic IES Triple Play Commands

```

config
  — service
    — ies service-id [customer customer-id] [vpn vpn-id]
      — description description-string
      — no description
      — service-name service-name
      — no service-name
      — [no] shutdown
      — [no] interface ip-int-name
        — address ip-address/mask [netmask] [broadcast {all-ones | host-ones}]
        — no address
        — [no] allow-directed-broadcast
        — description description-string
        — no description
        — [no] loopback
        — mac ieee-address
        — no mac
        — [no] sap sap-id
          — accounting-policy acct-policy-id
          — no accounting-policy [acct-policy-id]
          — anti-spoof [ip | mac | ip-mac]
          — no anti-spoof
          — [no] collect-stats
          — description description-string
          — no description
          — egress
            — agg-rate-limit agg-rate
            — no agg-rate-limit agg-rate
            — filter {ip ip-filter-name | mac mac-filter-id}
            — no filter
            — qos policy-id
            — no qos
            — [no] queue-override
            — [no] queue queue-id
              — adaptation-rule [pir {max|min|closest}]
                [cir {max | min | closest}]
              — no adaptation-rule
              — avg-frame-overhead percentage
              — no avg-frame-overhead
              — cbs size-in-kbytes
              — no cbs
              — high-prio-only percent
              — no high-prio-only
              — mbs size-in-kbytes
              — no mbs
              — rate pir-rate [cir cir-rate]
              — no rate
            — scheduler-policy scheduler-policy-name
            — no scheduler-policy
          — host {[ip ip-address] [mac mac-address]} [subscriber sub-
            idnt-string] [sub-profile sub-profile-name] [sla-profile sla-
            profile-name]
          — no host {[ip ip-address] [mac mac-address]}
          — no host all
          — ingress

```

- **filter** {**ip** *ip-filter-name* | **mac** *mac-filter-id*}
- **no filter**
- **match-qinq-dot1p** {**top** | **bottom**}
- **no match-qinq-dot1p**
- **qos** *policy-id*
- **no qos**
- **scheduler-policy** *scheduler-policy-name*
- **no scheduler-policy**
- **multi-service-site** *customer-site-name*
- **no multi-service-site**
- **static-host ip** *ip/did-address* [**mac** *ieee-address*] [**create**]
- **static-host mac** *ieee-address* [**create**]
- **no static-host** [**ip** *ip-address*] **mac** *ieee-address*
- **no static-host** **all** [**force**]
- **no static-host ip** *ip-address*
 - **ancp-string** *ancp-string*
 - **no ancp-string**
 - **app-profile** *app-profile-name*
 - **no app-profile**
 - **inter-dest-id** *intermediate-destination-id*
 - **no inter-dest-id**
 - **managed-routes**
 - **route** {*ip-prefix/length* | *ip-prefix netmask*} [**create**]
 - **no route** {*ip-prefix/length* | *ip-prefix netmask*}
 - **[no] shutdown**
 - **sla-profile** *sla-profile-name*
 - **no sla-profile**
 - **sub-profile** *sub-profile-name*
 - **no sub-profile**
 - **subscriber** *sub-ident*
 - **no subscriber**
 - **[no] subscriber-sap-id**
- **[no] shutdown**
- **spoke-sdp** *sdp-id:vc-id*
 - **egress**
 - **filter** {**ip** *ip-filter-id*}
 - **no filter**
 - **vc-label** *egress-vc-label*
 - **no vc-label** [*egress-vc-label*]
 - **ingress**
 - **filter** {**ip** *ip-filter-id*}
 - **no filter**
 - **vc-label** *ingress-vc-label*
 - **no vc-label** [*ingress-vc-label*]

Service DHCP and Anti-Spoof Filtering Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — sap sap-id [split-horizon-group group-name]
      — no sap sap-id
        — anti-spoof {ip | mac | ip-mac}
        — no anti-spoof
        — authentication-policy auth-plcy-name
        — no authentication-policy
        — dhcp
          — description description-string
          — no description
          — lease-populate [number-of-entries]
          — no lease-populate
          — [no] option
            — action [dhcp-action]
            — no action
            — [no] circuit-id
            — [no] remote-id
          — [no] shutdown
          — [no] snoop
        — mesh-sdp sdp-id[:vc-id] [vc-type {ether | vlan}]
        — no mesh-sdp sdp-id[:vc-id]
          — dhcp
            — description description-string
            — no description
            — [no] snoop
        — spoke-sdp sdp-id[:vc-id] [vc-type {ether | vlan}] [split-horizon-group group-name]
        — no spoke-sdp sdp-id[:vc-id]
          — dhcp
            — description description-string
            — no description
            — [no] snoop

config
  — service
    — ies service-id [customer customer-id] [vpn vpn-id]
      — [no] interface ip-int-name
        — anti-spoof {ip | mac | ip-mac}
        — no anti-spoof
        — dhcp
          — description description-string
          — no description
          — gi-address ip-address [src-ip-addr]
          — no gi-address
          — lease-populate nbr-of-leases
          — no lease-populate
          — option
            — action {replace | drop | keep}
            — no action
            — circuit-id [ascii-tuple | ifindex]
            — no circuit-id
            — [no] remote-id

```



```

— [no] relay-plain-bootp
— relay-unicast-msg [release-update-src-ip]
— no relay-unicast-msg
— server server1 [server2...(up to 8 max)]
— no server
— [no] shutdown
— [no] trusted

config
— service
— vprn
— [no] interface ip-int-name
— dhcp
— description description-string
— no description
— gi-address ip-address [src-ip-addr]
— no gi-address
— lease-populate [number-of-entries]
— no lease-populate
— [no] option
— action {replace | drop | keep}
— no action
— circuit-id [ascii-tuple | ifindex]
— no circuit-id
— [no] remote-id
— [no] relay-plain-bootp
— relay-unicast-msg [release-update-src-ip]
— no relay-unicast-msg
— server server1 [server2...(up to 8 max)]
— no server
— [no] shutdown
— [no] trusted

```

Triple Play ARP Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — sap sap-id [split-horizon-group group-name]
      — no sap sap-id
        — arp-reply-agent [sub-ident]
        — no arp-reply-agent
    
```

```

config
  — service
    — ies service-id [customer customer-id] [vpn vpn-id]
      — [no] interface ip-int-name
        — [no] arp-populate
        — arp-timeout seconds
        — no arp-timeout
        — [no] local-proxy-arp
        — [no] proxy-arp-policy
        — [no] remote-proxy-arp
        — [no] sap sap-id
    
```

```

config
  — service
    — vprn
      — [no] interface ip-int-name
        — [no] arp-populate
        — arp-timeout [seconds]
        — no arp-timeout
        — [no] local-proxy-arp
        — [no] proxy-arp-policy
        — [no] remote-proxy-arp
        — static-arp ip-address ieee-address
        — no static-arp ip-address [ieee-address]
    
```

Triple Play Multicast Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — igmp-snooping
        — mvr
          — group-policy policy-name
          — [no] shutdown
        — query-interval seconds
        — no query-interval
        — robust-count robust-count
        — no robust-count
        — [no] shutdown
      — mfib-table-high-wmark high-water-mark
      — no mfib-table-high-wmark
      — mfib-table-low-wmark low-water-mark
      — no mfib-table-low-wmark
      — mfib-table-size table-size
      — no mfib-table-size
      — sap sap-id [split-horizon-group group-name]
      — no sap ap-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-address
            — [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**
- **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-address*
 - **[no] starg**
- **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**
 - **[no] mrouter-port**
 - **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-address*
 - **[no] starg**

7750 SR-Only Router IGMP and PIM Command CLI Reference

NOTE: The following commands are listed for informational purposes. The command descriptions are documented in the Multicast Command Reference section of the SR OS *Routing Protocols Guide*.

```

config
  — router
    — [no] igmp
      — [no] interface ip-int-name
        — import policy-name
        — no import
        — max-groups value
        — no max-groups
        — max-grp-sources [1..32000]
        — no max-grp-sources
        — max-sources [1..1000]
        — no max-sources
        — mcac
          — mc-constraints
            — level level-id bw bandwidth
            — no level level-id
            — number-down number-lag-port-down level level-id
            — no number-down number-lag-port-down
            — [no] shutdown
          — policy policy-name
          — no policy
          — unconstrained-bw bandwidth mandatory-bw mandatory-bw
          — no unconstrained-bw
        — [no] shutdown
      — ssm-translate
        — grp-range start end
        — no grp-range start end
        — [no] source ip-address
      — static
        — [no] group grp-ip-address
        — [no] source ip-address
        — [no] starg
      — [no] subnet-check
      — version version
      — no version
      — query-interval seconds
      — no query-interval
      — query-last-member-interval seconds
      — no query-last-member-interval
      — query-response-interval seconds
      — no query-response-interval
      — robust-count robust-count
      — no robust-count
      — ssm-translate
        — [no] grp-range start end
        — [no] source ip-address
      — [no] shutdown
config
  — router
    — [no] pim

```

- **apply-to** {ies | non-ies | all | none}
- **import** {join-policy | register-policy} *policy-name* [*.. policy-name*]
- **no import** {join-policy | register-policy}
- **[no] interface** *ip-int-name*
 - **assert-period** *assert-period*
 - **no assert-period**
 - **[no] bfd-enable**
 - **[no] bsm-check-rtr-alert**
 - **hello-interval** *hello-interval*
 - **no hello-interval**
 - **hello-multiplier** *deci-units*
 - **no hello-multiplier**
 - **[no] improved-assert**
 - **[no] ipv4-multicast-disable**
 - **[no] ipv6-multicast-disable**
 - **max-groups** *value*
 - **no max-groups**
 - **mcac**
 - **mc-constraints**
 - **level** *level-id* **bw** *bandwidth*
 - **no level** *level-id*
 - **number-down** *number-lag-port-down* **level** *level-id*
 - **no number-down** *number-lag-port-down*
 - **[no] shutdown**
 - **policy** *policy-name*
 - **no policy**
 - **unconstrained-bw** *bandwidth* **mandatory-bw** *mandatory-bw*
 - **no unconstrained-bw**
 - **multicast-senders** {auto | always | never}
 - **no multicast-senders**
 - **priority** *dr-priority*
 - **no priority**
 - **[no] shutdown**
 - **sticky-dr** [**priority** *dr-priority*]
 - **no sticky-dr**
 - **three-way-hello** [*compatibility-mode*]
 - **no three-way-hello**
 - **[no] tracking-support**
- **[no] ipv4-multicast-disable**
- **[no] ipv6-multicast-disable**
- **[no] non-dr-attract-traffic**
- **rp**
 - **[no] anycast** *rp-ip-address*
 - **[no] rp-set-peer** *ip-address*
 - **bootstrap-export** *policy-name* [*.. policy-name*]
 - **no bootstrap-export**
 - **bootstrap-import** *policy-name* [*.. policy-name*]
 - **no bootstrap-import**
 - **bsr-candidate**
 - **address** *ip-address*
 - **no address**
 - **hash-mask-len** *hash-mask-length*
 - **no hash-mask-len**
 - **priority** *bootstrap-priority*
 - **no priority**
 - **[no] shutdown**
 - **rp-candidate**

```

— address ip-address
— no address
— [no] group-range {grp-ip-address/mask | grp-ip-address net-
mask}
— holdtime holdtime
— no holdtime
— priority priority
— no priority
— [no] shutdown
— static
— [no] address ip-address
— [no] group-prefix {grp-ip-address/mask | grp-ip-
address netmask}
— [no] override
— rpf-table {rtable-m | rtable-u | both}
— no rpf-table
— [no] shutdown
— spt-switchover-threshold {grp-ip-address/mask | grp-ip-address netmask} spt-
threshold
— spt-switchover-threshold {grp-ipv4-prefix/ipv4-prefix-length | grp-ipv4-pre fix net-
mask | grp-ipv6-prefix/ipv6-prefix-length} spt-threshold
— no spt-switchover-threshold grp-ipv4-prefix/ipv4-prefix-length | grp-ipv4-prefix
netmask | grp-ipv6-prefix/ipv6-prefix-length}
— no spt-switchover-threshold {grp-ip-address/mask | grp-ip-address netmask}
— [no] ssm-groups
— [no] group-range {grp-ip-address/mask | grp-ip-address netmask}

show
— router
— igmp
— group [grp-ip-address]
— interface [ip-int-name | ip-address] [group] [grp-address] [detail]
— ssm-translate
— static [ip-int-name | ip-addr]
— statistics [ip-int-name | ip-address]
— status
— pim
— anycast [detail]
— crp [ip-address]
— group [grp-ip-address] [source ip-address] [type {starstarrp|starg|sg}] [detail]
— interface [ip-int-name | mt-int-name | ip-address] [group [grp-ip-address] source ip-
address] [type {starstarrp | starg | sg}] [detail]
— mc-ecmp-balance [detail]
— neighbor [ip-address | ip-int-name [address ip-address]] [detail]
— rp [family] | ip-address]
— rp-hash ip-address
— s-pmsi [mdSrcAddr] [mdGrpAddr]] [detail]
— statistics [ip-int-name | mt-int-name | ip-address]
— status [detail] [family]

clear
— router
— igmp
— database [interface ip-int-name|ip-address] [group ip-address [source ip-address]]
— statistics [interface ip-int-name|ip-address]
— version [interface ip-int-name|ip-address]

```

Show Commands

```

show
  — service
    — active-subscribers detail
    — active-subscribers mirror
    — active-subscribers [summary]
      — credit-control credit-control [subscriber sub-ident-string]
      — credit-control out-of-credit [action action] [summary]
      — filter [subscriber sub-ident-string] [origin origin]
      — hierarchy [subscriber sub-ident-string]
      — host-tracking [subscriber sub-ident-string]
      — host-tracking [subscriber sub-ident-string] detail
      — host-tracking [subscriber sub-ident-string] summary
      — host-tracking [subscriber sub-ident-string] statistics
        — groups [group group-ip-address]
        — groups group group-ip-address detail
        — groups group group-ip-address summary
      — igmp [subscriber sub-ident-string][detail]
      — subscriber sub-ident-string
      — subscriber sub-ident-string detail
      — subscriber sub-ident-string mirror
      — subscriber sub-ident-string sap sap-id sla-profile sla-profile-name
      — subscriber sub-ident-string sap sap-id sla-profile sla-profile-name detail
      — subscriber sub-ident-string sap sap-id sla-profile sla-profile-name mirror
    — id service-id
      — arp [ip-address] | [mac ieee-address] | [sap port-id:encap] | [interface ip-int-name]
      — base
      — authentication
        — statistics
      — dhcp
        — lease-state [wholesaler service-id] [sap sap-id | sdp sdp-id:vc-id] inter-
face interface-name | ip-address ip-address[/mask] | chaddr ieee-address
| mac ieee-address | {[port port-id] [no-inter-dest-id | inter-dest-id inter-
dest-id]}] [detail]
        — statistics [sap sap-id] | [sdp [sdp-id[:vc-id]] ]
        — summary
      — gsm
        — neighbors group [name] [ip-address]
        — sessions [group name] neighbor ip-address] [port port-number] [associ-
ation] [statistics]
      — host [sap sap-id] [wholesaler service-id] [port port-id] [inter-dest-id intermediate-
destination-id] [detail]
      — host [sap sap-id] [wholesaler service-id] [port port-id] no-inter-dest-id [detail]
      — host summary
      — retailers
      — split-horizon-group [group-name]
      — static-host [sap sap-id] [wholesaler service-id] [port port-id] [inter-dest-id inter-
mediate-destination-id] [detail]
      — static-host [sap sap-id] [wholesaler service-id] [port port-id] no-inter-dest-id
[detail]
      — static-host summary
      — wholesalers
    — subscriber-using [service-id service-id] [sap-id sap-id] [interface ip-int-name] [ip ip-
address[/mask]] [mac ieee-address] [sub-profile sub-profile-name] [sla-profile sla-profile-

```


name] [**app-profile** *app-profile-name*] [**port** *port-id*] [**no-inter-dest-id** | **inter-dest-id** *intermediate-destination-id*]

— **router**

— **dhcp**

— **lease-state** [**interface** *ip-int-name* | *ip-address*]

— **statistics** [*ip-int-name* | *ip-address*]

— **summary**

```
show
  — service
    — id service-id
      — igmp-snooping
        — all
        — base
        — mrollers [detail]
        — mvr
        — port-db {sap sap-id | sdp sdp-id:vc-id} [group grp-address] | detail]
        — proxy-db [group grp-address | detail]
        — querier
        — static [sap sap-id | sdp sdp-id:vc-id]
        — statistics [sap sap-id | sdp sdp-id:vc-id]
      — mfib [brief | group grp-address | statistics [group grp-address]]
```

Clear Commands

```

clear
  — router
    — dhcp
      — lease-state [interface ip-int-name | ip-addr | ip-address ip-address | mac ieee-address]
      — statistics [ip-int-name | ip-address]
    — service
      — id service-id
        — authentication
          — statistics
        — dhcp
          — lease-state [no-dhcp-release]
          — lease-state [port port-id] [inter-dest-id intermediate-destination-id] [no-dhcp-release]
          — lease-state [port port-id] no-inter-dest-id [no-dhcp-release]
          — lease-state ip-address ip-address[/mask] [no-dhcp-release]
          — lease-state mac ieee-address [no-dhcp-release]
          — lease-state sap sap-id [no-dhcp-release]
          — lease-state sdp sdp-id[:vc-id] [no-dhcp-release]
        — 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
          — statistics [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

```

