

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 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 calling-station-id**
 - **description** *description-string*
 - **no description**
 - **[no] collect-stats**
 - **[no] disable-aging**
 - **[no] disable-learning**
 - **egress**
 - **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*

- **anccp-string** *anccp-string*
- **no anccp-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
            — 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-ident-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-dotIp** {top | bottom}
- **no match-qinq-dotIp**
- **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**
- **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] [capture-sap]
      — no sap sap-id
        — anti-spoof {ip | mac | ip-mac}
        — no anti-spoof
        — authentication-policy auth-plcy-name
        — no authentication-policy
        — diameter-auth-policy name
        — no diameter-auth-policy
        — dhcp
          — description description-string
          — no description
          — lease-populate [nbr-of-leases]
          — 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 [nbr-of-leases]
— 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
    — vrn
      — [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**

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] interface
 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]}] [session {none|ipoe}] [detail]
 — statistics [sap sap-id] | [sdp [sdp-id[:vc-id]]]
 — summary
 — dhcp6
 — lease-state [wholesaler service-id] [sap sap-id|sdp sdp-id:vc-id] interface
 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]}] [session {none|ipoe}] [detail]
 — 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
 — gsmpp
 — 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 interme-
diate-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

```