CE Services Command Reference

Command Line Interface (CLI)

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The Carrier Ethernet (CE) Services software is used to configure several Curtiss-Wright Parvus switching subsystems, including DuraNET, DuraMAR, DuraWORX, and DuraDBH products. This switching software provides a powerful set of carrier-grade networking features, including support for the following:

- IPv4 and IPv6 multicast traffic

- Virtual Local Area Networks (VLANs)

- Port control (speed/mode/statistics, flow control)

- Quality of Service (QoS) traffic prioritization

- Link Aggregation (802.3ad)

- Simple Network Management Protocol v1/v2/v3 management

- Secure authentication (802.1X, ACLs, Web/CLI)

- Redundancy (RSTP/MSTP)

- Precision timing (IEEE-1588v2)

- Port monitoring

- IGMP snooping

- Built-in Test (BIT)

- Data zeroization

- Layer 3 IPv4/IPv6 static routing for attached WAN/radios

Chapter 2   Command Reference

2.1 Command List

aaa authentication login
access management
access management <access_id> <access_vid> <start_addr>
access management <access_id> <access_vid> <start_addr>
access-list ace
access-list action
access-list evc-policer <evc_policer_id>
access-list logging
access-list mirror
access-list policy <policy_id>
access-list port-state
access-list rate-limiter <rate_limiter_id>
access-list rate-limiter
access-list shutdown
access-list
aggregation group <v_uint>
aggregation mode
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banner

banner exec <banner>
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clear access management statistics
clear access-list ace statistics
clear dot1x statistics
clear eps <inst> wtr
clear erps
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clear ip arp
clear ip dhcp detailed statistics
clear ip dhcp relay statistics
clear ip dhcp server binding <ip>
clear ip dhcp server binding
clear ip dhcp server statistics
clear ip dhcp snooping statistics
clear ip igmp snooping
clear ip statistics
clear ipv6 mld snooping
clear ipv6 neighbors
clear ipv6 statistics
clear lacp statistics

clear link-oam statistics
clear lldp statistics
clear logging
clear mac address-table
clear mep <inst>
clear mvr
clear perf-mon statistics
clear sflow statistics
clear spanning-tree
clear statistics
client-identifier
client-name <host_name>
clock summer-time <word16> date
clock summer-time <word16> recurring
clock timezone <word_var> <hour_var>
configure terminal
copy
debug prompt <debug_prompt>
default access-list rate-limiter
default range <entry_name>
default-router <ip>
delete <path>

description <dscr>
description <profile_desc>
dir
disable
dmac <dmac>
dns-server <ip>
do <command>
domain-name <domain_name>
dot1x authentication timer inactivity <v_10_to_100000>
dot1x authentication timer re-authenticate <v_1_to_3600>
dot1x feature
dot1x guest-vlan
dot1x guest-vlan <value>
dot1x guest-vlan supplicant
dot1x initialize
dot1x max-reauth-req <value>
dot1x port-control
dot1x radius-qos
dot1x radius-vlan
dot1x re-authenticate
dot1x re-authentication
dot1x system-auth-control

dot1x timeout quiet-period <v_10_to_1000000>
dot1x timeout tx-period <v_1_to_65535>
duplex
dwell-time <dwell>
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enable
enable password
enable secret
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eps <inst> 1plus1
eps <inst> command
eps <inst> domain
eps <inst> holdoff <hold>
eps <inst> mep-work <mep_w> mep-protect <mep_p> mep-aps <mep_aps>
eps <inst> revertive
erps <group> command
erps <group> guard <guard_time_ms>
erps <group> holdoff <holdoff_time_ms>
erps <group> major port0 interface <port_type> <port0> port1 interface <port_type> <port1>
erps <group> mep port0 sf <p0_sf> aps <p0_aps> port1 sf <p1_sf> aps <p1_aps>
erps <group> revertive <wtr_time_minutes>
erps <group> rpl

erps <group> sub port0 interface <port_type> <port0>
erps <group> topology-change propagate
erps <group> version
erps <group> vlan
evc
evc
evc ece
evc policer
excessive-restart
exec-banner
exec-timeout <min>
exit
firmware swap
firmware upgrade <tftpserver_path_file>
flowcontrol
frame-loss
frame-sizes
green-ethernet eee
green-ethernet eee optimize-for-power
green-ethernet eee urgent-queues
green-ethernet energy-detect
green-ethernet led interval <v_0_to_24> intensity <v_0_to_100>

green-ethernet led on-event

green-ethernet short-reach

gvrp

gvrp

gvrp join-request vlan <v_vlan_list>

gvrp leave-request vlan <v_vlan_list>

gvrp max-vlans <maxvlans>

gvrp time

hardware-address <mac>

help

history size <history_size>

host <ip> <subnet_mask>

host <v_ipv6_ucast>

host

hostname <hostname>

informs retries <retries> timeout <timeout>

interface <port_type>

interface vlan <vlist>

ip address

ip arp inspection

ip arp inspection check-vlan

ip arp inspection entry interface <port_type> <in_port_type_id> <vlan_var> <mac_var> <ipv4_var>

ip arp inspection logging
ip arp inspection translate
ip arp inspection trust
ip arp inspection vlan <in_vlan_list>
ip arp inspection vlan <in_vlan_list> logging
ip dhcp excluded-address <low_ip>
ip dhcp pool <pool_name>
ip dhcp relay
ip dhcp relay information option
ip dhcp relay information policy
ip dhcp retry interface vlan <vlan_id>
ip dhcp server
ip dhcp server
ip dhcp snooping
ip dhcp snooping trust
ip dns proxy
ip helper-address <v_ipv4_ucast>
ip http secure-redirect
ip http secure-server
ip igmp host-proxy
ip igmp snooping
ip igmp snooping

ip igmp snooping compatibility
ip igmp snooping filter <profile_name>
ip igmp snooping immediate-leave
ip igmp snooping last-member-query-interval <ipmc_lmqi>
ip igmp snooping max-groups <throttling>
ip igmp snooping mrouter
ip igmp snooping priority <cos_priority>
ip igmp snooping querier
ip igmp snooping query-interval <ipmc_qi>
ip igmp snooping query-max-response-time <ipmc_qri>
ip igmp snooping robustness-variable <ipmc_rv>
ip igmp snooping unsolicited-report-interval <ipmc_uri>
ip igmp snooping vlan <v_vlan_list>
ip igmp ssm-range <v_ipv4_mcast> <ipv4_prefix_length>
ip igmp unknown-flooding
ip name-server
ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>
ip routing
ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var> <mac_var>
ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var> <mask_var>
ip ssh
ip verify source

ip verify source
ip verify source limit <cnt_var>
ip verify source translate
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ipmc profile <profile_name>
ipmc range <entry_name>
ipv6 address <subnet>
ipv6 mld host-proxy
ipv6 mld snooping
ipv6 mld snooping
ipv6 mld snooping compatibility
ipv6 mld snooping filter <profile_name>
ipv6 mld snooping immediate-leave
ipv6 mld snooping last-member-query-interval <ipmc_lmqi>
ipv6 mld snooping max-groups <throttling>
ipv6 mld snooping mrouter
ipv6 mld snooping priority <cos_priority>
ipv6 mld snooping querier election
ipv6 mld snooping query-interval <ipmc_qi>
ipv6 mld snooping query-max-response-time <ipmc_qri>
ipv6 mld snooping robustness-variable <ipmc_rv>
ipv6 mld snooping unsolicited-report-interval <ipmc_uri>

ipv6 mld snooping vlan <v_vlan_list>
ipv6 mld ssm-range <v_ipv6_mcast> <ipv6_prefix_length>
ipv6 mld unknown-flooding
ipv6 mtu <mtubytes>
ipv6 route <v_ipv6_subnet>
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lacp key
lacp port-priority <v_1_to_65535>
lacp role
lacp system-priority <v_1_to_65535>
lacp timeout
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lease
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link-oam link-monitor frame-seconds
link-oam link-monitor supported
link-oam link-monitor symbol-period
link-oam mib-retrieval supported
link-oam mode

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link-oam remote-loopback
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lldp holdtime <val>
lldp med datum
lldp med fast <v_1_to_10>
lldp med location-tlv altitude
lldp med location-tlv civic-addr
lldp med location-tlv elin-addr <v_word25>
lldp med location-tlv latitude
lldp med location-tlv longitude
lldp med media-vlan policy-list <v_range_list>
lldp med media-vlan-policy <policy_index>
lldp med transmit-tlv
lldp receive
lldp reinit <val>
lldp timer <val>
lldp tlv-select
lldp transmission-delay <val>
lldp transmit
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logging level
logging on
logout
loop-protect
loop-protect
loop-protect action
loop-protect shutdown-time <t>
loop-protect transmit-time <t>
loop-protect tx-mode
mac address-table aging-time <v_0_10_to_1000000>
mac address-table learning
mac address-table static <v_mac_addr> vlan <v_vlan_id> interface <port_type>
media-type
meg-level <mel>
mep <inst>
mep <inst> ais
mep <inst> aps <prio>
mep <inst> cc <prio>
mep <inst> client domain
mep <inst> client flow <cflow> level <level>
mep <inst> dm <prio>

mep <inst> dm ns
mep <inst> dm overflow-reset
mep <inst> dm proprietary
mep <inst> dm syncronized
mep <inst> lb <prio>
mep <inst> lck
mep <inst> level <level>
mep <inst> lm <prio>
mep <inst> lt <prio>
mep <inst> meg-id <megid>
mep <inst> mep-id <mepid>
mep <inst> peer-mep-id <mepid>
mep <inst> performance-monitoring
mep <inst> tst <prio>
mep <inst> tst rx
mep <inst> tst tx
mep <inst> vid <vid>
mep <inst> voe
monitor destination interface <port_type> <in_port_type>
monitor source
more <path>
motd-banner

mpls evc <evc_idx> server-xc
mpls l2 <idx> port <port> peer <peer> self <self>
mpls qos-to-tc map <map>
mpls tc-to-qos map <map> qos-dp <q0> <dp0> <q1> <dp1> <q2> <dp2> <q3> <dp3> <q4> <dp4> <q5> <dp5> <q6> <dp6> <q7> <dp7>
mpls xc <idx> init
mpls xc <xc_idx> l2
mpls xc <xc_idx> label
mpls xc <xc_idx> server
mtu <max_length>
mvr
mvr immediate-leave
mvr name <mvr_name> channel <profile_name>
mvr name <mvr_name> frame priority <cos_priority>
mvr name <mvr_name> frame tagged
mvr name <mvr_name> igmp-address <v_ipv4_ucast>
mvr name <mvr_name> last-member-query-interval <ipmc_lmqi>
mvr name <mvr_name> mode
mvr name <mvr_name> type
mvr vlan <v_vlan_list>
mvr vlan <v_vlan_list> channel <profile_name>
mvr vlan <v_vlan_list> frame priority <cos_priority>

mvr vlan <v_vlan_list> frame tagged
mvr vlan <v_vlan_list> igmp-address <v_ipv4_ucast>
mvr vlan <v_vlan_list> last-member-query-interval <ipmc_lmqi>
mvr vlan <v_vlan_list> mode
mvr vlan <v_vlan_list> type
name <vlan_name>
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netbios-node-type
netbios-scope <netbios_scope>
network <ip> <subnet_mask>
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nis-domain-name <domain_name>
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no access management <access_id_list>
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no access-list evc-policer
no access-list logging
no access-list mirror
no access-list policy
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no banner exec
no banner login
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no clock summer-time
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no description
no description
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no domain-name
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no dot1x guest-vlan
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no dot1x guest-vlan supplicant
no dot1x max-reauth-req
no dot1x port-control
no dot1x radius-qos
no dot1x radius-vlan
no dot1x re-authentication
no dot1x system-auth-control
no dot1x timeout quiet-period
no dot1x timeout tx-period
no duplex
no dwell-time
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no enable password
no enable secret
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no eps <inst> command
no eps <inst> holdoff
no eps <inst> revertive

no erps <group>
no erps <group> command
no erps <group> guard
no erps <group> holdoff
no erps <group> mep
no erps <group> revertive
no erps <group> rpl
no erps <group> topology-change propagate
no erps <group> version
no erps <group> vlan
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no evc ece <ece_id>
no excessive-restart
no exec-banner
no exec-timeout
no flowcontrol
no frame-loss
no frame-sizes
no green-ethernet eee
no green-ethernet eee optimize-for-power
no green-ethernet eee urgent-queues
no green-ethernet energy-detect

no green-ethernet led interval <0~24>
no green-ethernet led on-event
no green-ethernet short-reach
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no gvrp
no gvrp max-vlans <maxvlans>
no gvrp time
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no history size
no host
no host
no hostname
no informs
no interface vlan <vlist>
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no ip arp inspection check-vlan
no ip arp inspection entry interface <port_type> <in_port_type_id> <vlan_var> <mac_var> <ipv4_var>
no ip arp inspection logging
no ip arp inspection trust
no ip arp inspection vlan <in_vlan_list>
no ip arp inspection vlan <in_vlan_list> logging

no ip dhcp excluded-address <low_ip>
no ip dhcp pool <pool_name>
no ip dhcp relay
no ip dhcp relay information option
no ip dhcp relay information policy
no ip dhcp server
no ip dhcp server
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no ip dhcp snooping trust
no ip dns proxy
no ip helper-address
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no ip http secure-server
no ip igmp host-proxy
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no ip igmp snooping
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no ip igmp snooping filter
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no ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var> <mask_var>
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no ipv6 mld snooping immediate-leave
no ipv6 mld snooping last-member-query-interval
no ipv6 mld snooping max-groups
no ipv6 mld snooping mrouter
no ipv6 mld snooping priority
no ipv6 mld snooping querier election
no ipv6 mld snooping query-interval
no ipv6 mld snooping query-max-response-time
no ipv6 mld snooping robustness-variable
no ipv6 mld snooping unsolicited-report-interval
no ipv6 mld snooping vlan
no ipv6 mld ssm-range
no ipv6 mld unknown-flooding
no ipv6 mtu
no ipv6 route <v_ipv6_subnet>
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no lacp key

no lacp port-priority <v_1_to_65535>
no lacp role
no lacp system-priority <v_1_to_65535>
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no link-oam link-monitor frame-seconds
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no link-oam link-monitor symbol-period
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no link-oam variable-retrieve
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no lldp med datum
no lldp med fast
no lldp med location-tlv altitude
no lldp med location-tlv civic-addr

no lldp med location-tlv elin-addr
no lldp med location-tlv latitude
no lldp med location-tlv longitude
no lldp med media-vlan policy-list
no lldp med media-vlan-policy <policies_list>
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no lldp reinit
no lldp timer
no lldp tlv-select
no lldp transmission-delay
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no loop-protect
no loop-protect action
no loop-protect shutdown-time
no loop-protect transmit-time
no loop-protect tx-mode
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no mac address-table aging-time <v_0_10_to_1000000>

no mac address-table learning

no mac address-table static <v_mac_addr> vlan <v_vlan_id> interface <port_type>

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no mep <inst> ais

no mep <inst> aps

no mep <inst> cc

no mep <inst> client-flow

no mep <inst> dm

no mep <inst> dm ns

no mep <inst> dm overflow-reset

no mep <inst> dm proprietary

no mep <inst> dm syncronized

no mep <inst> lb

no mep <inst> lck

no mep <inst> lm

no mep <inst> lt

no mep <inst> peer-mep-id

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no mep <inst> vid
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no mpls xc <idx>
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no mvr name <mvr_name> frame priority
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no mvr name <mvr_name> type
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no mvr vlan <v_vlan_list> frame tagged
no mvr vlan <v_vlan_list> igmp-address
no mvr vlan <v_vlan_list> last-member-query-interval
no mvr vlan <v_vlan_list> mode
no mvr vlan <v_vlan_list> type
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no netbios-scope
no network
no nis-domain-name
no nis-server
no ntp
no ntp server <index_var>
no ntp-server
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no perf-mon session
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no perf-mon transfer
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no perf-mon transfer hour
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no platform phy instance
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no port-security
no port-security aging
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no port-security maximum
no port-security shutdown
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no privilege
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no ptp <clockinst> clk
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no ptp <clockinst> delay-req interval

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no ptp <clockinst> ho

no ptp <clockinst> ingress-latency

no ptp <clockinst> log

no ptp <clockinst> mode

no ptp <clockinst> priority1

no ptp <clockinst> priority2

no ptp <clockinst> servo ad

no ptp <clockinst> servo ai

no ptp <clockinst> servo ap

no ptp <clockinst> servo displaystates

no ptp <clockinst> sync-interval

no ptp <clockinst> uni <idx>

no ptp <clockinst> wireless mode interface <port_type>

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no ptp pps-delay

no ptp pps-sync

no ptp ref-clock

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no pvlan isolation

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no qos dei

no qos dpl

no qos dscp-classify

no qos dscp-remark

no qos dscp-translate

no qos map cos-dscp <cos> dpl <dpl>

no qos map cos-tag cos <cos> dpl <dpl>

no qos map dscp-classify

no qos map dscp-cos

no qos map dscp-egress-translation

no qos map dscp-ingress-translation

no qos map tag-cos pcp <pcp> dei <dei>

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no qos policer

no qos qce <qce_id_range>

no qos qce

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no qos queue-shaper queue <queue>

no qos shaper

no qos storm
no qos storm
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no rmon collection history <id>
no rmon collection stats <id>
no rmon event <id>
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no sflow collector-address
no sflow collector-port
no sflow counter-poll-interval
no sflow max-datagram-size
no sflow max-sampling-size
no sflow timeout
no shutdown
no shutdown
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no snmp-server access <group_name> model
no snmp-server community v2c
no snmp-server community v3 <community>
no snmp-server contact
no snmp-server engined-id local
no snmp-server host <conf_name>
no snmp-server host <conf_name> traps
no snmp-server location
no snmp-server security-to-group model
no snmp-server trap
no snmp-server user <username> engine-id <engineID>

no snmp-server version
no snmp-server view <view_name> <oid_subtree>
no spanning-tree
no spanning-tree
no spanning-tree auto-edge
no spanning-tree auto-edge
no spanning-tree bpdu-guard
no spanning-tree bpdu-guard
no spanning-tree edge
no spanning-tree edge
no spanning-tree edge bpdu-filter
no spanning-tree edge bpdu-guard
no spanning-tree link-type
no spanning-tree link-type
no spanning-tree mode
no spanning-tree mst <instance> cost
no spanning-tree mst <instance> cost
no spanning-tree mst <instance> port-priority
no spanning-tree mst <instance> port-priority
no spanning-tree mst <instance> priority
no spanning-tree mst <instance> vlan
no spanning-tree mst forward-time

no spanning-tree mst max-age
no spanning-tree mst max-hops
no spanning-tree mst name
no spanning-tree recovery interval
no spanning-tree restricted-role
no spanning-tree restricted-role
no spanning-tree restricted-tcn
no spanning-tree restricted-tcn
no spanning-tree transmit hold-count
no speed
no switchport access vlan
no switchport forbidden vlan
no switchport hybrid acceptable-frame-type
no switchport hybrid allowed vlan
no switchport hybrid egress-tag
no switchport hybrid ingress-filtering
no switchport hybrid native vlan
no switchport hybrid port-type
no switchport mode
no switchport trunk allowed vlan
no switchport trunk native vlan
no switchport trunk vlan tag native

no switchport vlan ip-subnet id <vce_id_list>
no switchport vlan mac <mac_addr> vlan <vid>
no switchport vlan mapping
no switchport vlan mapping <group> <v_vlan_id_from>
no switchport vlan protocol group <grp_id> vlan <vid>
no switchport voice vlan discovery-protocol
no switchport voice vlan mode
no switchport voice vlan security
no tacacs-server deadtime
no tacacs-server host <host_name>
no tacacs-server key
no tacacs-server timeout
no terminal editing
no terminal exec-timeout
no terminal history size
no terminal length
no terminal width
no test-interface
no test-vlan
no thermal-protect port-prio
no thermal-protect prio <prio_list>
no throughput

no traps
no upnp
no upnp advertising-duration
no upnp ttl
no username <username>
no vendor class-identifier <class_id>
no version
no vlan protocol
no vlan
no voice vlan
no voice vlan aging-time
no voice vlan class
no voice vlan oui <oui>
no voice vlan vid
no web privilege group
no width
ntp
ntp server <index_var> ip-address
ntp server <index_var> ip-address
ntp-server <ip>
password encrypted <encry_password>
password none

password unencrypted \<password>
perf-mon interval
perf-mon session
perf-mon storage
perf-mon transfer
perf-mon transfer fixed-offset \<fixed_offset_var>
perf-mon transfer hour \<hours_var>
perf-mon transfer incomplete
perf-mon transfer minute \<minutes_var>
perf-mon transfer mode
perf-mon transfer random-offset \<random_offset_var>
perf-mon transfer url \<url_var>
ping ip \<v_ip_addr>
ping ipv6 \<v_ipv6_addr>
platform phy failover
platform phy instance default-activate
platform phy instance restart
platform phy instance
port-security
port-security
port-security aging
port-security aging time \<v_10_to_10000000>

port-security maximum
port-security violation
privilege level <privileged_level>
privilege
ptp <clockinst>
ptp <clockinst> announce
ptp <clockinst> clk sync <threshold> ap <ap>
ptp <clockinst> delay-asymmetry <delay_asymmetry>
ptp <clockinst> delay-mechanism
ptp <clockinst> delay-req interval <interval>
ptp <clockinst> domain <domain>
ptp <clockinst> egress-latency <egress_latency>
ptp <clockinst> filter
ptp <clockinst> ho
ptp <clockinst> ingress-latency <ingress_latency>
ptp <clockinst> local-clock
ptp <clockinst> log <debug_mode>
ptp <clockinst> mode
ptp <clockinst> priority1 <priority1>
ptp <clockinst> priority2 <priority2>
ptp <clockinst> servo ad <ad>
ptp <clockinst> servo ai <ai>

ptp \<clockinst\> servo ap \<ap\>
ptp \<clockinst\> servo displaystates
ptp \<clockinst\> slave-cfg
ptp \<clockinst\> sync-interval \<interval\>
ptp \<clockinst\> time-property
ptp \<clockinst\> uni \<idx\>
ptp \<clockinst\> wireless delay \<base_delay\>
ptp \<clockinst\> wireless mode interface \<port_type\>
ptp \<clockinst\> wireless pre-notification interface \<port_type\>
ptp ext
ptp ms-pdv
ptp pps-delay
ptp pps-sync
ptp ref-clock
ptp rs422
ptp tc-internal
pvlan \<pvlan_list\>
pvlan isolation
qos cos \<cos\>
qos dei \<dei\>
qos dpl \<dpl\>
qos dscp-classify

qos dscp-remark
qos dscp-translate
qos map cos-dscp <cos> dpl <dpl> dscp
qos map cos-tag cos <cos> dpl <dpl> pcp <pcp> dei <dei>
qos map dscp-classify
qos map dscp-cos
qos map dscp-egress-translation
qos map dscp-ingress-translation
qos map tag-cos pcp <pcp> dei <dei> cos <cos> dpl <dpl>
qos pcp <pcp>
qos policer <rate>
qos qce refresh
qos qce
qos qce
qos queue-policer queue <queue> <rate>
qos queue-shaper queue <queue> <rate>
qos shaper <rate>
qos storm
qos storm
qos tag-remark
qos trust dscp
qos trust tag

qos wred queue <queue> min-fl <min_fl> max <max>
qos wred queue <queue> min-th <min_th> mdp-1 <mdp_1> mdp-2 <mdp_2> mdp-3 <mdp_3>
qos wrr <w0> <w1> <w2> <w3> <w4> <w5>
radius-server attribute 32 <id>
radius-server attribute 4 <ipv4>
radius-server attribute 95 <ipv6>
radius-server deadtime <minutes>
radius-server host <host_name>
radius-server key <key>
radius-server retransmit <retries>
radius-server timeout <seconds>
range <entry_name>
reload
rfc2544 delete <report_name>
rfc2544 profile <profile_name>
rfc2544 rename profile <old_profile_name> <new_profile_name>
rfc2544 save <report_name> <tftp_url>
rfc2544 start <report_name> profile <profile_name>
rfc2544 stop <report_name>
rmon alarm <id> <oid_str> <interval>
rmon alarm <id>
rmon collection history <id>

rmon collection stats <id>
rmon event <id>
send
sequence-check
sflow
sflow agent-ip
sflow collector-address
sflow collector-port
sflow counter-poll-interval
sflow max-datagram-size
sflow max-sampling-size
sflow sampling-rate
sflow timeout
show aaa
show access management
show access-list
show access-list ace-status
show aggregation
show clock
show clock detail
show dot1x statistics
show dot1x status

show eps
show erps
show evc statistics
show evc
show green-ethernet
show green-ethernet eee
show green-ethernet energy-detect
show green-ethernet short-reach
show history
show interface <port_type>
show interface <port_type>
show interface <port_type>
show interface <port_type>
show interface <port_type>
show interface vlan
show ip arp
show ip arp inspection
show ip arp inspection entry
show ip dhcp detailed statistics
show ip dhcp excluded-address
show ip dhcp pool
show ip dhcp relay

show ip dhcp server
show ip dhcp server binding <ip>
show ip dhcp server binding
show ip dhcp server declined-ip
show ip dhcp server declined-ip <declined_ip>
show ip dhcp server statistics
show ip dhcp snooping
show ip dhcp snooping
show ip dhcp snooping table
show ip http server secure status
show ip igmp snooping
show ip igmp snooping mrouter
show ip interface brief
show ip name-server
show ip route
show ip source binding
show ip ssh
show ip statistics
show ip verify source
show ipmc profile
show ipmc range
show ipv6 interface

show ipv6 mld snooping
show ipv6 mld snooping mrouter
show ipv6 neighbor
show ipv6 route
show ipv6 statistics
show lacp
show line
show link-oam
show lldp med media-vlan-policy
show lldp med remote-device
show lldp neighbors
show lldp statistics
show logging <log_id>
show logging
show loop-protect
show mac address-table
show mep
show mpls evc <evc_idx>
show mpls l2
show mpls qos-to-tc map <map>
show mpls tc-to-qos map <map>
show mpls xc

show mvr

show ntp status

show perf-mon interval-info

show perf-mon

show platform phy

show platform phy failover

show platform phy id

show platform phy instance

show platform phy status

show port-security port

show port-security switch

show privilege

show ptp <clockinst> local-clock

show ptp <clockinst> slave-cfg

show ptp <clockinst> slave-table-unicast

show ptp <clockinst>

show ptp ext

show ptp rs422

show pvlan

show pvlan isolation

show qos

show radius-server

show rfc2544 profile
show rfc2544 report
show rmon alarm
show rmon event
show rmon history
show rmon statistics
show running-config
show running-config feature <feature_name>
show running-config interface <port_type>
show running-config interface vlan <list>
show running-config line
show running-config vlan <list>
show sflow
show sflow statistics
show snmp
show snmp access
show snmp community v3
show snmp host
show snmp mib context
show snmp mib ifmib ifIndex
show snmp mib redefine
show snmp security-to-group

show snmp user
show snmp view
show spanning-tree
show switchport forbidden
show tacacs-server
show terminal
show thermal-protect
show upnp
show users
show version
show version
show vlan
show vlan ip-subnet
show vlan mac
show vlan protocol
show vlan status
show voice vlan
show web privilege group
shutdown
shutdown
snmp-server
snmp-server access <group_name> model

snmp-server community v2c <comm>
snmp-server community v3 <v3_comm>
snmp-server contact <v_line255>
snmp-server engine-id local <engineID>
snmp-server host <conf_name>
snmp-server host <conf_name> traps
snmp-server location <v_line255>
snmp-server security-to-group model
snmp-server trap
snmp-server user <username> engine-id <engineID>
snmp-server version
snmp-server view <view_name> <oid_subtree>
spanning-tree
spanning-tree
spanning-tree aggregation
spanning-tree auto-edge
spanning-tree auto-edge
spanning-tree bpdu-guard
spanning-tree bpdu-guard
spanning-tree edge
spanning-tree edge
spanning-tree edge bpdu-filter

spanning-tree edge bpdu-guard
spanning-tree link-type
spanning-tree link-type
spanning-tree mode
spanning-tree mst <instance> cost
spanning-tree mst <instance> cost
spanning-tree mst <instance> port-priority <prio>
spanning-tree mst <instance> port-priority <prio>
spanning-tree mst <instance> priority <prio>
spanning-tree mst <instance> vlan <v_vlan_list>
spanning-tree mst forward-time <fwdtime>
spanning-tree mst max-age <maxage>
spanning-tree mst max-hops <maxhops>
spanning-tree mst name <name> revision <v_0_to_65535>
spanning-tree recovery interval <interval>
spanning-tree restricted-role
spanning-tree restricted-role
spanning-tree restricted-tcn
spanning-tree restricted-tcn
spanning-tree transmit hold-count <holdcount>
speed
switchport access vlan <pvid>

switchport forbidden vlan
switchport hybrid acceptable-frame-type
switchport hybrid allowed vlan
switchport hybrid egress-tag
switchport hybrid ingress-filtering
switchport hybrid native vlan <pvid>
switchport hybrid port-type
switchport mode
switchport trunk allowed vlan
switchport trunk native vlan <pvid>
switchport trunk vlan tag native
switchport vlan ip-subnet id <vce_id> <ipv4> vlan <vid>
switchport vlan mac <mac_addr> vlan <vid>
switchport vlan mapping <group>
switchport vlan mapping <group> <vlan_list> <translation_vlan>
switchport vlan protocol group <grp_id> vlan <vid>
switchport voice vlan discovery-protocol
switchport voice vlan mode
switchport voice vlan security
tacacs-server deadtime <minutes>
tacacs-server host <host_name>
tacacs-server key <key>

tacacs-server timeout <seconds>
terminal editing
terminal exec-timeout <min>
terminal help
terminal history size <history_size>
terminal length <lines>
terminal width <width>
test-interface <port_type> <ifc>
test-vlan <vid>
thermal-protect port-prio <prio>
thermal-protect prio <prio_list> temperature <new_temp>
throughput
traps
upnp
upnp advertising-duration <v_100_to_86400>
upnp ttl <v_1_to_255>
username <username> privilege <priv> password encrypted <encry_password>
username <username> privilege <priv> password none
username <username> privilege <priv> password unencrypted <password>
vendor class-identifier <class_id> specific-info <hexval>
version
vlan <vlist>

vlan ethertype s-custom-port <etype>
vlan protocol
voice vlan
voice vlan aging-time <aging_time>
voice vlan class
voice vlan oui <oui>
voice vlan vid <vid>
web privilege group <group_name> level
width <width>

2.2 Command Descriptions

----

aaa authentication login

Syntax

```
aaa authentication login { console | telnet | ssh | http } { { local | radius |
tacacs } [ { local | radius | tacacs } [ { local | radius | tacacs } ] ] }
```

Syntax Description

aaa

Authentication, Authorization and Accounting

authentication

Authentication

login

Login

console

Configure Console

telnet

Configure Telnet

ssh

Configure SSH

http

Configure HTTP

local

Use local database for authentication

radius

Use RADIUS for authentication

tacacs

Use TACACS+ for authentication

local

Use local database for authentication

radius

Use RADIUS for authentication

tacacs

Use TACACS+ for authentication

local

Use local database for authentication

radius

Use RADIUS for authentication

tacacs

Use TACACS+ for authentication

Command Mode

Global Configuration Mode

Privilege level

15

----

access management

Syntax

```
access management
```

Syntax Description

access

Access management

management

Access management configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

access management <access_id> <access_vid> <start_addr>

Syntax
```
access management <access_id> <access_vid> <start_addr> [ to <end_addr> ] { [
web ] [ snmp ] [ telnet ] | all }
```

Syntax Description

access
  Access management

management
  Access management configuration

<access_id>
  ID of access management entry

<access_vid>
  The VLAN ID for the access management entry

<start_addr>
  Start IPv4 address

to
  End address of the range

<end_addr>
  End IPv4 address

web
  Web service

snmp
  SNMP service

telnet
  TELNET/SSH service

all
  All services

Command Mode
Global Configuration Mode

Privilege level

15

----

access management <access_id> <access_vid> <start_addr>

Syntax

```
access management <access_id> <access_vid> <start_addr> [ to <end_addr> ] { [
web ] [ snmp ] [ telnet ] | all }
```

Syntax Description

access
Access management

management
Access management configuration

<access_id>
ID of access management entry

<access_vid>
The VLAN ID for the access management entry

<start_addr>
Start IPv6 address

to
End address of the range

<end_addr>
End IPv6 address

web
Web service

snmp
SNMP service

telnet
TELNET/SSH service

all
All services

Command Mode

Global Configuration Mode

Privilege level

15

----

access-list ace

Syntax

```
access-list ace [ update ] <ace_id> [ next { <ace_id_next> | last } ] [ ingress
{ switch <ingress_switch_id> | switchport { <ingress_switch_port_id> |
<ingress_switch_port_list> } | interface { <port_type> <ingress_port_id> |
<port_type> [ <ingress_port_list> ] } | any } ] [ policy <policy> [ policy-
bitmask <policy_bitmask> ] ] [ tag { tagged | untagged | any } ] [ vid { <vid>
| any } ] [ tag-priority { <tag_priority> | 0-1 | 2-3 | 4-5 | 6-7 | 0-3 | 4-7 |
any } ] [ dmac-type { unicast | multicast | broadcast | any } ] [ frame-type {
any | etype [ etype-value { <etype_value> | any } ] [ smac { <etype_smac> | any
} ] [ dmac { <etype_dmac> | any } ] | arp [ sip { <arp_sip> | any } ] [ dip {
<arp_dip> | any } ] [ smac { <arp_smac> | any } ] [ arp-opcode { arp | rarp |
other | any } ] [ arp-flag [ arp-request { <arp_flag_request> | any } ] [ arp-
smac { <arp_flag_smac> | any } ] [ arp-tmac { <arp_flag_tmac> | any } ] [ arp-
len { <arp_flag_len> | any } ] [ arp-ip { <arp_flag_ip> | any } ] [ arp-ether {
<arp_flag_ether> | any } ] ] | ipv4 [ sip { <sipv4> | any } ] [ dip { <dipv4> |
any } ] [ ip-protocol { <ipv4_protocol> | any } ] [ ip-flag [ ip-ttl {
<ip_flag_ttl> | any } ] [ ip-options { <ip_flag_options> | any } ] [ ip-
fragment { <ip_flag_fragment> | any } ] ] | ipv4-icmp [ sip { <sipv4_icmp> |
any } ] [ dip { <dipv4_icmp> | any } ] [ icmp-type { <icmpv4_type> | any } ] [
icmp-code { <icmpv4_code> | any } ] [ ip-flag [ ip-ttl { <ip_flag_icmp_ttl> |
any } ] [ ip-options { <ip_flag_icmp_options> | any } ] [ ip-fragment {
<ip_flag_icmp_fragment> | any } ] ] | ipv4-udp [ sip { <sipv4_udp> | any } ] [
dip { <dipv4_udp> | any } ] [ sport { <sportv4_udp_start> [ to
<sportv4_udp_end> ] | any } ] [ dport { <dportv4_udp_start> [ to
<dportv4_udp_end> ] | any } ] [ ip-flag [ ip-ttl { <ip_flag_udp_ttl> | any } ]
[ ip-options { <ip_flag_udp_options> | any } ] [ ip-fragment {
<ip_flag_udp_fragment> | any } ] ] | ipv4-tcp [ sip { <sipv4_tcp> | any } ] [
dip { <dipv4_tcp> | any } ] [ sport { <sportv4_tcp_start> [ to
<sportv4_tcp_end> ] | any } ] [ dport { <dportv4_tcp_start> [ to
<dportv4_tcp_end> ] | any } ] [ ip-flag [ ip-ttl { <ip_flag_tcp_ttl> | any } ]
[ ip-options { <ip_flag_tcp_options> | any } ] [ ip-fragment {
<ip_flag_tcp_fragment> | any } ] ] [ tcp-flag [ tcp-fin { <tcpv4_flag_fin> |
any } ] [ tcp-syn { <tcpv4_flag_syn> | any } ] [ tcp-rst { <tcpv4_flag_rst> |
any } ] [ tcp-psh { <tcpv4_flag_psh> | any } ] [ tcp-ack { <tcpv4_flag_ack> |
any } ] [ tcp-urg { <tcpv4_flag_urg> | any } ] ] | ipv6 [ next-header {
<next_header> | any } ] [ sip { <sipv6> [ sip-bitmask <sipv6_bitmask> ] | any }
] [ hop-limit { <hop_limit> | any } ] | ipv6-icmp [ sip { <sipv6_icmp> [ sip-
bitmask <sipv6_bitmask_icmp> ] | any } ] [ icmp-type { <icmpv6_type> | any } ]
[ icmp-code { <icmpv6_code> | any } ] [ hop-limit { <hop_limit_icmp> | any } ]
| ipv6-udp [ sip { <sipv6_udp> [ sip-bitmask <sipv6_bitmask_udp> ] | any } ] [
sport { <sportv6_udp_start> [ to <sportv6_udp_end> ] | any } ] [ dport {
<dportv6_udp_start> [ to <dportv6_udp_end> ] | any } ] [ hop-limit {
<hop_limit_udp> | any } ] | ipv6-tcp [ sip { <sipv6_tcp> [ sip-bitmask
<sipv6_bitmask_tcp> ] | any } ] [ sport { <sportv6_tcp_start> [ to
<sportv6_tcp_end> ] | any } ] [ dport { <dportv6_tcp_start> [ to
<dportv6_tcp_end> ] | any } ] [ hop-limit { <hop_limit_tcp> | any } ] [ tcp-
flag [ tcp-fin { <tcpv6_flag_fin> | any } ] [ tcp-syn { <tcpv6_flag_syn> | any
} ] [ tcp-rst { <tcpv6_flag_rst> | any } ] [ tcp-psh { <tcpv6_flag_psh> | any }
] [ tcp-ack { <tcpv6_flag_ack> | any } ] [ tcp-urg { <tcpv6_flag_urg> | any } ]
] } ] [ action { permit | deny | filter { switchport <filter_switch_port_list>
| interface <port_type> [ <fliter_port_list> ] } } ] [ rate-limiter {
<rate_limiter_id> | disable } ] [ evc-policer { <evc_policer_id> | disable } ]
```

```
[ { redirect | port-copy } { switchport { <redirect_switch_port_id> |
<redirect_switch_port_list> } | interface { <port_type> <redirect_port_id> |
<port_type> [ <redirect_port_list> ] } | disable } ] [ mirror [ disable ] ] [
logging [ disable ] ] [ shutdown [ disable ] ] [ lookup [ disable ] ]
```

Syntax Description

access-list
> Access list

ace
> Access list entry

update
> Update an existing ACE

<ace_id>
> ACE ID

next
> insert the current ACE before the next ACE ID

<ace_id_next>
> The next ID

last
> Place the current ACE to the end of access list

ingress
> Ingress

switch
> Switch

<ingress_switch_id>
> Switch ID

switchport
> Switchport

<ingress_switch_port_id>
> Swithport ID

<ingress_switch_port_list>
> List of swithport ID

interface
> Select an interface to configure

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<ingress_port_id>
> Port ID in the format of switch-no/port-no

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<ingress_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

any

Don't-care the ingress interface

policy

Policy

<policy>

Policy ID

policy-bitmask

The bitmask for policy ID

<policy_bitmask>

The value of policy bitmask

tag

Tag

tagged

Tagged

untagged

Untagged

any

Don't-care tagged or untagged

vid

VID field

<vid>

The value of VID field

any

Don't-care the value of VID field

tag-priority

Tag priority

<tag_priority>

The value of tag priority

0-1

The range of tag priority

2-3

The range of tag priority

4-5

The range of tag priority

6-7

The range of tag priority

0-3

The range of tag priority

4-7

The range of tag priority

any

Don't-care the value of tag priority field

dmac-type

The type of destination MAC address

unicast

Unicast destination MAC address

multicast

Multicast destination MAC address

broadcast

Broadcast destination MAC address

any

Don't-care the type of destination MAC address

frame-type

Frame type

any

Don't-care the frame type

etype

Frame type of etype

etype-value

Etype value

<etype_value>

The value of etype field

any

Don't-care the value of etype field

smac

Source MAC address field

<etype_smac>

The value of source MAC address field

any

Don't-care the value of source MAC address field

dmac

Destination MAC address field

<etype_dmac>

The value of destination MAC address field

any

Don't-care the value of destination MAC address field

arp

Frame type of ARP

sip

Source IP address field

<arp_sip>

The value of source IP address field

any

Don't-care the value of source IP address field

dip

Destination IP address field

<arp_dip>

The value of destination IP address field

any

Don't-care the value of destination IP address field

smac

Source MAC address field

<arp_smac>

The value of source MAC address field

any

Don't-care the value of source MAC address field

arp-opcode

ARP/RARP opcode field

arp

ARP opcode

rarp

RARP opcode

other

None ARP/RARP opcode

any

Don't-care the value of ARP/RARP opcode field

arp-flag

ARP flag

arp-request

ARP Request/Reply opcode field

<arp_flag_request>

The value of ARP Request/Reply opcode field

any

Don't-care the value of ARP Request/Reply opcode field

arp-smac

ARP sender hardware address (SHA) field

<arp_flag_smac>

The value of ARP sender hardware address (SHA) field

any

Don't-care the value of ARP sender hardware address (SHA) field

arp-tmac

ARP target hardware address (THA) field

<arp_flag_tmac>

The value of ARP target hardware address (THA) field

any

Don't-care the value of ARP target hardware address (THA) field

arp-len

ARP/RARP hardware address length (HLN) and protocol address length (PLN) field

<arp_flag_len>

The value of ARP/RARP hardware address length (HLN) and protocol address length (PLN) field

any

Don't-care the value of ARP/RARP hardware address length (HLN) and protocol address length (PLN) field

arp-ip

ARP/RARP hardware address space (HRD) field

<arp_flag_ip>

The value of ARP/RARP hardware address space (HRD) field

any

Don't-care the value of ARP/RARP hardware address space (HRD) field

arp-ether

ARP/RARP protocol address space (PRO) field

<arp_flag_ether>

The value of ARP/RARP protocol address space (PRO) field

any

Don't-care the value of ARP/RARP protocol address space (PRO) field

ipv4

Frame type of IPv4

sip

Source IP address field

<sipv4>

The value of source IP address field

any

Don't-care the value of source IP address field

dip

Destination IP address field

<dipv4>

The value of destination IP address field

any

Don't-care the value of destination IP address field

ip-protocol

HELP_ACE_IP_PROTO

<ipv4_protocol>

The value of IPv4 protocol field

any

Don't-care the value of IPv4 protocol field

ip-flag

IP flag

ip-ttl

IPv4 TTL field

<ip_flag_ttl>

The value of IPv4 TTL field

any

Don't-care the value of IPv4 TTL field

ip-options

IPv4 options field

<ip_flag_options>

The value of IPv4 options field

any

Don't-care the value of IPv4 options field

ip-fragment

IPv4 fragment field

<ip_flag_fragment>

The value of IPv4 fragment field

any

Don't-care the value of IPv4 fragment field

ipv4-icmp

Frame type of IPv4 ICMP

sip

Source IP address field

<sipv4_icmp>
The value of source IP address field

any
Don't-care the value of source IP address field

dip
Destination IP address field

<dipv4_icmp>
The value of destination IP address field

any
Don't-care the value of destination IP address field

icmp-type
ICMP type field

<icmpv4_type>
The value of ICMP type field

any
Don't-care the value of ICMP type field

icmp-code
ICMP code field

<icmpv4_code>
The value of ICMP code field

any
Don't-care the value of ICMP code field

ip-flag
IP flag

ip-ttl
IPv4 TTL field

<ip_flag_icmp_ttl>
The value of IPv4 TTL field

any
Don't-care the value of IPv4 TTL field

ip-options
IPv4 options field

<ip_flag_icmp_options>
The value of IPv4 options field

any
Don't-care the value of IPv4 options field

ip-fragment
IPv4 fragment field

<ip_flag_icmp_fragment>
> The value of IPv4 fragment field

any
> Don't-care the value of IPv4 fragment field

ipv4-udp
> Frame type of IPv4 TCP

sip
> Source IP address field

<sipv4_udp>
> The value of source IP address field

any
> Don't-care the value of source IP address field

dip
> Destination IP address field

<dipv4_udp>
> The value of destination IP address field

any
> Don't-care the value of destination IP address field

sport
> UDP source port field

<sportv4_udp_start>
> The value of UDP source port field

to
> Port range

<sportv4_udp_end>
> The value of UDP source port field

any
> The value of UDP source port field

dport
> UDP destination port field

<dportv4_udp_start>
> The value of UDP destination port field

to
> Port range

<dportv4_udp_end>
> The value of UDP destination port field

any
> Don't-care the value of UDP destination port field

ip-flag

IP flag

ip-ttl

IPv4 TTL field

<ip_flag_udp_ttl>

The value of IPv4 TTL field

any

Don't-care the value of IPv4 TTL field

ip-options

IPv4 options field

<ip_flag_udp_options>

The value of IPv4 options field

any

Don't-care the value of IPv4 options field

ip-fragment

IPv4 fragment field

<ip_flag_udp_fragment>

The value of IPv4 fragment field

any

Don't-care the value of IPv4 fragment field

ipv4-tcp

Frame type of IPv4 TCP

sip

Source IP address field

<sipv4_tcp>

The value of source IP address field

any

Don't-care the value of source IP address field

dip

Destination IP address field

<dipv4_tcp>

The value of destination IP address field

any

Don't-care the value of destination IP address field

sport

TCP source port field

<sportv4_tcp_start>

The value of TCP source port field

to

Port range

<sportv4_tcp_end>

The value of TCP source port field

any

Don't-care the value of TCP source port field

dport

TCP destination port field

<dportv4_tcp_start>

The value of TCP destination Iport field

to

Port range

<dportv4_tcp_end>

The value of TCP destination Iport field

any

Don't-care the value of TCP destination port field

ip-flag

IP flag

ip-ttl

IPv4 TTL field

<ip_flag_tcp_ttl>

The value of IPv4 TTL field

any

Don't-care the value of IPv4 TTL field

ip-options

IPv4 options field

<ip_flag_tcp_options>

The value of IPv4 options field

any

Don't-care the value of IPv4 options field

ip-fragment

IPv4 fragment field

<ip_flag_tcp_fragment>

The value of IPv4 fragment field

any

Don't-care the value of IPv4 fragment field

tcp-flag

TCP flag

tcp-fin

TCP FIN field

<tcpv4_flag_fin>

The value of TCP FIN field

any

Don't-care the value of TCP FIN field

tcp-syn

TCP SYN field

<tcpv4_flag_syn>

The value of TCP SYN field

any

Don't-care the value of TCP SYN field

tcp-rst

TCP RST field

<tcpv4_flag_rst>

The value of TCP RST field

any

Don't-care the value of TCP RST field

tcp-psh

TCP PSH field

<tcpv4_flag_psh>

The value of TCP PSH field

any

Don't-care the value of TCP PSH field

tcp-ack

TCP ACK field

<tcpv4_flag_ack>

The value of TCP ACK field

any

Don't-care the value of TCP ACK field

tcp-urg

TCP URG field

<tcpv4_flag_urg>

The value of TCP URG field

any

Don't-care the value of TCP URG field

ipv6

Frame type of IPv6

next-header

IPv6 hop limiter field

<next_header>

The value of IPv6 hop limiter field

any

Don't-care the value of IPv6 next header field

sip

Source IP address field

<sipv6>

The value of source IP address field

sip-bitmask

The bitmask for IPv6 source address

<sipv6_bitmask>

The value of IPv6 source address bitmask

any

Don't-care the value of source IP address field

hop-limit

IPv6 hop limiter field

<hop_limit>

The value of IPv6 hop limiter field

any

Don't-care the value of IPv6 hop limiter field

ipv6-icmp

Frame type of IPv6 ICMP

sip

Source IP address field

<sipv6_icmp>

The value of source IP address field

sip-bitmask

The bitmask for IPv6 source address

<sipv6_bitmask_icmp>

The value of IPv6 source address bitmask

any

Don't-care the value of source IP address field

icmp-type

ICMP type field

<icmpv6_type>

The value of ICMP type field

any
> Don't-care the value of ICMP type field

icmp-code
> ICMP code field

<icmpv6_code>
> The value of ICMP code field

any
> Don't-care the value of ICMP code field

hop-limit
> IPv6 hop limiter field

<hop_limit_icmp>
> The value of IPv6 hop limiter field

any
> Don't-care the value of IPv6 hop limiter field

ipv6-udp
> Frame type of IPv6 UDP

sip
> Source IP address field

<sipv6_udp>
> The value of source IP address field

sip-bitmask
> The bitmask for IPv6 source address

<sipv6_bitmask_udp>
> The value of IPv6 source address bitmask

any
> Don't-care the value of source IP address field

sport
> UDP source port field

<sportv6_udp_start>
> The value of UDP source port field

to
> Port range

<sportv6_udp_end>
> The value of UDP source port field

any
> The value of UDP source port field

dport
> UDP destination port field

<dportv6_udp_start>

The value of UDP destination port field

to

Port range

<dportv6_udp_end>

The value of UDP destination port field

any

Don't-care the value of UDP destination port field

hop-limit

IPv6 hop limiter field

<hop_limit_udp>

The value of IPv6 hop limiter field

any

Don't-care the value of IPv6 hop limiter field

ipv6-tcp

Frame type of IPv6 TCP

sip

Source IP address field

<sipv6_tcp>

The value of source IP address field

sip-bitmask

The bitmask for IPv6 source address

<sipv6_bitmask_tcp>

The value of IPv6 source address bitmask

any

Don't-care the value of source IP address field

sport

TCP source port field

<sportv6_tcp_start>

The value of TCP source port field

to

Port range

<sportv6_tcp_end>

The value of TCP source port field

any

Don't-care the value of TCP source port field

dport

TCP destination port field

<dportv6_tcp_start>

    The value of TCP destination Iport field

to

    Port range

<dportv6_tcp_end>

    The value of TCP destination Iport field

any

    Don't-care the value of TCP destination port field

hop-limit

    IPv6 hop limiter field

<hop_limit_tcp>

    The value of IPv6 hop limiter field

any

    Don't-care the value of IPv6 hop limiter field

tcp-flag

    TCP flag

tcp-fin

    TCP FIN field

<tcpv6_flag_fin>

    The value of TCP FIN field

any

    Don't-care the value of TCP FIN field

tcp-syn

    TCP SYN field

<tcpv6_flag_syn>

    The value of TCP SYN field

any

    Don't-care the value of TCP SYN field

tcp-rst

    TCP RST field

<tcpv6_flag_rst>

    The value of TCP RST field

any

    Don't-care the value of TCP RST field

tcp-psh

    TCP PSH field

<tcpv6_flag_psh>

    The value of TCP PSH field

any

Don't-care the value of TCP PSH field

tcp-ack

TCP ACK field

<tcpv6_flag_ack>

The value of TCP ACK field

any

Don't-care the value of TCP ACK field

tcp-urg

TCP URG field

<tcpv6_flag_urg>

The value of TCP URG field

any

Don't-care the value of TCP URG field

action

Access list action

permit

Permit

deny

Deny

filter

Filter

switchport

Switchport

<filter_switch_port_list>

List of swithport ID

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<fliter_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

rate-limiter

Rate limiter

<rate_limiter_id>

Rate limiter ID

disable

Disable rate-limiter

evc-policer
> EVC policer

<evc_policer_id>
> EVC policer ID

disable
> Disable evc-policer

redirect
> Redirect frame to specific port

port-copy
> Copy frame to specific port

switchport
> Switchport

<redirect_switch_port_id>
> Swithport ID

<redirect_switch_port_list>
> List of swithport ID

interface
> Select an interface to configure

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<redirect_port_id>
> Port ID in the format of switch-no/port-no

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<redirect_port_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

disable
> Disable

mirror
> Mirror frame to destination mirror port

disable
> Disable mirror

logging
> Logging frame information. Note: The logging feature only works when the packet length is less than 1518 (without VLAN tags) and the System Log memory size and logging rate is limited.

disable
> Disable logging

shutdown

Shutdown incoming port. The shutdown feature only works when the packet length is less than 1518 (without VLAN tags).

disable

Disable shutdown

lookup

Second lookup

disable

Disable second lookup

Command Mode

Global Configuration Mode

Privilege level

15

----

access-list action

Syntax

```
access-list action { permit | deny }
```

Syntax Description

access-list

Access list

action

Access list action

permit

Permit

deny

Deny

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list evc-policer <evc_policer_id>

Syntax

```
access-list evc-policer <evc_policer_id>
```

Syntax Description

access-list
> Access list

evc-policer
> EVC policer

<evc_policer_id>
> EVC policer ID

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list logging

Syntax

```
access-list logging
```

Syntax Description

access-list
> Access list

logging
> Logging frame information. Note: The logging feature only works when the packet length is less than 1518 (without VLAN tags) and the System Log memory size and logging rate is limited.

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list mirror

Syntax

```
access-list mirror
```

Syntax Description

access-list

Access list

mirror

Mirror frame to destination mirror port

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list policy <policy_id>

Syntax

```
access-list policy <policy_id>
```

Syntax Description

access-list

Access list

policy

Policy

<policy_id>

Policy ID

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list port-state

Syntax

```
access-list port-state
```

Syntax Description

access-list
   Access list

port-state
   Re-enable shutdown port that was shutdown by access-list module

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list rate-limiter <rate_limiter_id>

Syntax

```
access-list rate-limiter <rate_limiter_id>
```

Syntax Description

access-list
   Access list

rate-limiter
   Rate limiter

<rate_limiter_id>
   Rate limiter ID

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list rate-limiter

Syntax

```
access-list rate-limiter [ <rate_limiter_list> ] { pps <pps_rate> | 100pps
<pps100_rate> | kpps <kpps_rate> | 100kbps <kpbs100_rate> }
```

Syntax Description

access-list

Access list

rate-limiter

Rate limiter

<rate_limiter_list>

Rate limiter ID

pps

Packets per second

<pps_rate>

Rate value

100pps

100 packets per second

<pps100_rate>

Rate value

kpps

1K packets per second

<kpps_rate>

Rate value

100kbps

100k bits per second

<kpbs100_rate>

Rate value

Command Mode

Global Configuration Mode

Privilege level

15

----

access-list shutdown

Syntax

```
access-list shutdown
```

Syntax Description

access-list

Access list

shutdown

Shutdown incoming port. The shutdown feature only works when the packet length is less than 1518 (without VLAN tags).

Command Mode

Port List Interface Mode

Privilege level

15

----

access-list

Syntax

```
access-list { redirect | port-copy } interface { <port_type> <port_type_id> |
<port_type> [ <port_type_list> ] }
```

Syntax Description

access-list

Access list

redirect

Redirect frame to specific port

port-copy

Copy frame to specific port

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_type_id>

Port ID in the format of switch-no/port-no

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_type_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

Port List Interface Mode

Privilege level

15

----

aggregation group <v_uint>

Syntax

```
aggregation group <v_uint>
```

Syntax Description

aggregation
> Create an aggregation

group
> Create an aggregation group

<v_uint>
> The aggregation group id

Command Mode

Port List Interface Mode

Privilege level

15

----

aggregation mode

Syntax

```
aggregation mode { [ smac ] [ dmac ] [ ip ] [ port ] }
```

Syntax Description

aggregation
> Aggregation mode

mode
> Traffic distribution mode

smac
> Source MAC affects the distribution

dmac

Destination MAC affects the distribution

ip

IP address affects the distribution

port

IP port affects the distribution

Command Mode

Global Configuration Mode

Privilege level

15

----

back-to-back

Syntax

```
back-to-back [ duration <bb_duration> ] [ count <bb_cnt> ]
```

Syntax Description

back-to-back

Enable back-to-back test and optionally set its parameters

duration

Set the duration of one trial

<bb_duration>

Duration - in milliseconds - of one trial.

count

Set the number of trials (bursts)

<bb_cnt>

Number of trials to run for every selected frame size.

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

banner

Syntax

```
banner [ motd ] <banner>
```

Syntax Description

banner

Define a login banner (maximum 255 characters)

motd

Set Message of the Day banner

<banner>

c banner-text c, where 'c' is a delimiting character

Command Mode

Global Configuration Mode

Privilege level

15

----

banner exec <banner>

Syntax

```
banner exec <banner>
```

Syntax Description

banner

Define a login banner

exec

Set EXEC process creation banner

<banner>

c banner-text c, where 'c' is a delimiting character

Command Mode

Global Configuration Mode

Privilege level

15

----

banner login <banner>

Syntax

```
banner login <banner>
```

Syntax Description

banner
>   Define a login banner

login
>   Set login banner

<banner>
>   c banner-text c, where 'c' is a delimiting character

Command Mode

Global Configuration Mode

Privilege level

15

----

broadcast <ip>

Syntax

```
broadcast <ip>
```

Syntax Description

broadcast
>   Broadcast address in use on the client's subnet

<ip>
>   Broadcast IP address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

clear access management statistics

Syntax

```
clear access management statistics
```

Syntax Description

clear
>   Reset functions

access

Access management

management

Access management configuration

statistics

Statistics data

Command Mode

User EXEC Mode

Privilege level

15

clear access-list ace statistics

Syntax

```
clear access-list ace statistics
```

Syntax Description

clear

Reset functions

access-list

Access list

ace

Access list entry

statistics

Traffic statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear dot1x statistics

Syntax

```
clear dot1x statistics [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

clear

clear

dot1x

dot1x

statistics

statistics

interface

interface

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

clear eps <inst> wtr

Syntax

```
clear eps <inst> wtr
```

Syntax Description

clear

Clear WTR.

eps

Ethernet Protection Switching.

<inst>

The EPS instance number.

wtr

Clear active WTR.

Command Mode

User EXEC Mode

Privilege level

15

----

clear erps

Syntax

```
clear erps [ <groups> ] statistics
```

Syntax Description

clear

clear

erps

erps

<groups>

<groups>

statistics

statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear evc statistics

Syntax

```
clear evc statistics { [ <evc_id> | all ] } [ ece [ <ece_id> ] ] [ interface
<port_type> [ <port_list> ] ]
```

Syntax Description

clear

Clear

evc

Ethernet Virtual Connections

statistics

Statistic counters

<evc_id>

EVC identifier

all

Process all EVCs

ece

>   EVC Control Entry

<ece_id>

>   ECE idenfifier

interface

>   Interface

<port_type>

>   Port type in Fast, Giga or Tengiga ethernet

<port_list>

>   List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear ip arp

Syntax

```
clear ip arp
```

Syntax Description

clear

>   clear

ip

>   ip

arp

>   arp

Command Mode

User EXEC Mode

Privilege level

0

----

clear ip dhcp detailed statistics

Syntax

```
clear ip dhcp detailed statistics { server | client | snooping | relay | helper
```

```
        | all } [ interface <port_type> [ <in_port_list> ] ]
```

Syntax Description

clear
> Reset functions

ip
> Interface Internet Protocol config commands

dhcp
> Dynamic Host Configuration Protocol

detailed
> Detailed statistics

statistics
> Traffic statistics

server
> DHCP server

client
> DHCP client

snooping
> DHCP snooping

relay
> DHCP relay

helper
> DHCP normal L2 or L3 forward

all
> Clear all DHCP related statistics

interface
> Select an interface to configure

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<in_port_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear ip dhcp relay statistics

Syntax

```
clear ip dhcp relay statistics
```

Syntax Description

clear
Reset functions

ip
Interface Internet Protocol config commands

dhcp
Dynamic Host Configuration Protocol

relay
DHCP relay agent configuration

statistics
Traffic statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear ip dhcp server binding <ip>

Syntax

```
clear ip dhcp server binding <ip>
```

Syntax Description

clear
Reset functions

ip
IP protocol

dhcp
Delete items from the DHCP database

server
Miscellaneous DHCP server information

binding
Clear DHCP binding

<ip>
   IP address of the binding

Command Mode
User EXEC Mode

Privilege level
13

----

clear ip dhcp server binding

Syntax
```
clear ip dhcp server binding { automatic | manual | expired }
```

Syntax Description

clear
   Reset functions

ip
   IP protocol

dhcp
   Delete items from the DHCP database

server
   Miscellaneous DHCP server information

binding
   Clear DHCP binding

automatic
   Clear automatic bindings to expired bindings

manual
   Clear manual bindings to expired bindings

expired
   Clear expired bindings for free

Command Mode
User EXEC Mode

Privilege level
13

----

clear ip dhcp server statistics

Syntax

```
clear ip dhcp server statistics
```

Syntax Description

clear

Reset functions

ip

IP protocol

dhcp

Delete items from the DHCP database

server

Miscellaneous DHCP server information

statistics

DHCP server statistics

Command Mode

User EXEC Mode

Privilege level

13

----

clear ip dhcp snooping statistics

Syntax

```
clear ip dhcp snooping statistics [ interface <port_type> [ <in_port_list> ] ]
```

Syntax Description

clear

Reset functions

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

statistics

Traffic statistics

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear ip igmp snooping

Syntax

```
clear ip igmp snooping [ vlan <v_vlan_list> ] statistics
```

Syntax Description

clear

clear

ip

ip

igmp

igmp

snooping

snooping

vlan

vlan

<v_vlan_list>

<v_vlan_list>

statistics

statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear ip statistics

Syntax

```
clear ip statistics [ system ] [ interface vlan <v_vlan_list> ] [ icmp ] [
icmp-msg <type> ]
```

Syntax Description

clear
Reset functions

ip
Interface Internet Protocol config commands

statistics
Traffic statistics

system
IPv4 system traffic

interface
Select an interface to configure

vlan
IPv4 interface traffic

<v_vlan_list>
VLAN identifier(s): VID

icmp
IPv4 ICMP traffic

icmp-msg
IPv4 ICMP traffic for designated message type

<type>
ICMP message type ranges from 0 to 255

Command Mode
User EXEC Mode

Privilege level
15

----

clear ipv6 mld snooping

Syntax

```
clear ipv6 mld snooping [ vlan <v_vlan_list> ] statistics
```

Syntax Description

clear

    clear

ipv6

    ipv6

mld

    mld

snooping

    snooping

vlan

    vlan

<v_vlan_list>

    <v_vlan_list>

statistics

    statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear ipv6 neighbors

Syntax

    clear ipv6 neighbors

Syntax Description

clear

    Reset functions

ipv6

    IPv6 configuration commands

neighbors

    IPv6 neighbors

Command Mode

User EXEC Mode

Privilege level

15

----

clear ipv6 statistics

Syntax

```
clear ipv6 statistics [ system ] [ interface vlan <v_vlan_list> ] [ icmp ] [
icmp-msg <type> ]
```

Syntax Description

clear

Reset functions

ipv6

IPv6 configuration commands

statistics

Traffic statistics

system

IPv6 system traffic

interface

Select an interface to configure

vlan

IPv6 interface traffic

<v_vlan_list>

VLAN identifier(s): VID

icmp

IPv6 ICMP traffic

icmp-msg

IPv6 ICMP traffic for designated message type

<type>

ICMP message type ranges from 0 to 255

Command Mode

User EXEC Mode

Privilege level

15

----

clear lacp statistics

Syntax

```
clear lacp statistics
```

Syntax Description

clear

Clear LACP statistics

lacp

Clear LACP statistics

statistics

Clear all LACP statistics

Command Mode

User EXEC Mode

Privilege level

15

----

clear link-oam statistics

Syntax

```
clear link-oam statistics [ interface <port_type> [ <plist> ] ]
```

Syntax Description

clear

Clear

link-oam

Clear Link OAM statistics

statistics

Clear Rx/Tx counters

interface

Clear Link OAM statistic on a specific interface or all interfaces.

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<plist>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear lldp statistics

Syntax

```
clear lldp statistics
```

Syntax Description

clear

Clears LLDP statistics.

lldp

Clears LLDP statistics.

statistics

Clears LLDP statistics.

Command Mode

User EXEC Mode

Privilege level

0

----

clear logging

Syntax

```
clear logging [ info ] [ warning ] [ error ] [ switch <switch_list> ]
```

Syntax Description

clear

Reset functions

logging

Syslog

info

Information

warning

Warning

error

Error

switch

Switch

<switch_list>

List of switch ID, ex, 1,3-5,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear mac address-table

Syntax

```
clear mac address-table
```

Syntax Description

clear

Clear command

mac

MAC Address Table

address-table

Flush MAC Address table

Command Mode

User EXEC Mode

Privilege level

15

----

clear mep <inst>

Syntax

```
clear mep <inst> { lm | dm | tst }
```

Syntax Description

clear

clear

mep

mep

<inst>

<inst>

lm

lm

dm

> dm

tst

> tst

Command Mode

User EXEC Mode

Privilege level

15

----

clear mvr

Syntax

```
clear mvr [ vlan <v_vlan_list> | name <mvr_name> ] statistics
```

Syntax Description

clear

> Reset functions

mvr

> Multicast VLAN Registration configuration

vlan

> MVR multicast vlan

<v_vlan_list>

> MVR multicast VLAN list

name

> MVR multicast name

<mvr_name>

> MVR multicast VLAN name

statistics

> Running MVR protocol counters

Command Mode

User EXEC Mode

Privilege level

15

----

clear sflow statistics

Syntax

```
clear sflow statistics { receiver [ <receiver_index_list> ] | samplers [
interface [ <samplers_list> ] <port_type> [ <v_port_type_list> ] ] }
```

Syntax Description

clear

clear

sflow

sflow

statistics

statistics

receiver

receiver

<receiver_index_list>

<receiver_index_list>

samplers

samplers

interface

interface

<samplers_list>

<samplers_list>

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

clear spanning-tree

Syntax

```
clear spanning-tree { { statistics [ interface <port_type> [ <v_port_type_list>
] ] } | { detected-protocols [ interface <port_type> [ <v_port_type_list_1> ] ]
```

```
} }
```

Syntax Description

clear

Reset functions

spanning-tree

STP Bridge

statistics

STP statistics

interface

Choose port

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

detected-protocols

Set the STP migration check

interface

Choose port

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list_1>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

clear statistics

Syntax

```
clear statistics [ interface ] <port_type> [ <v_port_type_list> ]
```

Syntax Description

clear

Clear

statistics

Clear statistics for one or more given interfaces

interface

Interface

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

client-identifier

Syntax

```
client-identifier { fqdn <identifier> | mac-address <mac> }
```

Syntax Description

client-identifier

Client identifier

fqdn

FQDN type of client identifier

<identifier>

FQDN in 128 characters

mac-address

MAC address type of client identifier

<mac>

MAC address of client

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

client-name <host_name>

Syntax

```
client-name <host_name>
```

Syntax Description

client-name

Client host name

<host_name>

Client hsot name in 32 characters

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

clock summer-time <word16> date

Syntax

```
clock summer-time <word16> date [ <start_month_var> <start_date_var>
<start_year_var> <start_hour_var> <end_month_var> <end_date_var> <end_year_var>
<end_hour_var> [ <offset_var> ] ]
```

Syntax Description

clock

Configure time-of-day clock

summer-time

Configure summer (daylight savings) time

<word16>

name of time zone in summer

date

Configure absolute summer time

<start_month_var>

Month to start

<start_date_var>

Date to start

<start_year_var>

Year to start

<start_hour_var>

Time to start (hh:mm)

<end_month_var>

Month to end

<end_date_var>

Date to end

<end_year_var>

Year to end

<end_hour_var>

Time to end (hh:mm)

<offset_var>

Offset to add in minutes

Command Mode

Global Configuration Mode

Privilege level

13

----

clock summer-time <word16> recurring

Syntax

```
clock summer-time <word16> recurring [ <start_week_var> <start_day_var>
<start_month_var> <start_hour_var> <end_week_var> <end_day_var> <end_month_var>
<end_hour_var> [ <offset_var> ] ]
```

Syntax Description

clock

Configure time-of-day clock

summer-time

Configure summer (daylight savings) time

<word16>

name of time zone in summer

recurring

Configure recurring summer time

<start_week_var>

Week number to start

<start_day_var>

Weekday to start

<start_month_var>

Month to start

<start_hour_var>

Time to start (hh:mm)

<end_week_var>

Week number to end

<end_day_var>

Weekday to end

<end_month_var>

Month to end

<end_hour_var>

Time to end (hh:mm)

<offset_var>

Offset to add in minutes

Command Mode
Global Configuration Mode

Privilege level
13

----

clock timezone <word_var> <hour_var>

Syntax
```
clock timezone <word_var> <hour_var> [ <minute_var> ]
```

Syntax Description
clock

Configure time-of-day clock

timezone

Configure time zone

<word_var>

name of time zone

<hour_var>

Hours offset from UTC

<minute_var>

Minutes offset from UTC

Command Mode
Global Configuration Mode

Privilege level
13

----

configure terminal

Syntax

```
configure terminal
```

Syntax Description

configure

Enter configuration mode

terminal

Configure from the terminal

Command Mode

User EXEC Mode

Privilege level

15

----

copy

Syntax

```
copy { startup-config | running-config | <source_path> } { startup-config |
running-config | <destination_path> } [ syntax-check ]
```

Syntax Description

copy

Copy from source to destination

startup-config

Startup configuration

running-config

Currently running configuration

<source_path>

File in FLASH or on TFTP server

startup-config

Startup configuration

running-config

Currently running configuration

<destination_path>

File in FLASH or on TFTP server

syntax-check
> Perform syntax check on source configuration

Command Mode
User EXEC Mode

Privilege level
15

----

debug prompt <debug_prompt>

Syntax
```
debug prompt <debug_prompt>
```

Syntax Description

debug
> Debugging functions

prompt
> Set prompt for testing

<debug_prompt>
> Word for prompt in 32 char's

Command Mode
User EXEC Mode

Privilege level
0

----

default access-list rate-limiter

Syntax
```
default access-list rate-limiter [ <rate_limiter_list> ]
```

Syntax Description

default
> Set a command to its defaults

access-list
> Access list

rate-limiter
> Rate limiter

<rate_limiter_list>
> Rate limiter ID

Command Mode

Global Configuration Mode

Privilege level

15

----

default range <entry_name>

Syntax

```
default range <entry_name>
```

Syntax Description

default
> Set a command to its defaults

range
> A range of IPv4/IPv6 multicast addresses for the profile

<entry_name>
> Range entry name in 16 char's

Command Mode

IPMC Profile Mode

Privilege level

15

----

default-router <ip>

Syntax

```
default-router <ip> [ <ip1> [ <ip2> [ <ip3> ] ] ]
```

Syntax Description

default-router
> Default routers

<ip>
> Router's IP address

<ip1>
> Router's IP address

<ip2>
Router's IP address

<ip3>
Router's IP address

Command Mode
DHCP Pool Configuration Mode

Privilege level
13

----

delete <path>

Syntax
    delete <path>

Syntax Description

delete
Delete one file in flash: file system

<path>
Name of file to delete

Command Mode
User EXEC Mode

Privilege level
15

----

description <dscr>

Syntax
    description <dscr>

Syntax Description

description
Add a description to profile

<dscr>
Profile description.

Command Mode
RFC2544 Profile Mode

Privilege level

15

----

description <profile_desc>

Syntax

```
description <profile_desc>
```

Syntax Description

description

Additional description about the profile in 64 char's

<profile_desc>

Description for the designated IPMC filtering profile

Command Mode

IPMC Profile Mode

Privilege level

15

----

dir

Syntax

```
dir
```

Syntax Description

dir

Directory of all files in flash: file system

Command Mode

User EXEC Mode

Privilege level

15

----

disable

Syntax

```
disable [ <new_priv> ]
```

Syntax Description

disable

   Turn off privileged commands

<new_priv>

   <new_priv>

Command Mode

User EXEC Mode

Privilege level

0

----

dmac <dmac>

Syntax

   dmac <dmac>

Syntax Description

dmac

   Set the destination MAC address of all transmitted PDUs. This should be the MAC address of the peer

<dmac>

   MAC address of peer.

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

dns-server <ip>

Syntax

   dns-server <ip> [<ip1> [<ip2> [<ip3>]]]

Syntax Description

dns-server

   DNS servers

<ip>

   Server's IP address

\<ip1\>
> Server's IP address

\<ip2\>
> Server's IP address

\<ip3\>
> Server's IP address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

do \<command\>

Syntax

> do \<command\>

Syntax Description

do
> To run exec commands in config mode

\<command\>
> Exec Command

Command Mode

Global Configuration Mode

Privilege level

0

----

domain-name \<domain_name\>

Syntax

> domain-name \<domain_name\>

Syntax Description

domain-name
> Domain name

\<domain_name\>
> Domain name

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

dot1x authentication timer inactivity <v_10_to_100000>

Syntax

```
dot1x authentication timer inactivity <v_10_to_100000>
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

authentication

authentication

timer

timer

inactivity

Time in seconds between check for activity on successfully authenticated MAC addresses.

<v_10_to_100000>

seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x authentication timer re-authenticate <v_1_to_3600>

Syntax

```
dot1x authentication timer re-authenticate <v_1_to_3600>
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

authentication

Authentication

timer

timer

re-authenticate

The period between re-authentication attempts in seconds

<v_1_to_3600>

seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x feature

Syntax

```
dot1x feature { [ guest-vlan ] [ radius-qos ] [ radius-vlan ] }
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

feature

Globally enables/disables a dot1x feature functionality

guest-vlan

Globally enables/disables state of guest-vlan

radius-qos

Globally enables/disables state of RADIUS-assigned QoS.

radius-vlan

Globally enables/disables state of RADIUS-assigned VLAN.

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x guest-vlan

Syntax

```
dot1x guest-vlan
```

Syntax Description

dot1x
> IEEE Standard for port-based Network Access Control

guest-vlan
> Enables/disables guest VLAN

Command Mode

Port List Interface Mode

Privilege level

15

----

dot1x guest-vlan <value>

Syntax

```
dot1x guest-vlan <value>
```

Syntax Description

dot1x
> IEEE Standard for port-based Network Access Control

guest-vlan
> Guest VLAN

<value>
> Guest VLAN ID used when entering the Guest VLAN.

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x guest-vlan supplicant

Syntax

```
dot1x guest-vlan supplicant
```

Syntax Description

dot1x
> IEEE Standard for port-based Network Access Control

guest-vlan

Guest VLAN

supplicant

The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame has been received on the port for the life-time of the port.

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x initialize

Syntax

```
dot1x initialize [ interface <port_type> [ <plist> ] ]
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

initialize

Force re-authentication immediately

interface

Interface

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<plist>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

dot1x max-reauth-req <value>

Syntax

```
dot1x max-reauth-req <value>
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

max-reauth-req

The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN

<value>

number of times

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x port-control

Syntax

```
dot1x port-control { force-authorized | force-unauthorized | auto | single |
multi | mac-based }
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

port-control

Sets the port security state.

force-authorized

Port access is allowed

force-unauthorized

Port access is not allowed

auto

Port-based 802.1X Authentication

single

Single Host 802.1X Authentication

multi

>   Multiple Host 802.1X Authentication

mac-based

>   Switch authenticates on behalf of the client

Command Mode

Port List Interface Mode

Privilege level

15

----

dot1x radius-qos

Syntax

```
dot1x radius-qos
```

Syntax Description

dot1x

>   IEEE Standard for port-based Network Access Control

radius-qos

>   Enables/disables per-port state of RADIUS-assigned QoS.

Command Mode

Port List Interface Mode

Privilege level

15

----

dot1x radius-vlan

Syntax

```
dot1x radius-vlan
```

Syntax Description

dot1x

>   IEEE Standard for port-based Network Access Control

radius-vlan

>   Enables/disables per-port state of RADIUS-assigned VLAN.

Command Mode

Port List Interface Mode

Privilege level

15

----

dot1x re-authenticate

Syntax

```
dot1x re-authenticate
```

Syntax Description

dot1x

 IEEE Standard for port-based Network Access Control

re-authenticate

 Refresh (restart) 802.1X authentication process.

Command Mode

Port List Interface Mode

Privilege level

15

----

dot1x re-authentication

Syntax

```
dot1x re-authentication
```

Syntax Description

dot1x

 IEEE Standard for port-based Network Access Control

re-authentication

 Set Re-authentication state

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x system-auth-control

Syntax

```
dot1x system-auth-control
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

system-auth-control

Set the global NAS state

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x timeout quiet-period <v_10_to_1000000>

Syntax

```
dot1x timeout quiet-period <v_10_to_1000000>
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

timeout

timeout

quiet-period

Time in seconds before a MAC-address that failed authentication gets a new authentication chance.

<v_10_to_1000000>

seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

dot1x timeout tx-period <v_1_to_65535>

Syntax

```
dot1x timeout tx-period <v_1_to_65535>
```

Syntax Description

dot1x

IEEE Standard for port-based Network Access Control

timeout

timeout

tx-period

the time between EAPOL retransmissions.

<v_1_to_65535>

seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

duplex

Syntax

```
duplex { half | full | auto [ half | full ] }
```

Syntax Description

duplex

Interface duplex

half

Forced half duplex.

full

Forced full duplex.

auto

Auto negotiation of duplex mode.

half

Advertise half duplex.

full

Advertise full duplex.

Command Mode

Port List Interface Mode

Privilege level

15

----

dwell-time <dwell>

Syntax

```
dwell-time <dwell>
```

Syntax Description

dwell-time

Controls the number of seconds that the execution pauses after each trial before reading counters and status from hardware

<dwell>

Dwell time measured in seconds

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

editing

Syntax

```
editing
```

Syntax Description

editing

Enable command line editing

Command Mode

Line Configuration Mode

Privilege level

13

----

enable

Syntax

```
enable [ <new_priv> ]
```

Syntax Description

enable

Turn on privileged commands

<new_priv>

Choose privileged level

Command Mode

User EXEC Mode

Privilege level

0

----

enable password

Syntax

```
enable password [ level <priv> ] <password>
```

Syntax Description

enable

Modify enable password parameters

password

Assign the privileged level clear password

level

Set exec level password

<priv>

Level number

<password>

The UNENCRYPTED (cleartext) password

Command Mode

Global Configuration Mode

Privilege level

15

----

enable secret

Syntax

```
enable secret { 0 | 5 } [ level <priv> ] <password>
```

Syntax Description

enable

Modify enable password parameters

secret

Assign the privileged level secret

0

Specifies an UNENCRYPTED password will follow

5

Specifies an ENCRYPTED secret will follow (HMAC-MD5 encoded)

level

Set exec level password

<priv>

Level number

<password>

Password

Command Mode

Global Configuration Mode

Privilege level

15

----

end

Syntax

```
end
```

Syntax Description

end

Go back to EXEC mode

Command Mode

Global Configuration Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

Go back to EXEC mode

Command Mode

VLAN Configuration Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

Go back to EXEC mode

Command Mode

Port List Interface Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

    Go back to EXEC mode

Command Mode

VLAN Interface Mode

Privilege level

0

----

end

Syntax

    end

Syntax Description

end

    Go back to EXEC mode

Command Mode

Line Configuration Mode

Privilege level

0

----

end

Syntax

    end

Syntax Description

end

    Go back to EXEC mode

Command Mode

IPMC Profile Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

Go back to EXEC mode

Command Mode

SNMP Server Host Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

Go back to EXEC mode

Command Mode

STP Aggregation Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end

Go back to EXEC mode

Command Mode

DHCP Pool Configuration Mode

Privilege level

0

----

end

Syntax

end

Syntax Description

end
Go back to EXEC mode

Command Mode

RFC2544 Profile Mode

Privilege level

0

----

eps <inst> 1plus1

Syntax

eps <inst> 1plus1 { bidirectional | { unidirectional [aps] } }

Syntax Description

eps
Ethernet Protection Switching

<inst>
The EPS instance number.

1plus1
EPS 1+1 architecture.

bidirectional
EPS 1+1 bidirectional protection type.

unidirectional
EPS 1+1 unidirectional protection type.

aps
EPS 1+1 unidirectional with APS protection type.

Command Mode

Global Configuration Mode

Privilege level

15

----

eps <inst> command

Syntax

```
eps <inst> command { lockout | forced | manualp | manualw | exercise | freeze |
lockoutlocal }
```

Syntax Description

eps

Ethernet Protection Switching

<inst>

The EPS instance number.

command

EPS command.

lockout

Lockout of protection.

forced

Force switch normal traffic to protection.

manualp

Manual switch normal traffic to protection.

manualw

Manual switch normal traffic to working.

exercise

Exercise signal.

freeze

Local Freeze of EPS.

lockoutlocal

Local lockout of EPS.

Command Mode

Global Configuration Mode

Privilege level

15

----

eps <inst> domain

Syntax

```
eps <inst> domain { port | evc } architecture { 1plus1 | 1for1 } work-flow {
<flow_w> | <port_type> <port_w> } protect-flow { <flow_p> | <port_type>
<port_p> }
```

Syntax Description

eps

Ethernet Protection Switching.

<inst>

The EPS instance number.

domain

The domain of the EPS.

port

This EPS is protecting in the Port domain.

evc

This EPS is protecting in the EVC domain.

architecture

The EPS architecture.

1plus1

The architecture is 1 plus 1.

1for1

The architecture is 1 for 1.

work-flow

The working flow instance that the EPS is related to.

<flow_w>

The working flow instance number when not in the port domain.

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_w>

Port ID in the format of switch-no/port-no

protect-flow

The protecting flow instance that the EPS is related to.

<flow_p>

The protecting flow instance number when not in the port domain.

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_p>
> Port ID in the format of switch-no/port-no

Command Mode

Global Configuration Mode

Privilege level

15

----

eps <inst> holdoff <hold>

Syntax

```
eps <inst> holdoff <hold>
```

Syntax Description

eps
> Ethernet Protection Switching

<inst>
> The EPS instance number.

holdoff
> Hold off timer.

<hold>
> The hold off timer value in 100 ms. Max 10 sec.

Command Mode

Global Configuration Mode

Privilege level

15

--eps <inst> mep-work <mep_w> mep-protect <mep_p> mep-

----

aps <mep_aps>

Syntax

```
eps <inst> mep-work <mep_w> mep-protect <mep_p> mep-aps <mep_aps>
```

Syntax Description

eps

Ethernet Protection Switching

<inst>

The EPS instance number.

mep-work

Working MEP instance.

<mep_w>

Working MEP instance number.

mep-protect

Protecting MEP instance.

<mep_p>

Protecting MEP instance number.

mep-aps

APS MEP instance.

<mep_aps>

APS MEP instance number.

Command Mode

Global Configuration Mode

Privilege level

15

----

eps <inst> revertive

Syntax

```
eps <inst> revertive { 10s | 30s | 5m | 6m | 7m | 8m | 9m | 10m | 11m | 12m }
```

Syntax Description

eps

Ethernet Protection Switching

<inst>

The EPS instance number.

revertive

Revertive EPS.

10s

WTR is 10 sec.

30s

WTR is 30 sec.

5m

WTR is 5 min.

6m

WTR is 6 min.

7m

WTR is 7 min.

8m

WTR is 8 min.

9m

WTR is 9 min.

10m

WTR is 10 min.

11m

WTR is 11 min.

12m

WTR is 12 min.

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> command

Syntax

```
erps <group> command { force | manual | clear } { port0 | port1 }
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

command

Administrative Command

force

Force command

manual

> Manual command

clear

> Clear command

port0

> ERPS Port 0 interface

port1

> ERPS Port 1 interface

Command Mode

User EXEC Mode

Privilege level

15

----

erps <group> guard <guard_time_ms>

Syntax

```
erps <group> guard <guard_time_ms>
```

Syntax Description

erps

> Ethernet Ring Protection Switching

<group>

> ERPS group number

guard

> Guard

<guard_time_ms>

> Guard time in ms

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> holdoff <holdoff_time_ms>

Syntax

```
erps <group> holdoff <holdoff_time_ms>
```

Syntax Description

erps
> Ethernet Ring Protection Switching

<group>
> ERPS group number

holdoff
> Holdoff

<holdoff_time_ms>
> Holdoff time in ms

Command Mode

Global Configuration Mode

Privilege level

15

---erps <group> major
port0 interface <port_type> <port0>

---

port1 interface <port_type> <port1>

Syntax

```
erps <group> major port0 interface <port_type> <port0> port1 interface
<port_type> <port1> [ interconnect ]
```

Syntax Description

erps
> Ethernet Ring Protection Switching

<group>
> ERPS group number

major
> Major ring

port0
> ERPS Port 0 interface

interface
> Ethernet interface

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<port0>

Port ID in the format of switch-no/port-no

port1

ERPS Port 1 interface

interface

Ethernet interface

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port1>

Port ID in the format of switch-no/port-no

interconnect

Major ring is interconnected

Command Mode

Global Configuration Mode

Privilege level

15

--**erps <group> mep port0
sf <p0_sf> aps <p0_aps> port1 sf**

<p1_sf> aps <p1_aps>

Syntax

```
erps <group> mep port0 sf <p0_sf> aps <p0_aps> port1 sf <p1_sf> aps <p1_aps>
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

mep

MEP

port0

ERPS Port 0 interface

sf

Signal Fail

<p0_sf>

Index of Port 0 SignalFail MEP

aps

Automatic Protection Switching

<p0_aps>

Index of Port 0 APS MEP

port1

ERPS Port 1 interface

sf

Signal Fail

<p1_sf>

Index of Port 1 SignalFail MEP

aps

Automatic Protection Switching

<p1_aps>

Index of Port 1 APS MEP

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> revertive <wtr_time_minutes>

Syntax

```
erps <group> revertive <wtr_time_minutes>
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

revertive

Revertive

<wtr_time_minutes>

Wait-to-restore time in minutes

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> rpl

Syntax

```
erps <group> rpl { owner | neighbor } { port0 | port1 }
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

rpl

Ring Protection Link

owner

Owner role

neighbor

Neighbor role

port0

ERPS Port 0 interface

port1

ERPS Port 1 interface

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> sub port0 interface <port_type> <port0>

Syntax

```
erps <group> sub port0 interface <port_type> <port0> { { port1 interface
<port_type> <port1> } | { interconnect <major_ring_id> [ virtual-channel ] } }
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>
ERPS group number

sub
Sub-ring

port0
ERPS Port 0 interface

interface
Ethernet interface

<port_type>
Port type in Fast, Giga or Tengiga ethernet

<port0>
Port ID in the format of switch-no/port-no

port1
ERPS Port 1 interface

interface
Ethernet interface

<port_type>
Port type in Fast, Giga or Tengiga ethernet

<port1>
Port ID in the format of switch-no/port-no

interconnect
Sub-ring is interconnected

<major_ring_id>
Major ring group number

virtual-channel
Enable virtual channel for sub-ring

Command Mode
Global Configuration Mode

Privilege level
15

----

erps <group> topology-change propagate

Syntax
```
erps <group> topology-change propagate
```

Syntax Description

erps
> Ethernet Ring Protection Switching

<group>
> ERPS group number

topology-change
> Topology Change

propagate
> Propagate

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> version

Syntax

```
erps <group> version { 1 | 2 }
```

Syntax Description

erps
> Ethernet Ring Protection Switching

<group>
> ERPS group number

version
> Version

1
> ERPS version 1

2
> ERPS version 2

Command Mode

Global Configuration Mode

Privilege level

15

----

erps <group> vlan

Syntax

```
erps <group> vlan { none | [ add | remove ] <vlans> }
```

Syntax Description

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

vlan

VLAN

none

Do not include any VLANs

add

Add to set of included VLANs

remove

Remove from set of included VLANs

<vlans>

List of VLANs

Command Mode

Global Configuration Mode

Privilege level

15

----

evc

Syntax

```
evc [ update ] <evc_id> { [ vid <evc_vid> ] } [ ivid <ivid> ] [ interface
<port_type> [ <port_list> ] ] [ learning [ disable ] ] [ policer { <policer_id>
| none | discard } ] [ inner-tag add { [ type { none | c-tag | s-tag | s-
custom-tag } ] [ vid-mode { normal | tunnel } ] [ vid <it_add_vid> ] [ preserve
[ disable ] ] [ pcp <it_add_pcp> ] [ dei <it_add_dei> ] } ] [ outer-tag add vid
<ot_add_vid> ]
```

Syntax Description

evc

Ethernet Virtual Connections

update

Update existing entry

<evc_id>

EVC identifier

vid

Setup EVC VLAN ID

<evc_vid>

EVC VLAN ID

ivid

Setup internal EVC VLAN ID

<ivid>

Internal VLAN ID

interface

Setup NNI

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

learning

Setup learning

disable

Disable learning

policer

Policer (ingress bandwith profile)

<policer_id>

Policer ID

none

Map to policer allowing all frames

discard

Map to policer discarding all frames

inner-tag

Setup inner tag options

add

Setup inner tag add properties

type

Setup added tag type

none

No tag added

c-tag
> Add C-tag

s-tag
> Add S-tag

s-custom-tag
> Add custom S-tag

vid-mode
> Setup inner tag VLAN ID mode

normal
> Use EVC VLAN ID in outer tag

tunnel
> Use EVC VLAN ID in inner tag

vid
> Setup added tag VLAN ID

<it_add_vid>
> Added tag VLAN ID

preserve
> Setup tag PCP/DEI preservation

disable
> Disable PCP/DEI preservation

pcp
> Setup added tag PCP

<it_add_pcp>
> Added tag PCP

dei
> Setup added tag DEI

<it_add_dei>
> Added tag DEI

outer-tag
> Setup outer tag options

add
> Setup outer tag add properties

vid
> Setup added tag VLAN ID

<ot_add_vid>
> Added tag VLAN ID

Command Mode

Global Configuration Mode

Privilege level

15

----

evc

Syntax

```
evc [ update ] [ dei { colored | fixed } ] [ tag { inner | outer } ] [ key {
double-tag | normal | ip-addr | mac-ip-addr } ] [ key-advanced { double-tag |
normal | ip-addr | mac-ip-addr } ] [ addr { source | destination } ] [ addr-
advanced { source | destination } ] [ l2cp { [ peer [ <l2cp_peer_list> ] ] [
forward [ <l2cp_forward_list> ] ] [ discard [ <l2cp_discard_list> ] ] } ]
```

Syntax Description

evc

Ethernet Virtual Connections

update

Update existing entry

dei

Setup DEI mode

colored

Allow policer to set DEI

fixed

Use classified DEI

tag

Setup tag match mode

inner

Match inner tag

outer

Match outer tag

key

Setup basic (first) ingress lookup key type

double-tag

Match outer tag, inner tag, IP protocol, DSCP and DPORT

normal

Match outer tag, SMAC/DMAC, IP protocol, DSCP, SIP/DIP, SPORT and DPORT

ip-addr

Match outer tag, SMAC/DMAC, IP protocol, DSCP, SIP and DIP

mac-ip-addr

Match outer tag, inner tag, SMAC, DMAC, IP protocol, DSCP, SIP, DIP, SPORT and DPORT

key-advanced

Setup advanced (second) ingress lookup key type

double-tag

Match outer tag, inner tag, IP protocol, DSCP and DPORT

normal

Match outer tag, SMAC/DMAC, IP protocol, DSCP, SIP/DIP, SPORT and DPORT

ip-addr

Match outer tag, SMAC/DMAC, IP protocol, DSCP, SIP and DIP

mac-ip-addr

Match outer tag, inner tag, SMAC, DMAC, IP protocol, DSCP, SIP, DIP, SPORT and DPORT

addr

Setup address match mode

source

Match SMAC and SIP

destination

Match DMAC and DIP

addr-advanced

Setup advanced (second) ingress lookup address match mode

source

Match SMAC and SIP

destination

Match DMAC and DIP

l2cp

Setup L2CP forwarding

peer

Redirect L2CP frames to local protocol entity

<l2cp_peer_list>

Select BPDU addresses (0-15) and GARP addresses (16-31)

forward

Allow forwarding of L2CP frames

<l2cp_forward_list>

Select BPDU addresses (0-15) and GARP addresses (16-31)

discard

Discard L2CP frames

<l2cp_discard_list>

Select BPDU addresses (0-15) and GARP addresses (16-31)

Command Mode

Port List Interface Mode

Privilege level

15

----

evc ece

Syntax

```
evc ece [ update ] <ece_id> [ next { <ece_id_next> | last } ] [ lookup { basic
| advanced } ] [ interface <port_type> [ <port_list> ] ] [ smac { <smac> | any
} ] [ dmac { <dmac> | unicast | multicast | broadcast | any } ] [ outer-tag { [
match { [ type { untagged | tagged | c-tagged | s-tagged | any } ] [ vid {
<ot_match_vid> | any } ] [ pcp { <ot_match_pcp> | any } ] [ dei {
<ot_match_dei> | any } ] } ] [ add { [ mode { enable | disable } ] [ vid
<ot_add_vid> ] [ preserve [ disable ] ] [ pcp-mode { classified | fixed |
mapped } ] [ pcp <ot_add_pcp> ] [ dei-mode { classified | fixed | dp } ] [ dei
<ot_add_dei> ] } ] } ] [ inner-tag { [ match { [ type { untagged | tagged | c-
tagged | s-tagged | any } ] [ vid { <it_match_vid> | any } ] [ pcp {
<it_match_pcp> | any } ] [ dei { <it_match_dei> | any } ] } ] [ add { [ type {
none | c-tag | s-tag | s-custom-tag } ] [ vid <it_add_vid> ] [ preserve [
disable ] ] [ pcp-mode { classified | fixed | mapped } ] [ pcp <it_add_pcp> ] [
dei-mode { classified | fixed | dp } ] [ dei <it_add_dei> ] } ] } ] [ frame-
type { any | { ipv4 [ proto { <pr4> | udp | tcp | any } ] [ dscp { <dscp4> |
any } ] [ sip { <sip4> | any } ] [ dip { <dip4> | any } ] [ fragment { yes | no
| any } ] [ sport { <sp4> | any } ] [ dport { <dp4> | any } ] } | { ipv6 [
proto { <pr6> | udp | tcp | any } ] [ dscp { <dscp6> | any } ] [ sip { <sip6> |
any } ] [ dip { <dip6> | any } ] [ sport { <sp6> | any } ] [ dport { <dp6> |
any } ] } | { etype [ etype-value { <etype_value> | any } ] [ etype-data {
<etype_data> | any } [ <etype_mask> ] ] } | { llc [ dsap { <dsap> | any } ] [
ssap { <ssap> | any } ] [ control { <control> | any } ] [ llc-data { <llc_data>
| any } [ <llc_mask> ] ] } | { snap [ oui { <oui> | any } ] [ pid { <pid> | any
} ] } | { l2cp { stp | pause | lacp | lamp | loam | dot1x | elmi | pb | pb-gvrp
| lldp | gmrp | gvrp | uld | pagp | pvst | cisco-vlan | cdp | vtp | dtp |
cisco-stp | cisco-cfm } } } ] [ direction { both | uni-to-nni | nni-to-uni } ]
[ rule-type { both | rx | tx } ] [ tx-lookup { vid | pcp-vid | isdx } ] [ l2cp
{ [ mode { tunnel | peer | forward | discard } ] [ tmac { cisco | custom } ] }
] [ evc { <evc_id> | none } ] [ policer { <policer_id> | none | discard | evc }
] [ pop <pop> ] [ policy <policy_no> ] [ cos { <cos> | disable } ] [ dpl {
<dpl> | disable } ]
```

Syntax Description

evc

Ethernet Virtual Connections

ece

EVC Control Entry

update

Update existing entry

<ece_id>

ECE idenfifier

next

Setup the ECE ID of the next entry

<ece_id_next>

Select ECE ID of an existing entry

last

Make the ECE the last entry

lookup

Setup the ingress lookup

basic

Select basic (first) ingress lookup

advanced

Select advanced (second) ingress lookup

interface

Setup UNI

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

smac

Setup matched SMAC

<smac>

Matched SMAC

any

Match any SMAC

dmac

Setup matched DMAC

<dmac>

Matched DMAC

unicast

Match unicast DMAC

multicast

Match multicast DMAC

broadcast

Match broadcast DMAC

any

Match any DMAC

outer-tag

Setup outer tag options

match

Setup outer tag match properties

type

Setup matched tag type

untagged

Match untagged frames

tagged

Match tagged frames

c-tagged

Match C-tagged frames

s-tagged

Match S-tagged frames

any

Match tagged and untagged frames

vid

Setup matched VLAN ID

<ot_match_vid>

Matched VLAN ID value/range

any

Match any VLAN ID

pcp

Setup matched PCP

<ot_match_pcp>

Matched PCP value/range

any

Match any PCP

dei

Setup matched DEI

<ot_match_dei>

Matched DEI

any

Match any DEI

add

Setup outer tag add properties

mode

Setup NNI-to-UNI outer tag add mode

enable

Add tag when forwarding to UNI

disable
   No tag added when forwarding to UNI

vid
   Setup added tag VLAN ID

<ot_add_vid>
   Added tag VLAN ID

preserve
   Setup tag PCP/DEI preservation

disable
   Disable PCP/DEI preservation

pcp-mode
   Setup tag PCP mode

classified
   Use classified PCP

fixed
   Use fixed PCP

mapped
   Use mapped PCP

pcp
   Setup added tag PCP

<ot_add_pcp>
   Added tag PCP

dei-mode
   Setup tag DEI mode

classified
   Use classified DEI

fixed
   Use fixed DEI

dp
   Use drop precedence level

dei
   Setup added tag DEI

<ot_add_dei>
   Added tag DEI

inner-tag
   Setup inner tag options

match
   Setup inner tag match properties

type

Setup matched tag type

untagged

Match untagged frames

tagged

Match tagged frames

c-tagged

Match C-tagged frames

s-tagged

Match S-tagged frames

any

Match tagged and untagged frames

vid

Setup matched VLAN ID

<it_match_vid>

Matched VLAN ID value/range

any

Match any VLAN ID

pcp

Setup matched PCP

<it_match_pcp>

Matched PCP value/range

any

Match any PCP

dei

Setup matched DEI

<it_match_dei>

Matched DEI

any

Match any DEI

add

Setup inner tag add properties

type

Setup added tag type

none

No tag added

c-tag

Add C-tag

s-tag
> Add S-tag

s-custom-tag
> Add custom S-tag

vid
> Setup added tag VLAN ID

<it_add_vid>
> Added tag VLAN ID

preserve
> Setup tag PCP/DEI preservation

disable
> Disable PCP/DEI preservation

pcp-mode
> Setup tag PCP mode

classified
> Use classified PCP

fixed
> Use fixed PCP

mapped
> Use mapped PCP

pcp
> Setup added tag PCP

<it_add_pcp>
> Added tag PCP

dei-mode
> Setup tag DEI mode

classified
> Use classified DEI

fixed
> Use fixed DEI

dp
> Use drop precedence level

dei
> Setup added tag DEI

<it_add_dei>
> Added tag DEI

frame-type
> Setup matched frame type

any

Match any frame type

ipv4

Match IPv4 frames

proto

Setup matched IP protocol

<pr4>

Matched IP protocol

udp

Match UDP frames

tcp

Match TCP frames

any

Match any IP protocol

dscp

Setup matched DSCP

<dscp4>

Matched DSCP value/range

any

Match any DSCP

sip

Setup match source IP address

<sip4>

Matched source IP address

any

Match any source IP address

dip

Setup match destination IP address

<dip4>

Matched destination IP address

any

Match any destination IP address

fragment

Setup matched IPv4 fragments

yes

Match IPv4 fragments

no

Match IPv4 non-fragments

any

Match any IPv4 fragments

sport

Setup matched UDP/TCP source port

<sp4>

Matched UDP/TCP source port value/range

any

Match any UDP/TCP source port

dport

Setup matched UDP/TCP destination port

<dp4>

Matched UDP/TCP destination port value/range

any

Match any UDP/TCP destination port

ipv6

Match IPv6 frames

proto

Setup matched IP protocol

<pr6>

Matched IP protocol

udp

Match UDP frames

tcp

Match TCP frames

any

Match any IP protocol

dscp

Setup matched DSCP

<dscp6>

Matched DSCP value/range

any

Match any DSCP

sip

Setup match source IP address

<sip6>

Matched source IP address (32 LSB in IPv4 format)

any

Match any source IP address

dip

Setup match destination IP address

<dip6>

Matched destination IP address (32 LSB in IPv4 format)

any

Match any destination IP address

sport

Setup matched UDP/TCP source port

<sp6>

Matched UDP/TCP source port value/range

any

Match any UDP/TCP source port

dport

Setup matched UDP/TCP destination port

<dp6>

Matched UDP/TCP destination port value/range

any

Match any UDP/TCP destination port

etype

Match Ethernet Type frames

etype-value

Setup matched Ethernet Type

<etype_value>

Matched Ethernet Type

any

Match any Ethernet Type

etype-data

Setup matched Ethernet Type data

<etype_data>

Matched Ethernet Type data

any

Match any Ethernet Type data

<etype_mask>

Matched Ethernet Type data mask

llc

Match LLC frames

dsap

Setup matched DSAP

<dsap>

    Matched DSAP

any

    Match any DSAP

ssap

    Setup matched SSAP

<ssap>

    Matched SSAP

any

    Match any SSAP

control

    Setup matched LLC Control

<control>

    Matched LLC Control

any

    Match any LLC Control

llc-data

    Setup matched LLC data

<llc_data>

    Matched LLC data

any

    Match any LLC data

<llc_mask>

    Matched LLC data mask

snap

    Match SNAP frames

oui

    Setup matched OUI

<oui>

    Matched OUI

any

    Match any OUI

pid

    Setup matched PID

<pid>

    Matched PID

any

    Match any PID

l2cp

Match L2CP frame

stp

Match STP frames

pause

Match Pause frames

lacp

Match LACP frames

lamp

Match LAMP frames

loam

Match Link OAM frames

dot1x

Match 802.1X frames

elmi

Match E-LMI frames

pb

Match PB frames

pb-gvrp

Match PB GVRP frames

lldp

Match LLDP frames

gmrp

Match GMRP frames

gvrp

Match GVRP frames

uld

Match ULD frames

pagp

Match PAgP frames

pvst

Match PVST frames

cisco-vlan

Match Cisco VLAN bridge frames

cdp

Match CDP frames

vtp

Match VTP frames

dtp

Match DTP frames

cisco-stp

Match Cisco STP Uplink Fast frames

cisco-cfm

Match Cisco CFM frames

direction

Setup ECE direction

both

Bidirectional traffic flow

uni-to-nni

UNI-to-NNI traffic flow

nni-to-uni

NNI-to-UNI traffic flow

rule-type

Setup ECE rule type

both

Ingress and egress rules

rx

Ingress rules only

tx

Egress rules only

tx-lookup

Setup egress lookup key

vid

Use VLAN ID as egress lookup key

pcp-vid

Use VLAN ID and PCP as egress lookup key

isdx

Use ISDX as egress lookup key

l2cp

Setup L2CP frame options

mode

Setup L2CP mode

tunnel

Tunnel L2CP frames

peer

Peer L2CP frames

forward

    Forward L2CP frames

discard

    Discard L2CP frames

tmac

    Setup L2CP tunnel DMAC

cisco

    Use Cisco Generic BPDU Tunneling DMAC

custom

    Use custom DMAC

evc

    EVC mapping

<evc_id>

    EVC identifier

none

    Map to no EVC ID

policer

    Policer (ingress bandwith profile)

<policer_id>

    Policer ID

none

    Map to policer allowing all frames

discard

    Map to policer discarding all frames

evc

    Use policer setup for EVC

pop

    Setup tag popping

<pop>

    Number of tags popped

policy

    Setup ACL policy

<policy_no>

    ACL policy

cos

    Setup Class of Service

<cos>

    Class of Service

disable

Disable ECE CoS classification

dpl

Setup drop precedence level

<dpl>

Drop precedence level

disable

Disable ECE DPL classification

Command Mode

Global Configuration Mode

Privilege level

15

----

evc policer

Syntax

```
evc policer [ update ] <policer_id> [ { enable | disable } ] [ type { mef |
single } ] [ mode { coupled | aware | blind } ] [ rate-type { line | data } ] [
cir <cir> ] [ cbs <cbs> ] [ eir <eir> ] [ ebs <ebs> ]
```

Syntax Description

evc

Ethernet Virtual Connections

policer

Policer (ingress bandwith profile)

update

Update existing entry

<policer_id>

Policer ID

enable

Enable policer

disable

Disable policer

type

Setup policer type

mef

MEF ingress bandwidth profile

single

Single bucket policer

mode

Setup policer mode

coupled

Coupling mode

aware

Color-aware mode

blind

Color-blind mode

rate-type

Setup rate type

line

Line rate policing

data

Data rate policing

cir

Setup CIR

<cir>

Committed Information Rate [kbps]

cbs

Setup CBS

<cbs>

Committed Burst Size [bytes]

eir

Setup EIR for MEF policer

<eir>

Excess Information Rate [kbps]

ebs

Setup EBS for MEF policer

<ebs>

Excess Burst Size [bytes]

Command Mode

Global Configuration Mode

Privilege level

15

----

excessive-restart

Syntax

```
excessive-restart
```

Syntax Description

excessive-restart

Restart backoff algorithm after 16 collisions (No excessive-restart means discard frame after 16 collisions)

Command Mode

Port List Interface Mode

Privilege level

15

----

exec-banner

Syntax

```
exec-banner
```

Syntax Description

exec-banner

Enable the display of the EXEC banner

Command Mode

Line Configuration Mode

Privilege level

15

----

exec-timeout <min>

Syntax

```
exec-timeout <min> [ <sec> ]
```

Syntax Description

exec-timeout

Set the EXEC timeout

<min>
> Timeout in minutes

<sec>
> Timeout in seconds

Command Mode

Line Configuration Mode

Privilege level

15

----

exit

Syntax

> exit

Syntax Description

exit
> Exit from current mode

Command Mode

Global Configuration Mode

Privilege level

0

----

exit

Syntax

> exit

Syntax Description

exit
> Exit from current mode

Command Mode

VLAN Configuration Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit
Exit from current mode

Command Mode

Port List Interface Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit
Exit from current mode

Command Mode

VLAN Interface Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit
Exit from current mode

Command Mode

Line Configuration Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit

Exit from current mode

Command Mode

IPMC Profile Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit

Exit from current mode

Command Mode

SNMP Server Host Mode

Privilege level

0

----

exit

Syntax

exi t

Syntax Description

exit
   Exit from current mode

Command Mode

STP Aggregation Mode

Privilege level

0

----

exit

Syntax

   exit

Syntax Description

exit
   Exit from current mode

Command Mode

DHCP Pool Configuration Mode

Privilege level

0

----

exit

Syntax

   exit

Syntax Description

exit
   Exit from current mode

Command Mode

RFC2544 Profile Mode

Privilege level

0

----

exit

Syntax

```
exit
```

Syntax Description

exit

   Exit from EXEC mode

Command Mode

User EXEC Mode

Privilege level

0

----

firmware swap

Syntax

```
firmware swap
```

Syntax Description

firmware

   Firmware upgrade/swap

swap

   Swap between Active and Alternate firmware image.

Command Mode

User EXEC Mode

Privilege level

15

----

firmware upgrade <tftpserver_path_file>

Syntax

```
firmware upgrade <tftpserver_path_file>
```

Syntax Description

firmware

   Firmware upgrade/swap

upgrade

    Firmware upgrade

<tftpserver_path_file>

    TFTP Server IP address, path and file name for the server containing the new image.

Command Mode

User EXEC Mode

Privilege level

15

----

flowcontrol

Syntax

```
flowcontrol { on | off }
```

Syntax Description

flowcontrol

    Traffic flow control.

on

    Enable flow control.

off

    Disable flow control.

Command Mode

Port List Interface Mode

Privilege level

15

----

frame-loss

Syntax

```
frame-loss [ duration <fl_duration> ] [ rate { [ min <fl_min> ] [ max <fl_max>
] [ step <fl_step> ] } ]
```

Syntax Description

frame-loss

    Enable frame-loss test and optionally set its parameters

duration

    Set the duration of one trial

<fl_duration>

Duration - in seconds - of one trial

rate

Set the minimum, maximum, and/or rate steps

min

Set the minimum rate

<fl_min>

The minimum rate - in permille of link speed - to run test at.

max

Set the maximum rate

<fl_max>

The maximum rate - in permille of link speed - to run test at.

step

Set the step rate

<fl_step>

The step - in permille of link speed - to decrement the rate by for each trial

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

frame-sizes

Syntax

```
frame-sizes { [ 64 ] [ 128 ] [ 256 ] [ 512 ] [ 1024 ] [ 1280 ] [ 1518 ] [ 2000
] [ 9600 ] }
```

Syntax Description

frame-sizes

Select the frame sizes that the enabled tests will loop through

64

Enable testing with 64-byte TST PDUs

128

Enable testing with 128-byte TST PDUs

256

Enable testing with 256-byte TST PDUs

512

Enable testing with 512-byte TST PDUs

1024

> Enable testing with 1024-byte TST PDUs

1280

> Enable testing with 1280-byte TST PDUs

1518

> Enable testing with 1518-byte TST PDUs

2000

> Enable testing with 2000-byte TST PDUs

9600

> Enable testing with 9600-byte TST PDUs

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

green-ethernet eee

Syntax

```
green-ethernet eee
```

Syntax Description

green-ethernet

> Green ethernet (Power reduction)

eee

> Powering down of PHYs when there is no traffic.

Command Mode

Port List Interface Mode

Privilege level

15

----

green-ethernet eee optimize-for-power

Syntax

```
green-ethernet eee optimize-for-power
```

Syntax Description

green-ethernet

Green ethernet (Power reduction)

eee

Powering down of PHYs when there is no traffic.

optimize-for-power

Set if EEE shall be optimized for least power comsumption (else optimized for least traffic latency).

Command Mode

Global Configuration Mode

Privilege level

15

----

green-ethernet eee urgent-queues

Syntax

```
green-ethernet eee urgent-queues [ <urgent_queue_range_list> ]
```

Syntax Description

green-ethernet

Green ethernet (Power reduction)

eee

Powering down of PHYs when there is no traffic.

urgent-queues

Enables EEE urgent queue. An urgent queue means that latency is kept to a minimum for traffic goin to that queue. Note: EEE power savings will be reduced.

<urgent_queue_range_list>

EEE Interface.

Command Mode

Port List Interface Mode

Privilege level

15

----

green-ethernet energy-detect

Syntax

```
green-ethernet energy-detect
```

Syntax Description

green-ethernet
> Green ethernet (Power reduction)

energy-detect
> Enable power saving for ports with no link partner.

Command Mode

Port List Interface Mode

Privilege level

15

---green-ethernet led interval <v_0_to_24> intensity

<v_0_to_100>

Syntax

```
green-ethernet led interval <v_0_to_24> intensity <v_0_to_100>
```

Syntax Description

green-ethernet
> Green ethernet (Power reduction).

led
> LED power reduction.

interval
> Interval in whole hours at which to configure the LED intensity.

<v_0_to_24>
> Interval from 00.00 to 24.00 (00 is used to start at midnight, while 24 is used to stop at midnight).

intensity
> LEDs intensity.

<v_0_to_100>
> Internsity from 0%% (LEDs OFF) to 100%%

Command Mode

Global Configuration Mode

Privilege level

15

----

green-ethernet led on-event

Syntax

```
green-ethernet led on-event { [ link-change <v_0_to_65535> ] [ error ] }
```

Syntax Description

green-ethernet

Green ethernet (Power reduction).

led

LED power reduction.

on-event

Specifies when to turn LEDs on at 100%% intensity.

link-change

Specifies how long to turn LEDs intensity to 100%%, when a link changes state.

<v_0_to_65535>

Number of seconds to set LEDs intensity at 100%% intensity at link change.

error

Set LEDs intensity to 100%% if an error occurs.

Command Mode

Global Configuration Mode

Privilege level

15

----

green-ethernet short-reach

Syntax

```
green-ethernet short-reach
```

Syntax Description

green-ethernet

Green ethernet (Power reduction)

short-reach

Enable power saving for ports which is connect to link partner with short cable.

Command Mode

Port List Interface Mode

Privilege level

15

----

gvrp

Syntax

gvrp

Syntax Description

gvrp
Enable GVRP feature

Command Mode

Global Configuration Mode

Privilege level

15

----

gvrp

Syntax

gvrp

Syntax Description

gvrp
Enable GVRP on port(s)

Command Mode

Port List Interface Mode

Privilege level

15

----

gvrp join-request vlan <v_vlan_list>

Syntax

gvrp join-request vlan <v_vlan_list>

Syntax Description

gvrp
> GVRP command for test

join-request
> Emit a Join-Request for test purpose

vlan
> vlan

<v_vlan_list>
> <v_vlan_list>

Command Mode

Port List Interface Mode

Privilege level

15

----

gvrp leave-request vlan <v_vlan_list>

Syntax

```
gvrp leave-request vlan <v_vlan_list>
```

Syntax Description

gvrp
> GVRP command for test

leave-request
> Emit a Leave-Request for test purpose

vlan
> keyword 'vlan'

<v_vlan_list>
> List of VLANs

Command Mode

Port List Interface Mode

Privilege level

15

----

gvrp max-vlans <maxvlans>

Syntax

```
gvrp max-vlans <maxvlans>
```

Syntax Description

gvrp

    gvrp

max-vlans

    max-vlans

<maxvlans>

    <maxvlans>

Command Mode

Global Configuration Mode

Privilege level

15

----

gvrp time

Syntax

```
gvrp time { [ join-time <jointime> ] [ leave-time <leavetime> ] [ leave-all-
time <leavealltime> ] }
```

Syntax Description

gvrp

    gvrp

time

    time

join-time

    join-time

<jointime>

    <jointime>

leave-time

    leave-time

<leavetime>

    <leavetime>

leave-all-time

   leave-all-time

<leavealltime>

   <leavealltime>

Command Mode

Global Configuration Mode

Privilege level

15

----

hardware-address <mac>

Syntax

```
hardware-address <mac>
```

Syntax Description

hardware-address

   Client hardware address

<mac>

   Client MAC address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

help

Syntax

```
help
```

Syntax Description

help

   Description of the interactive help system

Command Mode

Global Configuration Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help

Description of the interactive help system

Command Mode

VLAN Configuration Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help

Description of the interactive help system

Command Mode

Port List Interface Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help

Description of the interactive help system

Command Mode

VLAN Interface Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help

Description of the interactive help system

Command Mode

Line Configuration Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help

Description of the interactive help system

Command Mode

IPMC Profile Mode

Privilege level

0

----

help

Syntax

hel p

Syntax Description

help
> Description of the interactive help system

Command Mode

SNMP Server Host Mode

Privilege level

0

---

help

Syntax

> hel p

Syntax Description

help
> Description of the interactive help system

Command Mode

STP Aggregation Mode

Privilege level

0

---

help

Syntax

> hel p

Syntax Description

help
> Description of the interactive help system

Command Mode

DHCP Pool Configuration Mode

Privilege level

0

----

help

Syntax

help

Syntax Description

help

Description of the interactive help system

Command Mode

RFC2544 Profile Mode

Privilege level

0

----

help

Syntax

help

Syntax Description

help

Description of the interactive help system

Command Mode

User EXEC Mode

Privilege level

0

----

history size <history_size>

Syntax

history size <history_size>

Syntax Description

history

Control the command history function

size

Set history buffer size

<history_size>
  Number of history commands, 0 means disable

Command Mode
Line Configuration Mode

Privilege level
15

----

host <ip> <subnet_mask>

Syntax
```
host <ip> <subnet_mask>
```

Syntax Description

host
  Client IP address and mask

<ip>
  Network number

<subnet_mask>
  Network mask in dotted-decimal notation, excluding 255.255.255.255

Command Mode
DHCP Pool Configuration Mode

Privilege level
13

----

host <v_ipv6_ucast>

Syntax
```
host <v_ipv6_ucast> [ <udp_port> ] [ traps | informs ]
```

Syntax Description

host
  host configuration

<v_ipv6_ucast>
  IP address of SNMP trap host

<udp_port>
  UDP port of the trap messges

traps

 Send Trap messages to this host

informs

 Send Inform messages to this host

Command Mode

SNMP Server Host Mode

Privilege level

15

----

host

Syntax

```
host { <v_ipv4_ucast> | <v_word45> } [ <udp_port> ] [ traps | informs ]
```

Syntax Description

host

 host configuration

<v_ipv4_ucast>

 IP address of SNMP trap host

<v_word45>

 hostname of SNMP trap host

<udp_port>

 UDP port of the trap messges

traps

 Send Trap messages to this host

informs

 Send Inform messages to this host

Command Mode

SNMP Server Host Mode

Privilege level

15

hostname <hostname>

Syntax

```
hostname <hostname>
```

Syntax Description

hostname

Set system's network name

<hostname>

This system's network name

Command Mode

Global Configuration Mode

Privilege level

15

----

informs retries <retries> timeout <timeout>

Syntax

```
informs retries <retries> timeout <timeout>
```

Syntax Description

informs

Send Inform messages to this host

retries

retires inform messages

<retries>

retires times

timeout

timeout parmater

<timeout>

timeout interval

Command Mode

SNMP Server Host Mode

Privilege level

15

----

interface <port_type>

Syntax

```
interface <port_type> [ <plist> ]
```

Syntax Description

interface

 Select an interface to configure

<port_type>

 Port type in Fast, Giga or Tengiga ethernet

<plist>

 List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

Global Configuration Mode

Privilege level

15

----

interface vlan <vlist>

Syntax

```
interface vlan <vlist>
```

Syntax Description

interface

 Select an interface to configure

vlan

 VLAN interface configurations

<vlist>

 List of VLAN interface numbers, 1~4095

Command Mode

Global Configuration Mode

Privilege level

15

----

ip address

Syntax

```
ip address { { <address> <netmask> } | { dhcp [ fallback <fallback_address>
<fallback_netmask> [ timeout <fallback_timeout> ] ] } }
```

Syntax Description

ip
> IPv4 configuration

address
> Address configuraton

<address>
> IP address

<netmask>
> IP netmask

dhcp
> Enable DHCP

fallback
> DHCP fallback settings

<fallback_address>
> DHCP fallback address

<fallback_netmask>
> DHCP fallback netmask

timeout
> DHCP fallback timeout

<fallback_timeout>
> DHCP fallback timeout in seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip arp inspection

Syntax

```
ip arp inspection
```

Syntax Description

ip
> Internet Protocol

arp
> Address Resolution Protocol

inspection
ARP inspection

Command Mode

Global Configuration Mode

Privilege level

13

----

ip arp inspection check-vlan

Syntax

```
ip arp inspection check-vlan
```

Syntax Description

ip
Internet Protocol

arp
Address Resolution Protocol

inspection
ARP inspection

check-vlan
ARP inspection VLAN mode config

Command Mode

Port List Interface Mode

Privilege level

13

---ip arp inspection entry interface <port_type>

<in_port_type_id> <vlan_var> <mac_var> <ipv4_var>

Syntax

```
ip arp inspection entry interface <port_type> <in_port_type_id> <vlan_var>
<mac_var> <ipv4_var>
```

Syntax Description

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

entry

arp inspection entry

interface

arp inspection entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>

Port ID in the format of switch-no/port-no

<vlan_var>

Select a VLAN id to configure

<mac_var>

Select a MAC address to configure

<ipv4_var>

Select an IP Address to configure

Command Mode

Global Configuration Mode

Privilege level

13

----

ip arp inspection logging

Syntax

```
ip arp inspection logging { deny | permit | all }
```

Syntax Description

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

logging

ARP inspection logging mode config

deny

log denied entries

permit

log permitted entries

all

log all entries

Command Mode

Port List Interface Mode

Privilege level

13

----

ip arp inspection translate

Syntax

```
ip arp inspection translate [ interface <port_type> <in_port_type_id>
<vlan_var> <mac_var> <ipv4_var> ]
```

Syntax Description

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

translate

arp inspection translate all entries

interface

arp inspection entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>

Port ID in the format of switch-no/port-no

<vlan_var>

Select a VLAN id to configure

<mac_var>
>   Select a MAC address to configure

<ipv4_var>
>   Select an IP Address to configure

Command Mode
Global Configuration Mode

Privilege level
13

----

ip arp inspection trust

Syntax
```
ip arp inspection trust
```

Syntax Description

ip
>   Internet Protocol

arp
>   Address Resolution Protocol

inspection
>   ARP inspection

trust
>   ARP inspection trust config

Command Mode
Port List Interface Mode

Privilege level
13

----

ip arp inspection vlan <in_vlan_list>

Syntax
```
ip arp inspection vlan <in_vlan_list>
```

Syntax Description

ip
>   Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

vlan

arp inspection vlan setting

<in_vlan_list>

arp inspection vlan list

Command Mode

Global Configuration Mode

Privilege level

13

----

ip arp inspection vlan <in_vlan_list> logging

Syntax

```
ip arp inspection vlan <in_vlan_list> logging { deny | permit | all }
```

Syntax Description

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

vlan

arp inspection vlan setting

<in_vlan_list>

arp inspection vlan list

logging

ARP inspection vlan logging mode config

deny

log denied entries

permit

log permitted entries

all

log all entries

Command Mode

Global Configuration Mode

Privilege level

13

----

ip dhcp excluded-address <low_ip>

Syntax

```
ip dhcp excluded-address <low_ip> [ <high_ip> ]
```

Syntax Description

ip

Interface Internet Protocol config commands

dhcp

Configure DHCP server parameters

excluded-address

Prevent DHCP from assigning certain addresses

<low_ip>

Low IP address

<high_ip>

High IP address

Command Mode

Global Configuration Mode

Privilege level

13

----

ip dhcp pool <pool_name>

Syntax

```
ip dhcp pool <pool_name>
```

Syntax Description

ip

Interface Internet Protocol config commands

dhcp

Configure DHCP server parameters

pool
    Configure DHCP address pools

<pool_name>
    Pool name in 32 characters

Command Mode
Global Configuration Mode

Privilege level
15

----

ip dhcp relay

Syntax
        ip dhcp relay

Syntax Description

ip
    Interface Internet Protocol config commands

dhcp
    Dynamic Host Configuration Protocol

relay
    DHCP relay agent configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

ip dhcp relay information option

Syntax
        ip dhcp relay information option

Syntax Description

ip
    Interface Internet Protocol config commands

dhcp
    Dynamic Host Configuration Protocol

relay
    DHCP relay agent configuration

information
    DHCP information option(Option 82)

option
    DHCP option

Command Mode
Global Configuration Mode

Privilege level
15

----

ip dhcp relay information policy

Syntax
    ip dhcp relay information policy { drop | keep | replace }

Syntax Description

ip
    Interface Internet Protocol config commands

dhcp
    Dynamic Host Configuration Protocol

relay
    DHCP relay agent configuration

information
    DHCP information option(Option 82)

policy
    Policy for handling the receiving DHCP packet already include the information option

drop
    Drop the package when receive a DHCP message that already contains relay information

keep
    Keep the original relay information when receive a DHCP message that already contains it

replace
    Replace the original relay information when receive a DHCP message that already contains it

Command Mode
Global Configuration Mode

Privilege level
15

----

ip dhcp retry interface vlan <vlan_id>

Syntax

```
ip dhcp retry interface vlan <vlan_id>
```

Syntax Description

ip

IPv4 commands

dhcp

Dhcp commands

retry

Restart the DHCP query process

interface

Interface

vlan

Vlan interface

<vlan_id>

Vlan ID

Command Mode

User EXEC Mode

Privilege level

15

----

ip dhcp server

Syntax

```
ip dhcp server
```

Syntax Description

ip

Interface Internet Protocol config commands

dhcp

Configure DHCP server parameters

server

Enable DHCP server

Command Mode

Global Configuration Mode

Privilege level

13

----

ip dhcp server

Syntax

```
ip dhcp server
```

Syntax Description

ip
> Interface Internet Protocol config commands

dhcp
> Configure DHCP server parameters

server
> Enable DHCP server per VLAN

Command Mode

VLAN Interface Mode

Privilege level

13

----

ip dhcp snooping

Syntax

```
ip dhcp snooping
```

Syntax Description

ip
> Interface Internet Protocol config commands

dhcp
> Dynamic Host Configuration Protocol

snooping
> DHCP snooping

Command Mode

Global Configuration Mode

Privilege level

15

----

ip dhcp snooping trust

Syntax

```
ip dhcp snooping trust
```

Syntax Description

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

trust

DHCP Snooping trust config

Command Mode

Port List Interface Mode

Privilege level

15

----

ip dns proxy

Syntax

```
ip dns proxy
```

Syntax Description

ip

Interface Internet Protocol config commands

dns

Domain Name System

proxy

DNS proxy service

Command Mode

Global Configuration Mode

Privilege level

15

----

ip helper-address <v_ipv4_ucast>

Syntax

```
ip helper-address <v_ipv4_ucast>
```

Syntax Description

ip

Interface Internet Protocol config commands

helper-address

DHCP relay server

<v_ipv4_ucast>

IP address of the DHCP relay server

Command Mode

Global Configuration Mode

Privilege level

15

----

ip http secure-redirect

Syntax

```
ip http secure-redirect
```

Syntax Description

ip

Interface Internet Protocol config commands

http

Hypertext Transfer Protocol

secure-redirect

Secure HTTP web redirection

Command Mode

Global Configuration Mode

Privilege level

15

----

ip http secure-server

Syntax

```
ip http secure-server
```

Syntax Description

ip
    Interface Internet Protocol config commands

http
    Hypertext Transfer Protocol

secure-server
    Secure HTTP web server

Command Mode

Global Configuration Mode

Privilege level

15

----

ip igmp host-proxy

Syntax

```
ip igmp host-proxy [ leave-proxy ]
```

Syntax Description

ip
    Interface Internet Protocol config commands

igmp
    Internet Group Management Protocol

host-proxy
    IGMP proxy configuration

leave-proxy
    IGMP proxy for leave configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

ip igmp snooping

Syntax

```
ip igmp snooping
```

Syntax Description

ip

   Interface Internet Protocol config commands

igmp

   Internet Group Management Protocol

snooping

   Snooping IGMP

Command Mode

Global Configuration Mode

Privilege level

15

----

ip igmp snooping

Syntax

```
ip igmp snooping
```

Syntax Description

ip

   Interface Internet Protocol config commands

igmp

   Internet Group Management Protocol

snooping

   Snooping IGMP

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping compatibility

Syntax

```
ip igmp snooping compatibility { auto | v1 | v2 | v3 }
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

compatibility

Interface compatibility

auto

Compatible with IGMPv1/IGMPv2/IGMPv3

v1

Forced IGMPv1

v2

Forced IGMPv2

v3

Forced IGMPv3

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping filter <profile_name>

Syntax

```
ip igmp snooping filter <profile_name>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

filter

Access control on IGMP multicast group registration

<profile_name>

Profile name in 16 char's

Command Mode

Port List Interface Mode

Privilege level

15

----

ip igmp snooping immediate-leave

Syntax

```
ip igmp snooping immediate-leave
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

immediate-leave

Immediate leave configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

ip igmp snooping last-member-query-interval <ipmc_lmqi>

Syntax

```
ip igmp snooping last-member-query-interval <ipmc_lmqi>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

last-member-query-interval

Last Member Query Interval in tenths of seconds

<ipmc_lmqi>

0 - 31744 tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping max-groups <throttling>

Syntax

```
ip igmp snooping max-groups <throttling>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

max-groups

IGMP group throttling configuration

<throttling>

Maximun number of IGMP group registration

Command Mode

Port List Interface Mode

Privilege level

15

----

ip igmp snooping mrouter

Syntax

```
ip igmp snooping mrouter
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

mrouter

Multicast router port configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

ip igmp snooping priority <cos_priority>

Syntax

```
ip igmp snooping priority <cos_priority>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

priority

Interface CoS priority

<cos_priority>

CoS priority ranges from 0 to 7

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping querier

Syntax

```
ip igmp snooping querier { election | address <v_ipv4_ucast> }
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

querier

IGMP Querier configuration

election

Act as an IGMP Querier to join Querier-Election

address

IGMP Querier address configuration

<v_ipv4_ucast>

A valid IPv4 unicast address

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping query-interval <ipmc_qi>

Syntax

```
ip igmp snooping query-interval <ipmc_qi>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

query-interval

Query Interval in seconds

<ipmc_qi>

1 - 31744 seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping query-max-response-time <ipmc_qri>

Syntax

```
ip igmp snooping query-max-response-time <ipmc_qri>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

query-max-response-time

Query Response Interval in tenths of seconds

<ipmc_qri>

0 - 31744 tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping robustness-variable <ipmc_rv>

Syntax

```
ip igmp snooping robustness-variable <ipmc_rv>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

robustness-variable

Robustness Variable

<ipmc_rv>

Packet loss tolerance count from 1 to 255

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping unsolicited-report-interval <ipmc_uri>

Syntax

```
ip igmp snooping unsolicited-report-interval <ipmc_uri>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

unsolicited-report-interval

Unsolicited Report Interval in seconds

<ipmc_uri>

0 - 31744 seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ip igmp snooping vlan <v_vlan_list>

Syntax

```
ip igmp snooping vlan <v_vlan_list>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

vlan

IGMP VLAN

<v_vlan_list>

VLAN identifier(s): VID

Command Mode

Global Configuration Mode

Privilege level

15

----

ip igmp ssm-range <v_ipv4_mcast> <ipv4_prefix_length>

Syntax

```
ip igmp ssm-range <v_ipv4_mcast> <ipv4_prefix_length>
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

ssm-range

IPv4 address range of Source Specific Multicast

<v_ipv4_mcast>

Valid IPv4 multicast address

<ipv4_prefix_length>

Prefix length ranges from 4 to 32

Command Mode

Global Configuration Mode

Privilege level

15

----

ip igmp unknown-flooding

Syntax

```
ip igmp unknown-flooding
```

Syntax Description

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

unknown-flooding

Flooding unregistered IPv4 multicast traffic

Command Mode

Global Configuration Mode

Privilege level

15

----

ip name-server

Syntax

```
ip name-server { <v_ipv4_ucast> | dhcp [ interface vlan <v_vlan_id> ] }
```

Syntax Description

ip

Interface Internet Protocol config commands

name-server
Domain Name System

<v_ipv4_ucast>
A valid IPv4 unicast address

dhcp
Dynamic Host Configuration Protocol

interface
Select an interface to configure

vlan
VLAN Interface

<v_vlan_id>
VLAN identifier(s): VID

Command Mode

Global Configuration Mode

Privilege level

15

----

ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>

Syntax

```
ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>
```

Syntax Description

ip
IPv4 configurations

route
Add IP route

<v_ipv4_addr>
Network

<v_ipv4_netmask>
Netmask

<v_ipv4_gw>
Gateway

Command Mode

Global Configuration Mode

Privilege level

15

----

ip routing

Syntax

```
ip routing
```

Syntax Description

ip

    ip

routing

    routing

Command Mode

Global Configuration Mode

Privilege level

15

---**ip source binding interface \<port_type\> \<in_port_type_id\>**

\<vlan_var\> \<ipv4_var\> \<mac_var\>

Syntax

```
ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var>
<mac_var>
```

Syntax Description

ip

    Internet Protocol

source

    source command

binding

    ip source binding

interface

    ip source binding entry interface config

\<port_type\>

    Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>
>   Port ID in the format of switch-no/port-no

<vlan_var>
>   Select a VLAN id to configure

<ipv4_var>
>   Select an IP Address to configure

<mac_var>
>   Select a MAC address to configure

Command Mode
Global Configuration Mode

Privilege level
13

--**ip source binding interface <port_type> <in_port_type_id>**

<vlan_var> <ipv4_var> <mask_var>

Syntax

```
ip source binding interface <port_type> <in_port_type_id> <vlan_var> <ipv4_var>
<mask_var>
```

Syntax Description

ip
>   Internet Protocol

source
>   source command

binding
>   ip source binding

interface
>   ip source binding entry interface config

<port_type>
>   Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>
>   Port ID in the format of switch-no/port-no

<vlan_var>

Select a VLAN id to configure

<ipv4_var>

Select an IP Address to configure

<mask_var>

Select a subnet mask to configure

Command Mode

Global Configuration Mode

Privilege level

13

----

ip ssh

Syntax

```
ip ssh
```

Syntax Description

ip

Interface Internet Protocol config commands

ssh

Secure Shell

Command Mode

Global Configuration Mode

Privilege level

15

----

ip verify source

Syntax

```
ip verify source
```

Syntax Description

ip

Internet Protocol

verify

verify command

source
> verify source

Command Mode

Global Configuration Mode

Privilege level

13

----

ip verify source

Syntax

```
ip verify source
```

Syntax Description

ip
> Internet Protocol

verify
> verify command

source
> verify source

Command Mode

Port List Interface Mode

Privilege level

13

ip verify source limit <cnt_var>

Syntax

```
ip verify source limit <cnt_var>
```

Syntax Description

ip
> Internet Protocol

verify
> verify command

source
> verify source

limit
> limit command

<cnt_var>
> the number of limit

Command Mode

Port List Interface Mode

Privilege level

13

----

ip verify source translate

Syntax

```
ip verify source translate
```

Syntax Description

ip
> Internet Protocol

verify
> verify command

source
> verify source

translate
> ip verify source translate all entries

Command Mode

Global Configuration Mode

Privilege level

13

----

ipmc profile

Syntax

```
ipmc profile
```

Syntax Description

ipmc
> IPv4/IPv6 multicast configuration

profile
> IPMC profile configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

ipmc profile <profile_name>

Syntax

```
ipmc profile <profile_name>
```

Syntax Description

ipmc

IPv4/IPv6 multicast configuration

profile

IPMC profile configuration

<profile_name>

Profile name in 16 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

ipmc range <entry_name>

Syntax

```
ipmc range <entry_name> { <v_ipv4_mcast> [ <v_ipv4_mcast_1> ] | <v_ipv6_mcast>
[ <v_ipv6_mcast_1> ] }
```

Syntax Description

ipmc

IPv4/IPv6 multicast configuration

range

A range of IPv4/IPv6 multicast addresses for the profile

<entry_name>

Range entry name in 16 char's

<v_ipv4_mcast>

Valid IPv4 multicast address

<v_ipv4_mcast_1>

Valid IPv4 multicast address that is not less than start address

<v_ipv6_mcast>

Valid IPv6 multicast address

<v_ipv6_mcast_1>

Valid IPv6 multicast address that is not less than start address

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 address <subnet>

Syntax

```
ipv6 address <subnet>
```

Syntax Description

ipv6

IPv6 configuration commands

address

Configure the IPv6 address of an interface

<subnet>

IPv6 prefix x:x::y/z

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld host-proxy

Syntax

```
ipv6 mld host-proxy [ leave-proxy ]
```

Syntax Description

ipv6

IPv6 configuration commands

mld
>   Multicasat Listener Discovery

host-proxy
>   MLD proxy configuration

leave-proxy
>   MLD proxy for leave configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 mld snooping

Syntax

```
ipv6 mld snooping
```

Syntax Description

ipv6
>   IPv6 configuration commands

mld
>   Multicasat Listener Discovery

snooping
>   Snooping MLD

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 mld snooping

Syntax

```
ipv6 mld snooping
```

Syntax Description

ipv6
>   IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping
> Snooping MLD

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping compatibility

Syntax

```
ipv6 mld snooping compatibility { auto | v1 | v2 }
```

Syntax Description

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping
> Snooping MLD

compatibility
> Interface compatibility

auto
> Compatible with MLDv1/MLDv2

v1
> Forced MLDv1

v2
> Forced MLDv2

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping filter <profile_name>

Syntax

```
ipv6 mld snooping filter <profile_name>
```

Syntax Description

ipv6
IPv6 configuration commands

mld
Multicasat Listener Discovery

snooping
Snooping MLD

filter
Access control on MLD multicast group registration

<profile_name>
Profile name in 16 char's

Command Mode
Port List Interface Mode

Privilege level
15

----

ipv6 mld snooping immediate-leave

Syntax

```
ipv6 mld snooping immediate-leave
```

Syntax Description

ipv6
IPv6 configuration commands

mld
Multicasat Listener Discovery

snooping
Snooping MLD

immediate-leave
Immediate leave configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

ipv6 mld snooping last-member-query-interval <ipmc_lmqi>

Syntax

```
ipv6 mld snooping last-member-query-interval <ipmc_lmqi>
```

Syntax Description

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping
> Snooping MLD

last-member-query-interval
> Last Member Query Interval in tenths of seconds

<ipmc_lmqi>
> 0 - 31744 tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping max-groups <throttling>

Syntax

```
ipv6 mld snooping max-groups <throttling>
```

Syntax Description

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping

Snooping MLD

max-groups

MLD group throttling configuration

<throttling>

Maximun number of MLD group registration

Command Mode

Port List Interface Mode

Privilege level

15

----

ipv6 mld snooping mrouter

Syntax

```
ipv6 mld snooping mrouter
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

mrouter

Multicast router port configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

ipv6 mld snooping priority <cos_priority>

Syntax

```
ipv6 mld snooping priority <cos_priority>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

priority

Interface CoS priority

<cos_priority>

CoS priority ranges from 0 to 7

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping querier election

Syntax

```
ipv6 mld snooping querier election
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

querier

MLD Querier configuration

election

Act as a MLD Querier to join Querier-Election

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping query-interval <ipmc_qi>

Syntax

```
ipv6 mld snooping query-interval <ipmc_qi>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

query-interval

Query Interval in seconds

<ipmc_qi>

1 - 31744 seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping query-max-response-time <ipmc_qri>

Syntax

```
ipv6 mld snooping query-max-response-time <ipmc_qri>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

query-max-response-time

Query Response Interval in tenths of seconds

<ipmc_qri>

0 - 31744 tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping robustness-variable <ipmc_rv>

Syntax

```
ipv6 mld snooping robustness-variable <ipmc_rv>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

robustness-variable

Robustness Variable

<ipmc_rv>

Packet loss tolerance count from 1 to 255

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping unsolicited-report-interval <ipmc_uri>

Syntax

```
ipv6 mld snooping unsolicited-report-interval <ipmc_uri>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

unsolicited-report-interval

Unsolicited Report Interval in seconds

<ipmc_uri>

0 - 31744 seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 mld snooping vlan <v_vlan_list>

Syntax

```
ipv6 mld snooping vlan <v_vlan_list>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

vlan

MLD VLAN

<v_vlan_list>

VLAN identifier(s): VID

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 mld ssm-range <v_ipv6_mcast> <ipv6_prefix_length>

Syntax

```
ipv6 mld ssm-range <v_ipv6_mcast> <ipv6_prefix_length>
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

ssm-range

IPv6 address range of Source Specific Multicast

<v_ipv6_mcast>

Valid IPv6 multicast address

<ipv6_prefix_length>

Prefix length ranges from 8 to 128

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 mld unknown-flooding

Syntax

```
ipv6 mld unknown-flooding
```

Syntax Description

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

unknown-flooding

Flooding unregistered IPv6 multicast traffic

Command Mode

Global Configuration Mode

Privilege level

15

----

ipv6 mtu <mtubytes>

Syntax

```
ipv6 mtu <mtubytes>
```

Syntax Description

ipv6

IPv6 configuration commands

mtu

Maximum transmission unit

<mtubytes>

MTU value in bytes

Command Mode

VLAN Interface Mode

Privilege level

15

----

ipv6 route <v_ipv6_subnet>

Syntax

```
ipv6 route <v_ipv6_subnet> { <v_ipv6_ucast> | interface vlan <v_vlan_id>
<v_ipv6_addr> }
```

Syntax Description

ipv6

IPv6 configuration commands

route

Configure static routes

<v_ipv6_subnet>

IPv6 prefix x:x::y/z

<v_ipv6_ucast>

IPv6 unicast address (except link-local address) of next-hop

interface

Select an interface to configure

vlan

VLAN Interface

<v_vlan_id>
VLAN identifier(s): VID

<v_ipv6_addr>
IPv6 link-local address of next-hop

Command Mode
Global Configuration Mode

Privilege level
15

----

lacp

Syntax
lacp

Syntax Description

lacp
Enable LACP on this interface

Command Mode
Port List Interface Mode

Privilege level
15

----

lacp key

Syntax
lacp key { <v_1_to_65535> | auto }

Syntax Description

lacp
LACP port configuration

key
Key of the LACP aggregation

<v_1_to_65535>
Key value

auto
Choose a key based on port speed

Command Mode

Port List Interface Mode

Privilege level

15

----

lacp port-priority <v_1_to_65535>

Syntax

```
lacp port-priority <v_1_to_65535>
```

Syntax Description

lacp

LACP port configuration

port-priority

LACP priority of the port

<v_1_to_65535>

Priority value, lower means higher priority

Command Mode

Port List Interface Mode

Privilege level

15

----

lacp role

Syntax

```
lacp role { active | passive }
```

Syntax Description

lacp

LACP port configuration

role

Active / Passive (speak if spoken to) role

active

Transmit LACP BPDUs continously

passive

Wait for neighbour LACP BPDUs before transmitting

Command Mode

Port List Interface Mode

Privilege level

15

----

lacp system-priority <v_1_to_65535>

Syntax

```
lacp system-priority <v_1_to_65535>
```

Syntax Description

lacp

LACP settings

system-priority

System priority

<v_1_to_65535>

Priority value, lower means higher priority

Command Mode

Global Configuration Mode

Privilege level

15

----

lacp timeout

Syntax

```
lacp timeout { fast | slow }
```

Syntax Description

lacp

LACP port configuration

timeout

The period between BPDU transmissions

fast

Transmit BPDU each second (fast timeout)

slow

Transmit BPDU each 30th second (slow timeout)

Command Mode

Port List Interface Mode

Privilege level

15

----

latency

Syntax

```
latency [ duration <la_duration> ] [ interval <la_interval> ] [ allowed-loss
<la_allowed_loss> ]
```

Syntax Description

latency

Enable latency test and optionally set its parameters

duration

Set the duration of one trial

<la_duration>

Duration - in seconds - of one trial

interval

Interval between sending delay measurement frames

<la_interval>

The interval - in seconds - between sending delay measurement frames

allowed-loss

Set the maximum allowed TST PDU loss at which the test is consideres successful

<la_allowed_loss>

The maximum allowed loss in permille at which the test is considered successful

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

lease

Syntax

```
lease { <day> [ <hour> [ <min> ] ] | infinite }
```

Syntax Description

lease
Address lease time

<day>
Days

<hour>
Hours

<min>
Minutes

infinite
Infinite lease

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

length <length>

Syntax

```
length <length>
```

Syntax Description

length
Set number of lines on a screen

<length>
Number of lines on screen (0 for no pausing)

Command Mode

Line Configuration Mode

Privilege level

15

----

line

Syntax

```
line { <0~16> | console 0 | vty <0~15> }
```

Syntax Description

line

Configure a terminal line

<0~16>

List of line numbers

console

Console terminal line

0

Console Line number

vty

Virtual terminal

<0~15>

List of vty numbers

Command Mode

Global Configuration Mode

Privilege level

15

----

link-oam

Syntax

```
link-oam
```

Syntax Description

link-oam

Enable or Disable(when the no keyword is entered) Link OAM on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam link-monitor frame

Syntax

```
link-oam link-monitor frame { [ window <error_window> ] [ threshold
<error_threshold> ] }
```

Syntax Description

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

frame

Configure frame error event thresholds and window for error frames that trigger an error-frame link event

window

Set the a window of time during which error frames are counted

<error_window>

Duration of the monitoring period in terms of seconds

threshold

Set a threshold in number of frames

<error_threshold>

Number of permissible errors frames in the period defined by error_window

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam link-monitor frame-seconds

Syntax

```
link-oam link-monitor frame-seconds { [ window <error_window> ] [ threshold
<error_threshold> ] }
```

Syntax Description

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

frame-seconds

Configure frame seconds summary

window

Configure window value

<error_window>

Duration of the monitoring period in terms of seconds

threshold

Configure threshold

<error_threshold>

Number of permissible Error Frame Seconds in the period defined by error_window

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam link-monitor supported

Syntax

```
link-oam link-monitor supported
```

Syntax Description

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

supported

Enable or Disable(when the no keyword is entered) link monitor on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam link-monitor symbol-period

Syntax

```
link-oam link-monitor symbol-period { [ window <error_window> ] [ threshold
<error_threshold> ] }
```

Syntax Description

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

symbol-period

> Configure window and thresholds for an error-symbol period that triggers an error-symbol period link event

window

> Duration of the monitoring in terms of seconds

<error_window>

> Set window size in terms of seconds

threshold

> Number of permissible error symbols in the period defined by error_window

<error_threshold>

> Threshold in number of symbols

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam mib-retrieval supported

Syntax

```
link-oam mib-retrieval supported
```

Syntax Description

link-oam

> Link OAM configuration

mib-retrieval

> Set MIB retrieval support

supported

> Enable or Disable(when the no keyword is entered) MIB retrieval support on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam mode

Syntax

```
link-oam mode { active | passive }
```

Syntax Description

link-oam

Link OAM configuration

mode

Set Link OAM mode Active or Passive on this interface

active

Enable Link OAM Active mode on this interface

passive

Enable Link OAM Passive mode on this interface

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam remote-loopback supported

Syntax

```
link-oam remote-loopback supported
```

Syntax Description

link-oam

Link OAM configuration

remote-loopback

Link OAM remote loopback support

supported

Enable or Disable(when the no keyword is entered) remote loopback on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

link-oam remote-loopback

Syntax

```
link-oam remote-loopback { start | stop } interface <port_type> [
<v_port_type_list> ]
```

Syntax Description

link-oam

Link OAM configuration

remote-loopback

Configure remote loopback on interface

start

Start remote loopback test on interface

stop

Stop remote loopback test on interface

interface

Start/Stop remote loopback test on a specific interface or interfaces.

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

link-oam variable-retrieve

Syntax

```
link-oam variable-retrieve { local-info | remote-info }
```

Syntax Description

link-oam

Link OAM configuartion on port

variable-retrieve

Set mib variable retrieve local info or remote info

local-info

> Set mib retrieve local info

remote-info

> Set mib retrieve remote info

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp cdp-aware

Syntax

```
lldp cdp-aware
```

Syntax Description

lldp

> LLDP configurations.

cdp-aware

> Configures if the interface shall be CDP aware (CDP discovery information is added to the LLDP neighbor table)

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp holdtime <val>

Syntax

```
lldp holdtime <val>
```

Syntax Description

lldp

> LLDP configurations.

holdtime

> Sets LLDP hold time (The neighbor switch will discarded the LLDP information after \"hold time\" multiplied with \"timer\" seconds).

<val>

2-10 seconds.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med datum

Syntax

```
lldp med datum { wgs84 | nad83-navd88 | nad83-mllw }
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

datum

Datum (geodetic system) type.

wgs84

World Geodetic System 1984

nad83-navd88

North American vertical datum 1983

nad83-mllw

Mean lower low water datum 1983

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med fast <v_1_to_10>

Syntax

```
lldp med fast <v_1_to_10>
```

Syntax Description

lldp

    Link Layer Discover Protocol.

med

    Media Endpoint Discovery.

fast

    Number of times to repeat LLDP frame transmission at fast start.

<v_1_to_10>

    <v_1_to_10>

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med location-tlv altitude

Syntax

```
lldp med location-tlv altitude { meters | floors } <v_word11>
```

Syntax Description

lldp

    Link Layer Discover Protocol.

med

    Media Endpoint Discovery.

location-tlv

    LLDP-MED Location Type Length Value parameter.

altitude

    Altitude parameter.

meters

    Specify the altitude in meters.

floors

    Specify the altitude in floor.

<v_word11>

    Altitude value.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med location-tlv civic-addr

Syntax

```
lldp med location-tlv civic-addr { country | state | county | city | district |
block | street | leading-street-direction | trailing-street-suffix | street-
suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-
code | building | apartment | floor | room-number | place-type | postal-
community-name | p-o-box | additional-code } <v_string250>
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

location-tlv

LLDP-MED Location Type Length Value parameter.

civic-addr

Civic address information and postal information

country

The two-letter ISO 3166 country code in capital ASCII letters - Example: DK, DE or US.

state

National subdivisions (state, canton, region, province, prefecture).

county

County, parish, gun (Japan), district.

city

City, township, shi (Japan) - Example: Copenhagen.

district

City division, borough, city district, ward, chou (Japan).

block

Neighborhood, block.

street

Street - Example: Poppelvej.

leading-street-direction

Leading street direction - Example: N.

trailing-street-suffix

Trailing street suffix - Example: SW.

street-suffix

Street suffix - Example: Ave, Platz.

house-no

House number - Example: 21.

house-no-suffix

House number suffix - Example: A, 1/2.

landmark

Landmark or vanity address - Example: Columbia University.

additional-info

Additional location info - Example: South Wing.

name

Name (residence and office occupant) - Example: Flemming Jahn.

zip-code

Postal/zip code - Example: 2791.

building

Building (structure) - Example: Low Library.

apartment

Unit (Apartment, suite) - Example: Apt 42.

floor

Floor - Example: 4.

room-number

Room number - Example: 450F.

place-type

Place type - Example: Office.

postal-community-name

Postal community name - Example: Leonia.

p-o-box

Post office box (P.O. BOX) - Example: 12345.

additional-code

Additional code - Example: 1320300003.

<v_string250>

Value for the corresponding selected civic address.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med location-tlv elin-addr <v_word25>

Syntax

```
lldp med location-tlv elin-addr <v_word25>
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

location-tlv

LLDP-MED Location Type Length Value parameter.

elin-addr

Emergency Location Identification Number, (e.g. E911 and others), such as defined by TIA or NENA.

<v_word25>

ELIN value

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med location-tlv latitude

Syntax

```
lldp med location-tlv latitude { north | south } <v_word8>
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

location-tlv

LLDP-MED Location Type Length Value parameter.

latitude

Latitude parameter.

north

Setting latitude direction to north.

south

Setting latitude direction to south.

<v_word8>

Latitude degrees (0.0000-90.0000).

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med location-tlv longitude

Syntax

```
lldp med location-tlv longitude { west | east } <v_word9>
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

location-tlv

LLDP-MED Location Type Length Value parameter.

longitude

Longitude parameter.

west

Setting longitude direction to west.

east

Setting longitude direction to east.

<v_word9>

Longitude degrees (0.0000-180.0000).

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med media-vlan policy-list <v_range_list>

Syntax

```
lldp med media-vlan policy-list <v_range_list>
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

media-vlan

Media VLAN assigment.

policy-list

Assignment of policies.

<v_range_list>

Policies to assign to the interface.

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp med media-vlan-policy <policy_index>

Syntax

```
lldp med media-vlan-policy <policy_index> { voice | voice-signaling | guest-
voice-signaling | guest-voice | softphone-voice | video-conferencing |
streaming-video | video-signaling } { tagged <v_vlan_id> | untagged } [ l2-
priority <v_0_to_7> ] [ dscp <v_0_to_63> ]
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

media-vlan-policy

Use the media-vlan-policy to create a policy, which can be assigned to an interface.

<policy_index>

Policy id for the policy which is created.

voice

Create a voice policy.

voice-signaling

Create a voice signaling policy.

guest-voice-signaling

Create a guest voice signaling policy.

guest-voice

Create a guest voice policy.

softphone-voice

Create a softphone voice policy.

video-conferencing

Create a video conferencing policy.

streaming-video

Create a streaming video policy.

video-signaling

Create a video signaling policy.

tagged

The policy uses tagged frames.

<v_vlan_id>

The VLAN the policy uses tagged frames.

untagged

The policy uses un-tagged frames.

l2-priority

Layer 2 priority.

<v_0_to_7>

Priority 0-7

dscp

Differentiated Services Code Point.

<v_0_to_63>

DSCP value 0-63.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp med transmit-tlv

Syntax

```
lldp med transmit-tlv [ capabilities ] [ location ] [ network-policy ]
```

Syntax Description

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

transmit-tlv

LLDP-MED Location Type Length Value parameter.

capabilities

Enable transmission of the optional capabilities TLV.

location

Enable transmission of the optional location TLV.

network-policy

Enable transmission of the optional network-policy TLV.

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp receive

Syntax

```
lldp receive
```

Syntax Description

lldp

LLDP configurations.

receive

Enable/Disable decoding of received LLDP frames.

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp reinit <val>

Syntax

```
lldp reinit <val>
```

Syntax Description

lldp

LLDP configurations.

reinit

LLDP tx reinitialization delay in seconds.

<val>

1-10 seconds.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp timer <val>

Syntax

```
lldp timer <val>
```

Syntax Description

lldp

LLDP configurations.

timer

Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).

<val>

5-32768 seconds.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp tlv-select

Syntax

```
lldp tlv-select { management-address | port-description | system-capabilities |
system-description | system-name }
```

Syntax Description

lldp

LLDP configurations.

tlv-select

Which optional TLVs to transmit.

management-address

Enable/Disable transmission of management address.

port-description

Enable/Disable transmission of port description.

system-capabilities

Enable/Disable transmission of system capabilities.

system-description

Enable/Disable transmission of system description.

system-name

Enable/Disable transmission of system name.

Command Mode

Port List Interface Mode

Privilege level

15

----

lldp transmission-delay <val>

Syntax

```
lldp transmission-delay <val>
```

Syntax Description

lldp

LLDP configurations.

transmission-delay

Sets LLDP transmision-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will delayed after LLDP configuration has changed) in seconds.)

<val>
1-8192 seconds.

Command Mode

Global Configuration Mode

Privilege level

15

----

lldp transmit

Syntax

```
lldp transmit
```

Syntax Description

lldp
LLDP configurations.

transmit
Enable/Disabled transmision of LLDP frames.

Command Mode

Port List Interface Mode

Privilege level

15

----

location <location>

Syntax

```
location <location>
```

Syntax Description

location
Enter terminal location description

<location>
One text line describing the terminal's location in 32 char's

Command Mode

Line Configuration Mode

Privilege level

15

----

logging host

Syntax

```
logging host { <v_ipv4_ucast> | <v_word45> }
```

Syntax Description

logging
> Syslog

host
> host

<v_ipv4_ucast>
> IP address of the log server

<v_word45>
> Donain name of the log server

Command Mode
Global Configuration Mode

Privilege level
15

----

logging level

Syntax

```
logging level { info | warning | error }
```

Syntax Description

logging
> Syslog

level
> level

info
> Information

warning
> Warning

error
> Error

Command Mode
Global Configuration Mode

Privilege level
15

----

logging on

Syntax
logging on

Syntax Description

logging
Syslog

on
Enable syslog server

Command Mode
Global Configuration Mode

Privilege level
15

----

logout

Syntax
logout

Syntax Description

logout
Exit from EXEC mode

Command Mode
User EXEC Mode

Privilege level
0

----

loop-protect

Syntax

```
loop-protect
```

Syntax Description

loop-protect

Loop protection configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

loop-protect

Syntax

```
loop-protect
```

Syntax Description

loop-protect

Loop protection configuration on port

Command Mode

Port List Interface Mode

Privilege level

15

----

loop-protect action

Syntax

```
loop-protect action { [ shutdown ] [ log ] }
```

Syntax Description

loop-protect

Loop protection configuration on port

action

Action if loop detected

shutdown

> Shutdown port

log

> Generate log

Command Mode

Port List Interface Mode

Privilege level

15

----

loop-protect shutdown-time <t>

Syntax

```
loop-protect shutdown-time <t>
```

Syntax Description

loop-protect

> Loop protection configuration

shutdown-time

> Loop protection shutdown time interval

<t>

> Shutdown time in second

Command Mode

Global Configuration Mode

Privilege level

15

----

loop-protect transmit-time <t>

Syntax

```
loop-protect transmit-time <t>
```

Syntax Description

loop-protect

> Loop protection configuration

transmit-time

> Loop protection transmit time interval

<t>
Transmit time in second

Command Mode

Global Configuration Mode

Privilege level

15

----

loop-protect tx-mode

Syntax

```
loop-protect tx-mode
```

Syntax Description

loop-protect
Loop protection configuration on port

tx-mode
Actively generate PDUs

Command Mode

Port List Interface Mode

Privilege level

15

----

mac address-table aging-time <v_0_10_to_1000000>

Syntax

```
mac address-table aging-time <v_0_10_to_1000000>
```

Syntax Description

mac
Mac Address Table

address-table
Mac Address Table

aging-time
Mac address aging time

<v_0_10_to_1000000>
Aging time in seconds, 0 disables aging

Command Mode

Global Configuration Mode

Privilege level

15

----

mac address-table learning

Syntax

```
mac address-table learning [ secure ]
```

Syntax Description

mac

MAC keyword

address-table

MAC table configuration

learning

Port learning mode

secure

Port Secure mode

Command Mode

Port List Interface Mode

Privilege level

15

---mac address-table static
<v_mac_addr> vlan <v_vlan_id>

----

interface <port_type>

Syntax

```
mac address-table static <v_mac_addr> vlan <v_vlan_id> interface <port_type> [
<v_port_type_list> ]
```

Syntax Description

mac

MAC table entries/configuration

address-table

MAC table entries/configuration

static

Static MAC address

<v_mac_addr>

48 bit MAC address: xx:xx:xx:xx:xx:xx

vlan

VLAN keyword

<v_vlan_id>

VLAN IDs 1-4095

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

Global Configuration Mode

Privilege level

15

----

media-type

Syntax

```
media-type { rj45 | sfp | dual }
```

Syntax Description

media-type

Media type.

rj45

rj45 interface (copper interface).

sfp

sfp interface (fiber interface).

dual
>   Dual media interface (cu & fiber interface).

Command Mode
Port List Interface Mode

Privilege level
15

----

meg-level <mel>

Syntax
```
meg-level <mel>
```

Syntax Description

meg-level
>   Set profile MEG level used in TST PDUs.

<mel>
>   MEG level

Command Mode
RFC2544 Profile Mode

Privilege level
15

----

mep <inst>

Syntax
```
mep <inst> [ mip ] { up | down } domain { port | evc | vlan } [ vid <vid> ]
flow <flow> level <level> interface <port_type> <port>
```

Syntax Description

mep
>   Maintenance Entity Point

<inst>
>   The MEP instance number.

mip
>   This MEP instance is a half-MIP.

up
>   This MEP is a UP-MEP.

down

> This MEP is a Down-MEP.

domain

> The domain of the MEP.

port

> This MEP is a Port domain MEP.

evc

> This MEP is a EVC domain MEP.

vlan

> This MEP is a VLAN domain MEP.

vid

> In case the MEP is a port Up-MEP or a EVC customer MIP the VID must be given.

<vid>

> The port Domain MEP VID. This is required for a Port Up-MEP.

flow

> The flow instance that the MEP is related to.

<flow>

> The flow instance number when not in the port domain.

level

> The MEG level of the MEP.

<level>

> The MEG level value.

interface

> The recidence port of the MEP.

<port_type>

> Port type in Fast, Giga or Tengiga ethernet

<port>

> Port ID in the format of switch-no/port-no

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> ais

Syntax

```
mep <inst> ais [ fr1s | fr1m ] [ protect ]
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

ais

Alarm Indication Signal

fr1s

Frame rate is 1 f/s.

fr1m

Frame rate is 1 f/min.

protect

The AIS can be used for protection. At the point of state change three AIS PDU is transmitted as fast as possible.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> aps <prio>

Syntax

```
mep <inst> aps <prio> [ multi | uni ] { laps | { raps [ octet <octet> ] } }
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

aps

Automatic Protection Switching protocol.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

multi

OAM PDU is transmitted with multicast MAC. Must me 'multi' in case of RAPS.

uni

OAM PDU is transmitted with unicast MAC. The MAC is taken from peer MEP MAC database. Only possible in case of LAPS.

laps

Linear Automatic Protection Switching protocol.

raps

Ring Automatic Protection Switching protocol.

octet

Then last OCTET in the multivast MAC. Only possible in case of RAPS.

<octet>

Last OCTET value

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> cc <prio>

Syntax

```
mep <inst> cc <prio> [ fr300s | fr100s | fr10s | fr1s | fr6m | fr1m | fr6h ]
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

cc

Continuity Check.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

fr300s

Frame rate is 300 f/s.

fr100s

Frame rate is 100 f/s.

fr10s

Frame rate is 10 f/s.

fr1s

Frame rate is 1 f/s.

fr6m

Frame rate is 6 f/min.

fr1m
> Frame rate is 1 f/min.

fr6h
> Frame rate is 6 f/hour.

Command Mode
Global Configuration Mode

Privilege level
15

---

mep <inst> client domain

Syntax
```
mep <inst> client domain { evc | vlan }
```

Syntax Description

mep
> Maintenance Entity Point.

<inst>
> The MEP instance number.

client
> Transport layer Client.

domain
> Domain.

evc
> EVC Domain.

vlan
> Vlan Domain

Command Mode
Global Configuration Mode

Privilege level
15

---

mep <inst> client flow <cflow> level <level>

Syntax
```
mep <inst> client flow <cflow> level <level> [ ais-prio [ <aisprio> | ais-
```

```
highest ] ] [ lck-prio [ <lckprio> | lck-highest ] ]
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

client

client

flow

flow

<cflow>

<cflow>

level

level

<level>

ais-prio

ais-prio

<aisprio>

<aisprio>

ais-highest

ais-highest

lck-prio

lck-prio

<lckprio>

<lckprio>

lck-highest

lck-highest

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> dm <prio>

Syntax

```
mep <inst> dm <prio> [ multi | { uni mep-id <mepid> } ] [ single | dual ] [
rdtrp | flow ] interval <interval> last-n <lastn>
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

multi

OAM PDU is transmitted with multicast MAC.

uni

OAM PDU is transmitted with unicast MAC. The MAC is taken from peer MEP MAC database.

mep-id

Peer MEP-ID for unicast DM. The MAC is taken from peer MEP MAC database.

<mepid>

Peer MEP-ID value.

single

Delay Measurement based on DMM/DMR PDU.

dual

Delay Measurement based on 1DM PDU transmission.

rdtrp

The two way delay is calculated as round trip delay. The far end residence time is not subtracted.

flow

The two way delay is calculated as round trip symmetrical flow delay. The far end residence time is subtracted.

interval

Interval between PDU transmission in 10ms. Min value is 10.

<interval>

Interval value.

last-n

The last N dalays used for average last N calculation. Min value is 10.

<lastn>

    The last N value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> dm ns

Syntax

```
mep <inst> dm ns
```

Syntax Description

mep

    Maintenance Entity Point

<inst>

    The MEP instance number.

dm

    Delay Measurement.

ns

    Nano Seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> dm overflow-reset

Syntax

```
mep <inst> dm overflow-reset
```

Syntax Description

mep

    Maintenance Entity Point

<inst>

    The MEP instance number.

dm

   Delay Measurement.

overflow-reset

   Reset all Delay Measurement results on total delay counter overflow.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> dm proprietary

Syntax

```
mep <inst> dm proprietary
```

Syntax Description

mep

   Maintenance Entity Point

<inst>

   The MEP instance number.

dm

   Delay Measurement.

proprietary

   Proprietary Delay Measurement.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> dm syncronized

Syntax

```
mep <inst> dm syncronized
```

Syntax Description

mep

   Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

syncronized

Near enad and far end is real time syncronized.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> lb <prio>

Syntax

```
mep <inst> lb <prio> [ dei ] [ multi | { uni { { mep-id <mepid> } | { mac <mac>
} } } ] count <count> size <size> interval <interval>
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

lb

Loop Back.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

dei

Drop Eligible Indicator in case of tagged OAM.

multi

OAM PDU is transmitted with multicast MAC.

uni

OAM PDU is transmitted with unicast MAC. The MAC is taken from peer MEP MAC database.

mep-id

Peer MEP-ID for unicast LB. The MAC is taken from peer MEP MAC database.

<mepid>

Peer MEP-ID value

mac

Loop Back unicast MAC to be used in case of LB against MIP.

<mac>

Loop Back target unicast MAC value.

count

The number of LBM PDU to send in one loop test. The value 0 indicate infinite transmission (test behaviour). This is HW based LBM/LBR and Requires VOE.

<count>

Number of LBM PDU to send value.

size

The number of bytes in the LBM PDU Data Pattern TLV

<size>

The LBM frame size. This is entered as the wanted size (in bytes) of a un-tagged frame containing LBM OAM PDU - including CRC (four bytes). Example when 'Size' = 64 => Un-tagged frame size = DMAC(6) + SMAC(6) + TYPE(2) + LBM PDU LENGTH(46) + CRC(4) = 64 bytes. The transmitted frame will be four bytes longer for each tag added - 8 bytes in case of a tunnel EVC. Minimum Size is 64 Bytes. Maximum Size is 9600 Bytes BYWORD =

interval

The number of bytes in the LBM PDU Data Pattern TLV

<interval>

The interval between transmitting LBM PDU. in case 'count' != 0 this is in 10ms and max is 100. In case 'count' == 0 this is in 1us and max is 10.000.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> lck

Syntax

```
mep <inst> lck [ fr1s | fr1m ]
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

lck

Locked Signal.

fr1s

Frame rate is 1 f/s.

fr1m

Frame rate is 1 f/min.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> level <level>

Syntax

```
mep <inst> level <level>
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

level

The MEG level of the MEP.

<level>

The MEG level value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> lm <prio>

Syntax

```
mep <inst> lm <prio> [ multi | uni ] [ single | dual ] [ fr10s | fr1s | fr6m |
fr1m | fr6h ] [ flr <flr> ]
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

lm

Loss Measurement.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

multi

OAM PDU is transmitted with multicast MAC.

uni

OAM PDU is transmitted with unicast MAC. The MAC is taken from peer MEP MAC database. In case of LM there is only one peer MEP.

single

Single ended LM is based on LMM/LMR PDU.

dual

Dual ended LM is based on CCM PDU.

fr10s

Frame rate is 10 f/s.

fr1s

Frame rate is 1 f/s.

fr6m

Frame rate is 6 f/min.

fr1m

Frame rate is 1 f/min.

fr6h

Frame rate is 6 f/hour.

flr

The Frame Loss Ratio interval.

<flr>

The Frame Loss Ratio interval value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> lt <prio>

Syntax

```
mep <inst> lt <prio> { { mep-id <mepid> } | { mac <mac> } } ttl <ttl>
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

lt

Link Trace.

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

mep-id

Peer MEP-ID for Link Trace target unicast MAC. The MAC is taken from peer MEP MAC database.

<mepid>

Peer MEP-ID value.

mac

Link Trace target unicast MAC to be used in case of LT against MIP.

<mac>

Link Trace target unicast MAC value.

ttl

Time To Live.

<ttl>

Time To Live value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> meg-id <megid>

Syntax

```
mep <inst> meg-id <megid> { itu | itu-cc | { ieee [ name <name> ] } }
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

meg-id

The ITU/IEEE MEG-ID.

<megid>

The MEG-ID string. This is either the ITU MEG-ID or the IEEE Short MA, depending on the selected MEG-ID format. The ITU max. is 13 characters. The ITU-CC max. is 15 characters. The IEEE max. is 16 characters.

itu

The MEG-ID has ITU format (ICC - UMC). The meg-id max. is 13 characters.

itu-cc

The MEG-ID has ITU Country Code format (CC - ICC - UMC). The meg-id max. is 15 characters

ieee

The MEG-ID (Short MA Name) has IEEE Character String format. The meg-id max. is 16 characters.

name

Only relevant for IEEE. The MAID is with Maintenance Domain Name.

<name>

Maintenance Domain Name string. The max is 16 characters.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> mep-id <mepid>

Syntax

```
mep <inst> mep-id <mepid>
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

mep-id

The MEP-ID.

<mepid>

The MEP-ID value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> peer-mep-id <mepid>

Syntax

```
mep <inst> peer-mep-id <mepid> [ mac <mac> ]
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

peer-mep-id

The peer MEP-ID.

<mepid>

The peer MEP-ID value.

mac

The peer MAC. this will be overwritten by any learned MAC - through CCM reception.

<mac>

The peer MAC string.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> tst <prio>

Syntax

```
mep <inst> tst <prio> [ dei ] mep-id <mepid> [ sequence ] [ all-zero | all-one
| one-zero ] rate <rate> size <size>
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

tst

Test Signal

<prio>

Priority in case of tagged OAM. In the EVC domain this is the COS-ID.

dei

Drop Eligible Indicator in case of tagged OAM.

mep-id

Peer MEP-ID for unicast TST. The MAC is taken from peer MEP MAC database.

<mepid>

Peer MEP-ID value.

sequence

Enable sequence number in TST PDU.

all-zero

Test pattern is set to all zero.

all-one

Test pattern is set to all one.

one-zero

Test pattern is set to 10101010.

rate

The TST frame transmission bit rate - in Mega bits pr. second. Limit on Caracal is 400 Mbps. Limit on Serval is 1Gbps. This is the bit rate of a standard frame without any encapsulation. If 1 Mbps rate is selected in a EVC MEP, the added tag will give a higher bitrate on the wire.

<rate>

Transmission rate value.

size

The TST frame size. This is entered as the wanted size (in bytes) of a un-tagged frame containing TST OAM PDU - including CRC (four bytes). Example when 'Size' = 64 => Un-tagged frame size = DMAC(6) + SMAC(6) + TYPE(2) + TST PDU LENGTH(46) + CRC(4) = 64 bytes. The transmitted frame will be four bytes longer for each tag added - 8 bytes in case of a tunnel EVC. Minimum Size is 64 Bytes. Maximum Size is 9600 Bytes.

<size>

Frame size value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> tst rx

Syntax

```
mep <inst> tst rx
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

tst

Test Signal.

rx

Receive Test Signal.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> tst tx

Syntax

```
mep <inst> tst tx
```

Syntax Description

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

tst

Test Signal.

tx

Transmit Test Signal.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> vid <vid>

Syntax

```
mep <inst> vid <vid>
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

vid

The MEP VID.

<vid>

The MEP VID value.

Command Mode

Global Configuration Mode

Privilege level

15

----

mep <inst> voe

Syntax

```
mep <inst> voe
```

Syntax Description

mep

Maintenance Entity Point

<inst>

The MEP instance number.

voe

MEP is VOE based.

Command Mode

Global Configuration Mode

Privilege level

15

----

monitor destination interface <port_type> <in_port_type>

Syntax

    monitor destination interface <port_type> <in_port_type>

Syntax Description

monitor

Set monitor configuration.

destination

The destination port. That is the port that trafficed should be mirrored to.

interface

Interface to mirror traffic to.

<port_type>

<port_type>

<in_port_type>

<in_port_type>

Command Mode

Global Configuration Mode

Privilege level

15

----

monitor source

Syntax

    monitor source { { interface <port_type> [<v_port_type_list>] } | { cpu [
    <cpu_switch_range>] } } { both | rx | tx }

Syntax Description

monitor

monitor

source

source

interface

interface

\<port_type\>

  \<port_type\>

\<v_port_type_list\>

  \<v_port_type_list\>

cpu

  cpu

\<cpu_switch_range\>

  \<cpu_switch_range\>

both

  both

rx

  rx

tx

  tx

Command Mode

Global Configuration Mode

Privilege level

15

----

more \<path\>

Syntax

```
more <path>
```

Syntax Description

more

  Display file

\<path\>

  File in FLASH or on TFTP server

Command Mode

User EXEC Mode

Privilege level

15

----

motd-banner

Syntax

```
motd-banner
```

Syntax Description

motd-banner
    Enable the display of the MOTD banner

Command Mode

Line Configuration Mode

Privilege level

15

----

mpls evc <evc_idx> server-xc

Syntax

```
mpls evc <evc_idx> server-xc { [ in <in_xc_idx> ] [ out <out_xc_idx> ] }
```

Syntax Description

mpls
    mpls

evc
    evc

<evc_idx>
    <evc_idx>

server-xc
    server-xc

in
    in

<in_xc_idx>
    <in_xc_idx>

out
    out

<out_xc_idx>
    <out_xc_idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls l2 <idx> port <port> peer <peer> self <self>

Syntax

```
mpls l2 <idx> port <port> peer <peer> self <self> [ { c-tag | s-tag } <vid> [
pcp <pcp> dei <dei> ] ]
```

Syntax Description

mpls

    mpls

l2

    l2

<idx>

    <idx>

port

    port

<port>

    <port>

peer

    peer

<peer>

    <peer>

self

    self

<self>

    <self>

c-tag

    c-tag

s-tag

    s-tag

<vid>

    <vid>

pcp

    pcp

<pcp>

> <pcp>

dei

> dei

<dei>

> <dei>

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls qos-to-tc map <map>

Syntax

```
mpls qos-to-tc map <map> { dp0 | dp1 } <tc0> <tc1> <tc2> <tc3> <tc4> <tc5>
<tc6> <tc7>
```

Syntax Description

mpls

> mpls

qos-to-tc

> qos-to-tc

map

> map

<map>

> <map>

dp0

> dp0

dp1

> dp1

<tc0>

> <tc0>

<tc1>

> <tc1>

<tc2>

> <tc2>

<tc3>

> <tc3>

<tc4>

    <tc4>

<tc5>

    <tc5>

<tc6>

    <tc6>

<tc7>

    <tc7>

Command Mode

Global Configuration Mode

Privilege level

15

--**mpls tc-to-qos map <map> qos-dp <q0> <dp0> <q1> <dp1>**

---**<q2> <dp2> <q3> <dp3> <q4> <dp4> <q5> <dp5> <q6> <dp6>**

<q7> <dp7>

Syntax

```
mpls tc-to-qos map <map> qos-dp <q0> <dp0> <q1> <dp1> <q2> <dp2> <q3> <dp3>
<q4> <dp4> <q5> <dp5> <q6> <dp6> <q7> <dp7>
```

Syntax Description

mpls

    mpls

tc-to-qos

    tc-to-qos

map

    map

<map>

    <map>

qos-dp

qos-dp

<q0>

<q0>

<dp0>

<dp0>

<q1>

<q1>

<dp1>

<dp1>

<q2>

<q2>

<dp2>

<dp2>

<q3>

<q3>

<dp3>

<dp3>

<q4>

<q4>

<dp4>

<dp4>

<q5>

<q5>

<dp5>

<dp5>

<q6>

<q6>

<dp6>

<dp6>

<q7>

<q7>

<dp7>

<dp7>

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls xc <idx> init

Syntax

```
mpls xc <idx> init { lsr | { { ler-init | ler-term } [ pw [ cw ] ] } }
```

Syntax Description

mpls

mpls

xc

xc

<idx>

<idx>

init

init

lsr

lsr

ler-init

ler-init

ler-term

ler-term

pw

pw

cw

cw

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls xc <xc_idx> l2

Syntax

```
mpls xc <xc_idx> l2 { [ in <in_l2_idx> ] [ out <out_l2_idx> ] }
```

Syntax Description

mpls

mpls

xc

> xc

<xc_idx>

> <xc_idx>

l2

> l2

in

> in

<in_l2_idx>

> <in_l2_idx>

out

> out

<out_l2_idx>

> <out_l2_idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls xc <xc_idx> label

Syntax

```
mpls xc <xc_idx> label [ l-lsp | e-lsp ] { [ in <in_label> [ tc <in_tc> ] [ l-
lsp-qos <l_lsp_qos> ] [ tc-to-qos-map <tc_to_qos_map_idx> ] ] [ out <out_label>
[ tc <out_tc> ] [ ttl <out_ttl> ] [ qos-to-tc-map <qos_to_tc_map_idx> ] ] } [
tc-mode { pipe | short-pipe | uniform } ] [ ttl-mode { pipe | short-pipe |
uniform } ]
```

Syntax Description

mpls

> mpls

xc

> xc

<xc_idx>

> <xc_idx>

label

> label

l-lsp

> l-lsp

e-lsp

e-lsp

in

in

<in_label>

<in_label>

tc

tc

<in_tc>

<in_tc>

l-lsp-qos

l-lsp-qos

<l_lsp_qos>

<l_lsp_qos>

tc-to-qos-map

tc-to-qos-map

<tc_to_qos_map_idx>

<tc_to_qos_map_idx>

out

out

<out_label>

<out_label>

tc

tc

<out_tc>

<out_tc>

ttl

ttl

<out_ttl>

<out_ttl>

qos-to-tc-map

qos-to-tc-map

<qos_to_tc_map_idx>

<qos_to_tc_map_idx>

tc-mode

tc-mode

pipe

pipe

short-pipe

> short-pipe

uniform

> uniform

ttl-mode

> ttl-mode

pipe

> pipe

short-pipe

> short-pipe

uniform

> uniform

Command Mode

Global Configuration Mode

Privilege level

15

----

mpls xc <xc_idx> server

Syntax

```
mpls xc <xc_idx> server { [ in-xc <in_server_xc_idx> ] [ out-xc
<out_server_xc_idx> ] }
```

Syntax Description

mpls

> mpls

xc

> xc

<xc_idx>

> <xc_idx>

server

> server

in-xc

> in-xc

<in_server_xc_idx>

> <in_server_xc_idx>

out-xc

> out-xc

<out_server_xc_idx>
<out_server_xc_idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

mtu <max_length>

Syntax

```
mtu <max_length>
```

Syntax Description

mtu
Maximum transmission unit

<max_length>
Maximum frame size in bytes.

Command Mode

Port List Interface Mode

Privilege level

15

----

mvr

Syntax

```
mvr
```

Syntax Description

mvr
Multicast VLAN Registration configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr immediate-leave

Syntax

```
mvr immediate-leave
```

Syntax Description

mvr
Multicast VLAN Registration configuration

immediate-leave
Immediate leave configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

mvr name <mvr_name> channel <profile_name>

Syntax

```
mvr name <mvr_name> channel <profile_name>
```

Syntax Description

mvr
Multicast VLAN Registration configuration

name
MVR multicast name

<mvr_name>
MVR multicast VLAN name

channel
MVR channel configuration

<profile_name>
Profile name in 16 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr name <mvr_name> frame priority <cos_priority>

Syntax

```
mvr name <mvr_name> frame priority <cos_priority>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>

MVR multicast VLAN name

frame

MVR control frame in TX

priority

Interface CoS priority

<cos_priority>

CoS priority ranges from 0 to 7

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr name <mvr_name> frame tagged

Syntax

```
mvr name <mvr_name> frame tagged
```

Syntax Description

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>

MVR multicast VLAN name

frame

MVR control frame in TX

tagged
> Tagged IGMP/MLD frames will be sent

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr name <mvr_name> igmp-address <v_ipv4_ucast>

Syntax

```
mvr name <mvr_name> igmp-address <v_ipv4_ucast>
```

Syntax Description

mvr
> Multicast VLAN Registration configuration

name
> MVR multicast name

<mvr_name>
> MVR multicast VLAN name

igmp-address
> MVR address configuration used in IGMP

<v_ipv4_ucast>
> A valid IPv4 unicast address

Command Mode

Global Configuration Mode

Privilege level

15

--**mvr name <mvr_name>
last-member-query-interval**

<ipmc_lmqi>

Syntax

```
mvr name <mvr_name> last-member-query-interval <ipmc_lmqi>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>

MVR multicast VLAN name

last-member-query-interval

Last Member Query Interval in tenths of seconds

<ipmc_lmqi>

0 - 31744 tenths of seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr name <mvr_name> mode

Syntax

```
mvr name <mvr_name> mode { dynamic | compatible }
```

Syntax Description

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>
MVR multicast VLAN name

mode
MVR mode of operation

dynamic
Dynamic MVR operation mode

compatible
Compatible MVR operation mode

Command Mode
Global Configuration Mode

Privilege level
15

----

mvr name <mvr_name> type

Syntax
```
mvr name <mvr_name> type { source | receiver }
```

Syntax Description

mvr
Multicast VLAN Registration configuration

name
MVR multicast name

<mvr_name>
MVR multicast VLAN name

type
MVR port role configuration

source
MVR source port

receiver
MVR receiver port

Command Mode
Port List Interface Mode

Privilege level
15

----

mvr vlan <v_vlan_list>

Syntax

```
mvr vlan <v_vlan_list> [ name <mvr_name> ]
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

name

MVR multicast name

<mvr_name>

MVR multicast VLAN name

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr vlan <v_vlan_list> channel <profile_name>

Syntax

```
mvr vlan <v_vlan_list> channel <profile_name>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

channel

MVR channel configuration

<profile_name>

Profile name in 16 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr vlan <v_vlan_list> frame priority <cos_priority>

Syntax

```
mvr vlan <v_vlan_list> frame priority <cos_priority>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

frame

MVR control frame in TX

priority

Interface CoS priority

<cos_priority>

CoS priority ranges from 0 to 7

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr vlan <v_vlan_list> frame tagged

Syntax

```
mvr vlan <v_vlan_list> frame tagged
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

frame

MVR control frame in TX

tagged

Tagged IGMP/MLD frames will be sent

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr vlan <v_vlan_list> igmp-address <v_ipv4_ucast>

Syntax

```
mvr vlan <v_vlan_list> igmp-address <v_ipv4_ucast>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

igmp-address

MVR address configuration used in IGMP

<v_ipv4_ucast>

A valid IPv4 unicast address

Command Mode

Global Configuration Mode

Privilege level

15

--mvr vlan <v_vlan_list>
last-member-query-interval

<ipmc_lmqi>

Syntax

```
mvr vlan <v_vlan_list> last-member-query-interval <ipmc_lmqi>
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

last-member-query-interval

Last Member Query Interval in tenths of seconds

<ipmc_lmqi>

0 - 31744 tenths of seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

mvr vlan <v_vlan_list> mode

Syntax

```
mvr vlan <v_vlan_list> mode { dynamic | compatible }
```

Syntax Description

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>
> MVR multicast VLAN list

mode
> MVR mode of operation

dynamic
> Dynamic MVR operation mode

compatible
> Compatible MVR operation mode

Command Mode
Global Configuration Mode

Privilege level
15

----

mvr vlan <v_vlan_list> type

Syntax
```
mvr vlan <v_vlan_list> type { source | receiver }
```

Syntax Description

mvr
> Multicast VLAN Registration configuration

vlan
> MVR multicast vlan

<v_vlan_list>
> MVR multicast VLAN list

type
> MVR port role configuration

source
> MVR source port

receiver
> MVR receiver port

Command Mode
Port List Interface Mode

Privilege level
15

----

name <vlan_name>

Syntax

```
name <vlan_name>
```

Syntax Description

name
    ASCII name of the VLAN

<vlan_name>
    The ASCII name for the VLAN

Command Mode

VLAN Configuration Mode

Privilege level

13

----

netbios-name-server <ip>

Syntax

```
netbios-name-server <ip> [ <ip1> [ <ip2> [ <ip3> ] ] ]
```

Syntax Description

netbios-name-server
    NetBIOS (WINS) name servers

<ip>
    Server's IP address

<ip1>
    Server's IP address

<ip2>
    Server's IP address

<ip3>
    Server's IP address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

netbios-node-type

Syntax

```
netbios-node-type { b-node | h-node | m-node | p-node }
```

Syntax Description

netbios-node-type
NetBIOS node type

b-node
Broadcast node

h-node
Hybrid node

m-node
Mixed node

p-node
Peer-to-peer node

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

netbios-scope <netbios_scope>

Syntax

```
netbios-scope <netbios_scope>
```

Syntax Description

netbios-scope
NetBIOS scope

<netbios_scope>
Netbios scope identifier, in 128 characters

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

network <ip> <subnet_mask>

Syntax

```
network <ip> <subnet_mask>
```

Syntax Description

network

Network number and mask

<ip>

Network number

<subnet_mask>

Network mask in dotted-decimal notation, excluding 255.255.255.255

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

nis-domain-name <domain_name>

Syntax

```
nis-domain-name <domain_name>
```

Syntax Description

nis-domain-name

NIS domain name

<domain_name>

NIS domain name

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

nis-server <ip>

Syntax

```
nis-server <ip> [ <ip1> [ <ip2> [ <ip3> ] ] ]
```

Syntax Description

nis-server

   Network information servers

<ip>

   Server's IP address

<ip1>

   Server's IP address

<ip2>

   Server's IP address

<ip3>

   Server's IP address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no aaa authentication login

Syntax

```
no aaa authentication login { console | telnet | ssh | http }
```

Syntax Description

no

   no

aaa

   aaa

authentication

   authentication

login

   login

console

   console

telnet
>   telnet

ssh
>   ssh

http
>   http

Command Mode
Global Configuration Mode

Privilege level
15

----

no access management

Syntax
>   no access management

Syntax Description

no
>   Negate a command or set its defaults

access
>   Access management

management
>   Access management configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

no access management <access_id_list>

Syntax
>   no access management <access_id_list>

Syntax Description

no
>   Negate a command or set its defaults

access

Access management

management

Access management configuration

<access_id_list>

ID of access management entry

Command Mode

Global Configuration Mode

Privilege level

15

----

no access-list ace <ace_list>

Syntax

```
no access-list ace <ace_list>
```

Syntax Description

no

Negate a command or set its defaults

access-list

Access list

ace

Access list entry

<ace_list>

ACE ID

Command Mode

Global Configuration Mode

Privilege level

15

----

no access-list evc-policer

Syntax

```
no access-list evc-policer
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

evc-policer
> EVC policer

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list logging

Syntax

```
no access-list logging
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

logging
> Logging frame information. Note: The logging feature only works when the packet length is less than 1518 (without VLAN tags) and the System Log memory size and logging rate is limited.

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list mirror

Syntax

```
no access-list mirror
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

mirror
> Mirror frame to destination mirror port

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list policy

Syntax

```
no access-list policy
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

policy
> Policy

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list port-state

Syntax

```
no access-list port-state
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

port-state
> Re-enable shutdown port that was shutdown by access-list module

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list rate-limiter

Syntax

```
no access-list rate-limiter
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

rate-limiter
> Rate limiter

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list shutdown

Syntax

```
no access-list shutdown
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

shutdown
> Shutdown incoming port. The shutdown feature only works when the packet length is less than 1518 (without VLAN tags).

Command Mode

Port List Interface Mode

Privilege level

15

----

no access-list

Syntax

```
no access-list { redirect | port-copy }
```

Syntax Description

no
> Negate a command or set its defaults

access-list
> Access list

redirect
> Redirect frame to specific port

port-copy
> Copy frame to specific port

Command Mode

Port List Interface Mode

Privilege level

15

----

no aggregation group

Syntax

```
no aggregation group
```

Syntax Description

no
> Negate a command or set its defaults

aggregation
> Aggregation keyword

group
> Aggregation group

Command Mode

Port List Interface Mode

Privilege level

15

----

no aggregation mode

Syntax

```
no aggregation mode
```

Syntax Description

no
> Negate a command or set its defaults

aggregation
> Aggregation mode

mode
> Traffic distribution mode

Command Mode

Global Configuration Mode

Privilege level

15

----

no back-to-back

Syntax

```
no back-to-back
```

Syntax Description

no

> no

back-to-back

> back-to-back

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no banner

Syntax

```
no banner [ motd ]
```

Syntax Description

no

> Negate a command or set its defaults

banner

> Define a login banner

motd

> Set Message of the Day banner

Command Mode

Global Configuration Mode

Privilege level

15

----

no banner exec

Syntax

```
no banner exec
```

Syntax Description

no

> Negate a command or set its defaults

banner
> Define a login banner

exec
> Set EXEC process creation banner

Command Mode

Global Configuration Mode

Privilege level

15

----

no banner login

Syntax

```
no banner login
```

Syntax Description

no
> Negate a command or set its defaults

banner
> Define a login banner

login
> Set login banner

Command Mode

Global Configuration Mode

Privilege level

15

----

no broadcast

Syntax

```
no broadcast
```

Syntax Description

no
> Negate a command or set its defaults

broadcast
> Broadcast address in use on the client's subnet

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no client-identifier

Syntax

```
no client-identifier
```

Syntax Description

no
> Negate a command or set its defaults

client-identifier
> Client identifier

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no client-name

Syntax

```
no client-name
```

Syntax Description

no
> Negate a command or set its defaults

client-name
> Client host name

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no clock summer-time

Syntax

```
no clock summer-time
```

Syntax Description

no
Negate a command or set its defaults

clock
Configure time-of-day clock

summer-time
Configure summer (daylight savings) time

Command Mode

Global Configuration Mode

Privilege level

13

----

no clock timezone

Syntax

```
no clock timezone
```

Syntax Description

no
Negate a command or set its defaults

clock
Configure time-of-day clock

timezone
Configure time zone

Command Mode

Global Configuration Mode

Privilege level

13

----

no debug prompt

Syntax

```
no debug prompt
```

Syntax Description

no
Negate a command or set its defaults

debug
Debugging functions

prompt
Clear prompt for testing

Command Mode

User EXEC Mode

Privilege level

0

----

no default-router

Syntax

```
no default-router
```

Syntax Description

no
Negate a command or set its defaults

default-router
Default routers

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no description

Syntax

```
no description
```

Syntax Description

no

Negate a command or set its defaults

description

Additional description about the profile in 64 char's

Command Mode

IPMC Profile Mode

Privilege level

15

----

no description

Syntax

```
no description
```

Syntax Description

no

no

description

description

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no dmac

Syntax

```
no dmac
```

Syntax Description

no
> no

dmac
> dmac

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no dns-server

Syntax

```
no dns-server
```

Syntax Description

no
> Negate a command or set its defaults

dns-server
> DNS servers

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no domain-name

Syntax

```
no domain-name
```

Syntax Description

no
> Negate a command or set its defaults

domain-name
> Domain name

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no dot1x authentication timer inactivity

Syntax

```
no dot1x authentication timer inactivity
```

Syntax Description

no
> no

dot1x
> dot1x

authentication
> authentication

timer
> timer

inactivity
> inactivity

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x authentication timer re-authenticate

Syntax

```
no dot1x authentication timer re-authenticate
```

Syntax Description

no
> no

dot1x
> dot1x

authentication
>   authentication

timer
>   timer

re-authenticate
>   re-authenticate

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x feature

Syntax

```
no dot1x feature { [ guest-vlan ] [ radius-qos ] [ radius-vlan ] }
```

Syntax Description

no
>   Negate a command or set its defaults

dot1x
>   IEEE Standard for port-based Network Access Control

feature
>   Globally enables/disables a dot1x feature functionality

guest-vlan
>   Globally enables/disables state of guest-vlan

radius-qos
>   Globally enables/disables state of RADIUS-assigned QoS.

radius-vlan
>   Globally enables/disables state of RADIUS-assigned VLAN.

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x guest-vlan

Syntax

```
no dot1x guest-vlan
```

Syntax Description

no

Negate a command or set its defaults

dot1x

IEEE Standard for port-based Network Access Control

guest-vlan

Enables/disables guest VLAN

Command Mode

Port List Interface Mode

Privilege level

15

----

no dot1x guest-vlan

Syntax

```
no dot1x guest-vlan
```

Syntax Description

no

no

dot1x

dot1x

guest-vlan

guest-vlan

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x guest-vlan supplicant

Syntax

```
no dot1x guest-vlan supplicant
```

Syntax Description

no

Negate a command or set its defaults

dot1x

IEEE Standard for port-based Network Access Control

guest-vlan

Guest VLAN

supplicant

The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame has been received on the port for the life-time of the port.

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x max-reauth-req

Syntax

```
no dot1x max-reauth-req
```

Syntax Description

no

no

dot1x

dot1x

max-reauth-req

max-reauth-req

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x port-control

Syntax

```
no dot1x port-control
```

Syntax Description

no

    no

dot1x

    dot1x

port-control

    port-control

Command Mode

Port List Interface Mode

Privilege level

15

----

no dot1x radius-qos

Syntax

```
no dot1x radius-qos
```

Syntax Description

no

    Negate a command or set its defaults

dot1x

    IEEE Standard for port-based Network Access Control

radius-qos

    Enables/disables per-port state of RADIUS-assigned QoS.

Command Mode

Port List Interface Mode

Privilege level

15

----

no dot1x radius-vlan

Syntax

```
no dot1x radius-vlan
```

Syntax Description

no
> Negate a command or set its defaults

dot1x
> IEEE Standard for port-based Network Access Control

radius-vlan
> Enables/disables per-port state of RADIUS-assigned VLAN.

Command Mode

Port List Interface Mode

Privilege level

15

----

no dot1x re-authentication

Syntax

```
no dot1x re-authentication
```

Syntax Description

no
> Negate a command or set its defaults

dot1x
> IEEE Standard for port-based Network Access Control

re-authentication
> Set Re-authentication state

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x system-auth-control

Syntax

    no dot1x system-auth-control

Syntax Description

no

Negate a command or set its defaults

dot1x

IEEE Standard for port-based Network Access Control

system-auth-control

Set the global NAS state

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x timeout quiet-period

Syntax

    no dot1x timeout quiet-period

Syntax Description

no

no

dot1x

dot1x

timeout

timeout

quiet-period

quiet-period

Command Mode

Global Configuration Mode

Privilege level

15

----

no dot1x timeout tx-period

Syntax

```
no dot1x timeout tx-period
```

Syntax Description

no
> no

dot1x
> dot1x

timeout
> timeout

tx-period
> tx-period

Command Mode

Global Configuration Mode

Privilege level

15

----

no duplex

Syntax

```
no duplex
```

Syntax Description

no
> no

duplex
> duplex

Command Mode

Port List Interface Mode

Privilege level

15

----

no dwell-time

Syntax

    no dwell-time

Syntax Description

no
   no

dwell-time
   dwell-time

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no editing

Syntax

    no editing

Syntax Description

no
   Negate a command or set its defaults

editing
   Enable command line editing

Command Mode

Line Configuration Mode

Privilege level

13

----

no enable password

Syntax

    no enable password [level <priv>]

Syntax Description

no

    Negate a command or set its defaults

enable

    Modify enable password parameters

password

    Assign the privileged level clear password

level

    Set exec level password

<priv>

    Level number

Command Mode

Global Configuration Mode

Privilege level

15

----

no enable secret

Syntax

```
no enable secret { [ 0 | 5 ] } [ level <priv> ]
```

Syntax Description

no

    Negate a command or set its defaults

enable

    Modify enable password parameters

secret

    Assign the privileged level secret

0

    Specifies an UNENCRYPTED password will follow

5

    Specifies an ENCRYPTED secret will follow

level

    Set exec level password

<priv>

    Level number

Command Mode

Global Configuration Mode

Privilege level

15

----

no eps <inst>

Syntax

```
no eps <inst>
```

Syntax Description

no
  Delete

eps
  Ethernet Protection Switching.

<inst>
  The EPS instance number.

Command Mode

Global Configuration Mode

Privilege level

15

----

no eps <inst> command

Syntax

```
no eps <inst> command
```

Syntax Description

no
  Clear command.

eps
  Ethernet Protection Switching

<inst>
  The EPS instance number.

command
  Clear command on EPS.

Command Mode

Global Configuration Mode

Privilege level

15

----

no eps <inst> holdoff

Syntax

```
no eps <inst> holdoff
```

Syntax Description

no

Disable holdoff timing.

eps

Ethernet Protection Switching

<inst>

The EPS instance number.

holdoff

holdoff

Command Mode

Global Configuration Mode

Privilege level

15

----

no eps <inst> revertive

Syntax

```
no eps <inst> revertive
```

Syntax Description

no

Disable revertive EPS.

eps

Ethernet Protection Switching

<inst>

The EPS instance number.

revertive
>   Revertive EPS.

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group>

Syntax

```
no erps <group>
```

Syntax Description

no
>   no

erps
>   erps

<group>
>   <group>

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> command

Syntax

```
no erps <group> command [ port0 ] [ port1 ]
```

Syntax Description

no
>   no

erps
>   erps

<group>
>   <group>

command
> command

port0
> port0

port1
> port1

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> guard

Syntax

```
no erps <group> guard
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

guard
> guard

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> holdoff

Syntax

```
no erps <group> holdoff
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

holdoff
> holdoff

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> mep

Syntax

```
no erps <group> mep
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

mep
> mep

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> revertive

Syntax

```
no erps <group> revertive
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

revertive
> revertive

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> rpl

Syntax

```
no erps <group> rpl
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

rpl
> rpl

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> topology-change propagate

Syntax

```
no erps <group> topology-change propagate
```

Syntax Description

no

Negate a command or set its defaults

erps

Ethernet Ring Protection Switching

<group>

ERPS group number

topology-change

Topology Change

propagate

Propagate

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> version

Syntax

```
no erps <group> version
```

Syntax Description

no

no

erps

erps

<group>

<group>

version
> version

Command Mode

Global Configuration Mode

Privilege level

15

----

no erps <group> vlan

Syntax

```
no erps <group> vlan
```

Syntax Description

no
> no

erps
> erps

<group>
> <group>

vlan
> vlan

Command Mode

Global Configuration Mode

Privilege level

15

----

no evc <evc_id>

Syntax

```
no evc <evc_id>
```

Syntax Description

no
> no

evc
> evc

<evc_id>
> <evc_id>

Command Mode

Global Configuration Mode

Privilege level

15

----

no evc ece <ece_id>

Syntax

```
no evc ece <ece_id>
```

Syntax Description

no
> no

evc
> evc

ece
> ece

<ece_id>
> <ece_id>

Command Mode

Global Configuration Mode

Privilege level

15

----

no excessive-restart

Syntax

```
no excessive-restart
```

Syntax Description

no
> Negate a command or set its defaults

excessive-restart
> Restart backoff algorithm after 16 collisions (No excessive-restart means discard frame after 16 collisions)

Command Mode

Port List Interface Mode

Privilege level

15

----

no exec-banner

Syntax

```
no exec-banner
```

Syntax Description

no
>   Negate a command or set its defaults

exec-banner
>   Enable the display of the EXEC banner

Command Mode

Line Configuration Mode

Privilege level

15

----

no exec-timeout

Syntax

```
no exec-timeout
```

Syntax Description

no
>   Negate a command or set its defaults

exec-timeout
>   Set the EXEC timeout

Command Mode

Line Configuration Mode

Privilege level

15

----

no flowcontrol

Syntax

```
no flowcontrol
```

Syntax Description

no
> Set to default

flowcontrol
> Configure flow control.

Command Mode

Port List Interface Mode

Privilege level

15

----

no frame-loss

Syntax

```
no frame-loss
```

Syntax Description

no
> no

frame-loss
> frame-loss

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no frame-sizes

Syntax

```
no frame-sizes
```

Syntax Description

no
> no

frame-sizes
> frame-sizes

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no green-ethernet eee

Syntax

```
no green-ethernet eee
```

Syntax Description

no
> Negate a command or set its defaults

green-ethernet
> Green ethernet (Power reduction)

eee
> Powering down of PHYs when there is no traffic.

Command Mode

Port List Interface Mode

Privilege level

15

----

no green-ethernet eee optimize-for-power

Syntax

```
no green-ethernet eee optimize-for-power
```

Syntax Description

no
> Negate a command or set its defaults

green-ethernet

Green ethernet (Power reduction)

eee

Powering down of PHYs when there is no traffic.

optimize-for-power

Set if EEE shall be optimized for least power comsumption (else optimized for least traffic latency).

Command Mode

Global Configuration Mode

Privilege level

15

----

no green-ethernet eee urgent-queues

Syntax

```
no green-ethernet eee urgent-queues [ <urgent_queue_range_list> ]
```

Syntax Description

no

Negate a command or set its defaults

green-ethernet

Green ethernet (Power reduction)

eee

Powering down of PHYs when there is no traffic.

urgent-queues

Enables EEE urgent queue. An urgent queue means that latency is kept to a minimum for traffic goin to that queue. Note: EEE power savings will be reduced.

<urgent_queue_range_list>

EEE Interface.

Command Mode

Port List Interface Mode

Privilege level

15

----

no green-ethernet energy-detect

Syntax

```
no green-ethernet energy-detect
```

Syntax Description

no

Negate a command or set its defaults

green-ethernet

Green ethernet (Power reduction)

energy-detect

Enable power saving for ports with no link partner.

Command Mode

Port List Interface Mode

Privilege level

15

----

no green-ethernet led interval <0~24>

Syntax

```
no green-ethernet led interval <0~24>
```

Syntax Description

no

Setting LEDs intensity to default for the specified interval.

green-ethernet

Green ethernet (Power reduction).

led

LED power reduction.

interval

Interval in whole hours at which to configure the LED intensity.

<0~24>

Interval from 00.00 to 24.00 (00 is used to start at midnight, while 24 is used to stop at midnight).

Command Mode

Global Configuration Mode

Privilege level

15

----

no green-ethernet led on-event

Syntax

```
no green-ethernet led on-event [ link-change ] [ error ]
```

Syntax Description

no

Setting the on-event to default.

green-ethernet

Green ethernet (Power reduction).

led

LED power reduction.

on-event

Specifies when to turn LEDs on at 100%% intensity.

link-change

Specifies how long to turn LEDs intensity to 100%%, when a link changes state.

error

Set the number of seconds which the LEDs intensity are set at 100%% at link change to default.

Command Mode

Global Configuration Mode

Privilege level

15

----

no green-ethernet short-reach

Syntax

```
no green-ethernet short-reach
```

Syntax Description

no

Negate a command or set its defaults

green-ethernet

Green ethernet (Power reduction)

short-reach
>   Enable power saving for ports which is connect to link partner with short cable.

Command Mode

Port List Interface Mode

Privilege level

15

----

no gvrp

Syntax

```
no gvrp
```

Syntax Description

no
>   Negate a command or set its defaults

gvrp
>   Enable GVRP feature

Command Mode

Global Configuration Mode

Privilege level

15

----

no gvrp

Syntax

```
no gvrp
```

Syntax Description

no
>   Negate a command or set its defaults

gvrp
>   Enable GVRP on port(s)

Command Mode

Port List Interface Mode

Privilege level

15

----

no gvrp max-vlans <maxvlans>

Syntax

```
no gvrp max-vlans <maxvlans>
```

Syntax Description

no

Negate a command or set its defaults

gvrp

gvrp

max-vlans

max-vlans

<maxvlans>

<maxvlans>

Command Mode

Global Configuration Mode

Privilege level

15

----

no gvrp time

Syntax

```
no gvrp time { [ join-time <jointime> ] [ leave-time <leavetime> ] [ leave-all-
time <leavealltime> ] }
```

Syntax Description

no

Negate a command or set its defaults

gvrp

gvrp

time

time

join-time

join-time

<jointime>

<jointime>

leave-time

> leave-time

<leavetime>

> <leavetime>

leave-all-time

> leave-all-time

<leavealltime>

> <leavealltime>

Command Mode

Global Configuration Mode

Privilege level

15

----

no hardware-address

Syntax

```
no hardware-address
```

Syntax Description

no

> Negate a command or set its defaults

hardware-address

> Client hardware address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no history size

Syntax

```
no history size
```

Syntax Description

no

> Negate a command or set its defaults

history
>Control the command history function

size
>Set history buffer size

Command Mode

Line Configuration Mode

Privilege level

15

----

no host

Syntax

```
no host
```

Syntax Description

no
>Negate a command or set its defaults

host
>Client IP address and mask

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

no host

Syntax

```
no host
```

Syntax Description

no
>Negate a command or set its defaults

host
>SNMP host paramters

Command Mode

SNMP Server Host Mode

Privilege level

15

no hostname

Syntax

```
no hostname
```

Syntax Description

no

 Negate a command or set its defaults

hostname

 Set system's network name

Command Mode

Global Configuration Mode

Privilege level

15

----

no informs

Syntax

```
no informs
```

Syntax Description

no

 Negate a command or set its defaults

informs

 Send Inform messages to this host

Command Mode

SNMP Server Host Mode

Privilege level

15

----

no interface vlan <vlist>

Syntax

```
no interface vlan <vlist>
```

Syntax Description

no

Negate a command or set its defaults

interface

Select an interface to configure

vlan

VLAN interface configurations

<vlist>

List of VLAN interface numbers, 1~4095

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip address

Syntax

```
no ip address
```

Syntax Description

no

no

ip

ip

address

address

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip arp inspection

Syntax

```
no ip arp inspection
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Internet Protocol

arp
> Address Resolution Protocol

inspection
> ARP inspection

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip arp inspection check-vlan

Syntax

```
no ip arp inspection check-vlan
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Internet Protocol

arp
> Address Resolution Protocol

inspection
> ARP inspection

check-vlan
> ARP inspection VLAN mode config

Command Mode

Port List Interface Mode

Privilege level

13

--no ip arp inspection entry interface <port_type>

<in_port_type_id> <vlan_var> <mac_var> <ipv4_var>

Syntax

```
no ip arp inspection entry interface <port_type> <in_port_type_id> <vlan_var>
<mac_var> <ipv4_var>
```

Syntax Description

no

Negate a command or set its defaults

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

entry

arp inspection entry

interface

arp inspection entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>

Port ID in the format of switch-no/port-no

<vlan_var>

Select a VLAN id to configure

<mac_var>

Select a MAC address to configure

<ipv4_var>

Select an IP Address to configure

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip arp inspection logging

Syntax

```
no ip arp inspection logging
```

Syntax Description

no

    no

ip

    ip

arp

    arp

inspection

    inspection

logging

    logging

Command Mode

Port List Interface Mode

Privilege level

13

----

no ip arp inspection trust

Syntax

```
no ip arp inspection trust
```

Syntax Description

no

    Negate a command or set its defaults

ip

    Internet Protocol

arp

    Address Resolution Protocol

inspection

    ARP inspection

trust

    ARP inspection trust config

Command Mode

Port List Interface Mode

Privilege level

13

----

no ip arp inspection vlan <in_vlan_list>

Syntax

```
no ip arp inspection vlan <in_vlan_list>
```

Syntax Description

no

Negate a command or set its defaults

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

vlan

arp inspection vlan setting

<in_vlan_list>

arp inspection vlan list

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip arp inspection vlan <in_vlan_list> logging

Syntax

```
no ip arp inspection vlan <in_vlan_list> logging
```

Syntax Description

no

no

ip
> ip

arp
> arp

inspection
> inspection

vlan
> vlan

<in_vlan_list>
> <in_vlan_list>

logging
> logging

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip dhcp excluded-address <low_ip>

Syntax

```
no ip dhcp excluded-address <low_ip> [ <high_ip> ]
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

dhcp
> Configure DHCP server parameters

excluded-address
> Prevent DHCP from assigning certain addresses

<low_ip>
> Low IP address

<high_ip>
> High IP address

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip dhcp pool <pool_name>

Syntax

```
no ip dhcp pool <pool_name>
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dhcp

Configure DHCP server parameters

pool

Configure DHCP address pools

<pool_name>

Pool name in 32 characters

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip dhcp relay

Syntax

```
no ip dhcp relay
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

relay
>   DHCP relay agent configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

no ip dhcp relay information option

Syntax
>   no ip dhcp relay information option

Syntax Description

no
>   Negate a command or set its defaults

ip
>   Interface Internet Protocol config commands

dhcp
>   Dynamic Host Configuration Protocol

relay
>   DHCP relay agent configuration

information
>   DHCP information option(Option 82)

option
>   DHCP option

Command Mode
Global Configuration Mode

Privilege level
15

----

no ip dhcp relay information policy

Syntax
>   no ip dhcp relay information policy

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

dhcp
> Dynamic Host Configuration Protocol

relay
> DHCP relay agent configuration

information
> DHCP information option(Option 82)

policy
> Policy for handling the receiving DHCP packet already include the information option

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip dhcp server

Syntax

```
no ip dhcp server
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

dhcp
> Configure DHCP server parameters

server
> Enable DHCP server

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip dhcp server

Syntax

```
no ip dhcp server
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dhcp

Configure DHCP server parameters

server

Enable DHCP server per VLAN

Command Mode

VLAN Interface Mode

Privilege level

13

----

no ip dhcp snooping

Syntax

```
no ip dhcp snooping
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip dhcp snooping trust

Syntax

```
no ip dhcp snooping trust
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

trust

DHCP Snooping trust config

Command Mode

Port List Interface Mode

Privilege level

15

----

no ip dns proxy

Syntax

```
no ip dns proxy
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

dns

Domain Name System

proxy
> DNS proxy service

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip helper-address

Syntax

```
no ip helper-address
```

Syntax Description

no
> no

ip
> ip

helper-address
> helper-address

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip http secure-redirect

Syntax

```
no ip http secure-redirect
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

http
> Hypertext Transfer Protocol

secure-redirect
> Secure HTTP web redirection

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip http secure-server

Syntax

```
no ip http secure-server
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

http
> Hypertext Transfer Protocol

secure-server
> Secure HTTP web server

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip igmp host-proxy

Syntax

```
no ip igmp host-proxy [ leave-proxy ]
```

Syntax Description

no
> Negate a command or set its defaults

ip
> Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

host-proxy

IGMP proxy configuration

leave-proxy

IGMP proxy for leave configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip igmp snooping

Syntax

```
no ip igmp snooping
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip igmp snooping

Syntax

```
no ip igmp snooping
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping compatibility

Syntax

```
no ip igmp snooping compatibility
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

compatibility

Interface compatibility

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping filter

Syntax

```
no ip igmp snooping filter
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

filter

Access control on IGMP multicast group registration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ip igmp snooping immediate-leave

Syntax

```
no ip igmp snooping immediate-leave
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

immediate-leave

Immediate leave configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ip igmp snooping last-member-query-interval

Syntax

```
no ip igmp snooping last-member-query-interval
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

last-member-query-interval

Last Member Query Interval in tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping max-groups

Syntax

```
no ip igmp snooping max-groups
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

max-groups

IGMP group throttling configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ip igmp snooping mrouter

Syntax

```
no ip igmp snooping mrouter
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

mrouter

Multicast router port configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ip igmp snooping priority

Syntax

```
no ip igmp snooping priority
```

Syntax Description

no

> Set a command to its defaults

ip

> Interface Internet Protocol config commands

igmp

> Internet Group Management Protocol

snooping

> Snooping IGMP

priority

> Interface CoS priority

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping querier

Syntax

```
no ip igmp snooping querier { election | address }
```

Syntax Description

no

> Negate a command or set its defaults

ip

> Interface Internet Protocol config commands

igmp

> Internet Group Management Protocol

snooping

> Snooping IGMP

querier

> IGMP Querier configuration

election

> Act as an IGMP Querier to join Querier-Election

address

> IGMP Querier address configuration

Command Mode
VLAN Interface Mode

Privilege level
15

----

no ip igmp snooping query-interval

Syntax

```
no ip igmp snooping query-interval
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

query-interval

Query Interval in seconds

Command Mode
VLAN Interface Mode

Privilege level
15

----

no ip igmp snooping query-max-response-time

Syntax

```
no ip igmp snooping query-max-response-time
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

query-max-response-time

Query Response Interval in tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping robustness-variable

Syntax

```
no ip igmp snooping robustness-variable
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping

Snooping IGMP

robustness-variable

Robustness Variable

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ip igmp snooping unsolicited-report-interval

Syntax

```
no ip igmp snooping unsolicited-report-interval
```

Syntax Description

no
Set a command to its defaults

ip
Interface Internet Protocol config commands

igmp
Internet Group Management Protocol

snooping
Snooping IGMP

unsolicited-report-interval
Unsolicited Report Interval in seconds

Command Mode
VLAN Interface Mode

Privilege level
15

----

no ip igmp snooping vlan

Syntax
```
no ip igmp snooping vlan [ <v_vlan_list> ]
```

Syntax Description

no
Negate a command or set its defaults

ip
Interface Internet Protocol config commands

igmp
Internet Group Management Protocol

snooping
Snooping IGMP

vlan
IGMP VLAN

<v_vlan_list>
VLAN identifier(s): VID

Command Mode
Global Configuration Mode

Privilege level

15

----

no ip igmp ssm-range

Syntax

```
no ip igmp ssm-range
```

Syntax Description

no

Set a command to its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

ssm-range

IPv4 address range of Source Specific Multicast

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip igmp unknown-flooding

Syntax

```
no ip igmp unknown-flooding
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

unknown-flooding

Flooding unregistered IPv4 multicast traffic

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip name-server

Syntax

```
no ip name-server
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

name-server

Domain Name System

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>

Syntax

```
no ip route <v_ipv4_addr> <v_ipv4_netmask> <v_ipv4_gw>
```

Syntax Description

no

no

ip

ip

route

route

<v_ipv4_addr>

<v_ipv4_addr>

<v_ipv4_netmask>
> <v_ipv4_netmask>

<v_ipv4_gw>
> <v_ipv4_gw>

Command Mode
Global Configuration Mode

Privilege level
15

----

no ip routing

Syntax
```
no ip routing
```

Syntax Description

no
> no

ip
> ip

routing
> routing

Command Mode
Global Configuration Mode

Privilege level
15

--no ip source binding interface <port_type> <in_port_type_id>

<vlan_var> <ipv4_var> <mac_var>

Syntax
```
no ip source binding interface <port_type> <in_port_type_id> <vlan_var>
<ipv4_var> <mac_var>
```

Syntax Description

no
>   Negate a command or set its defaults

ip
>   Internet Protocol

source
>   source command

binding
>   ip source binding

interface
>   ip source binding entry interface config

<port_type>
>   Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>
>   Port ID in the format of switch-no/port-no

<vlan_var>
>   Select a VLAN id to configure

<ipv4_var>
>   Select an IP Address to configure

<mac_var>
>   Select a MAC address to configure

Command Mode
Global Configuration Mode

Privilege level
13

--**no ip source binding interface <port_type> <in_port_type_id>**

<vlan_var> <ipv4_var> <mask_var>

Syntax

```
no ip source binding interface <port_type> <in_port_type_id> <vlan_var>
<ipv4_var> <mask_var>
```

Syntax Description

no

Negate a command or set its defaults

ip

Internet Protocol

source

source command

binding

ip source binding

interface

ip source binding entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_id>

Port ID in the format of switch-no/port-no

<vlan_var>

Select a VLAN id to configure

<ipv4_var>

Select an IP Address to configure

<mask_var>

Select a subnet mask to configure

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip ssh

Syntax

```
no ip ssh
```

Syntax Description

no

Negate a command or set its defaults

ip

Interface Internet Protocol config commands

ssh
>   Secure Shell

Command Mode

Global Configuration Mode

Privilege level

15

----

no ip verify source

Syntax

```
no ip verify source
```

Syntax Description

no
>   Negate a command or set its defaults

ip
>   Internet Protocol

verify
>   verify command

source
>   verify source

Command Mode

Global Configuration Mode

Privilege level

13

----

no ip verify source

Syntax

```
no ip verify source
```

Syntax Description

no
>   Negate a command or set its defaults

ip
>   Internet Protocol

verify

verify command

source

verify source

Command Mode

Port List Interface Mode

Privilege level

13

----

no ip verify source limit

Syntax

```
no ip verify source limit
```

Syntax Description

no

Negate a command or set its defaults

ip

Internet Protocol

verify

verify command

source

verify source

limit

limit command

Command Mode

Port List Interface Mode

Privilege level

13

----

no ipmc profile

Syntax

```
no ipmc profile
```

Syntax Description

no
> Negate a command or set its defaults

ipmc
> IPv4/IPv6 multicast configuration

profile
> IPMC profile configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipmc profile <profile_name>

Syntax

```
no ipmc profile <profile_name>
```

Syntax Description

no
> Negate a command or set its defaults

ipmc
> IPv4/IPv6 multicast configuration

profile
> IPMC profile configuration

<profile_name>
> Profile name in 16 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipmc range <entry_name>

Syntax

```
no ipmc range <entry_name>
```

Syntax Description

no

Negate a command or set its defaults

ipmc

IPv4/IPv6 multicast configuration

range

A range of IPv4/IPv6 multicast addresses for the profile

<entry_name>

Range entry name in 16 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipv6 address

Syntax

```
no ipv6 address [ <ipv6_subnet> ]
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

address

Configure the IPv6 address of an interface

<ipv6_subnet>

IPv6 prefix x:x::y/z

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld host-proxy

Syntax

```
no ipv6 mld host-proxy [ leave-proxy ]
```

Syntax Description

no
>   Negate a command or set its defaults

ipv6
>   IPv6 configuration commands

mld
>   Multicasat Listener Discovery

host-proxy
>   MLD proxy configuration

leave-proxy
>   MLD proxy for leave configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipv6 mld snooping

Syntax

```
no ipv6 mld snooping
```

Syntax Description

no
>   Negate a command or set its defaults

ipv6
>   IPv6 configuration commands

mld
>   Multicasat Listener Discovery

snooping
>   Snooping MLD

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipv6 mld snooping

Syntax

```
no ipv6 mld snooping
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping compatibility

Syntax

```
no ipv6 mld snooping compatibility
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

compatibility

Interface compatibility

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping filter

Syntax

```
no ipv6 mld snooping filter
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

filter

Access control on MLD multicast group registration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ipv6 mld snooping immediate-leave

Syntax

```
no ipv6 mld snooping immediate-leave
```

Syntax Description

no

   Negate a command or set its defaults

ipv6

   IPv6 configuration commands

mld

   Multicasat Listener Discovery

snooping

   Snooping MLD

immediate-leave

   Immediate leave configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ipv6 mld snooping last-member-query-interval

Syntax

```
no ipv6 mld snooping last-member-query-interval
```

Syntax Description

no

   Set a command to its defaults

ipv6

   IPv6 configuration commands

mld

   Multicasat Listener Discovery

snooping

   Snooping MLD

last-member-query-interval

   Last Member Query Interval in tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping max-groups

Syntax

```
no ipv6 mld snooping max-groups
```

Syntax Description

no
> Negate a command or set its defaults

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping
> Snooping MLD

max-groups
> MLD group throttling configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ipv6 mld snooping mrouter

Syntax

```
no ipv6 mld snooping mrouter
```

Syntax Description

no
> Negate a command or set its defaults

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

snooping
> Snooping MLD

mrouter
> Multicast router port configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no ipv6 mld snooping priority

Syntax

```
no ipv6 mld snooping priority
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

priority

Interface CoS priority

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping querier election

Syntax

```
no ipv6 mld snooping querier election
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

querier

MLD Querier configuration

election

Act as a MLD Querier to join Querier-Election

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping query-interval

Syntax

```
no ipv6 mld snooping query-interval
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

query-interval

Query Interval in seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping query-max-response-time

Syntax

```
no ipv6 mld snooping query-max-response-time
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

query-max-response-time

Query Response Interval in tenths of seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping robustness-variable

Syntax

```
no ipv6 mld snooping robustness-variable
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

robustness-variable

Robustness Variable

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping unsolicited-report-interval

Syntax

```
no ipv6 mld snooping unsolicited-report-interval
```

Syntax Description

no

Set a command to its defaults

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

unsolicited-report-interval

Unsolicited Report Interval in seconds

Command Mode

VLAN Interface Mode

Privilege level

15

----

no ipv6 mld snooping vlan

Syntax

```
no ipv6 mld snooping vlan [ <v_vlan_list> ]
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

mld
Multicasat Listener Discovery

snooping
Snooping MLD

vlan
MLD VLAN

<v_vlan_list>
VLAN identifier(s): VID

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipv6 mld ssm-range

Syntax

```
no ipv6 mld ssm-range
```

Syntax Description

no
Set a command to its defaults

ipv6
IPv6 configuration commands

mld
Multicasat Listener Discovery

ssm-range
IPv6 address range of Source Specific Multicast

Command Mode

Global Configuration Mode

Privilege level

15

----

no ipv6 mld unknown-flooding

Syntax

```
no ipv6 mld unknown-flooding
```

Syntax Description

no
> Negate a command or set its defaults

ipv6
> IPv6 configuration commands

mld
> Multicasat Listener Discovery

unknown-flooding
> Flooding unregistered IPv6 multicast traffic

Command Mode
Global Configuration Mode

Privilege level
15

----

no ipv6 mtu

Syntax
```
no ipv6 mtu
```

Syntax Description

no
> Negate a command or set its defaults

ipv6
> IPv6 configuration commands

mtu
> Maximum transmission unit

Command Mode
VLAN Interface Mode

Privilege level
15

no ipv6 route <v_ipv6_subnet>

Syntax
```
no ipv6 route <v_ipv6_subnet> { <v_ipv6_ucast> | interface vlan <v_vlan_id>
<v_ipv6_addr> }
```

Syntax Description

no

Negate a command or set its defaults

ipv6

IPv6 configuration commands

route

Configure static routes

<v_ipv6_subnet>

IPv6 prefix x:x::y/z

<v_ipv6_ucast>

IPv6 unicast address (except link-local address) of next-hop

interface

Select an interface to configure

vlan

VLAN Interface

<v_vlan_id>

VLAN identifier(s): VID

<v_ipv6_addr>

IPv6 link-local address of next-hop

Command Mode

Global Configuration Mode

Privilege level

15

----

no lacp

Syntax

no l acp

Syntax Description

no

Negate a command or set its defaults

lacp

Enable LACP on this interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no lacp key

Syntax

```
no lacp key { <v_1_to_65535> | auto }
```

Syntax Description

no

Negate a command or set its defaults

lacp

LACP port configuration

key

Key of the LACP aggregation

<v_1_to_65535>

Key value

auto

Choose a key based on port speed

Command Mode

Port List Interface Mode

Privilege level

15

----

no lacp port-priority <v_1_to_65535>

Syntax

```
no lacp port-priority <v_1_to_65535>
```

Syntax Description

no

Negate a command or set its defaults

lacp

LACP port configuration

port-priority

LACP priority of the port

<v_1_to_65535>
    Priority value, lower means higher priority

Command Mode

Port List Interface Mode

Privilege level

15

----

no lacp role

Syntax

```
no lacp role { active | passive }
```

Syntax Description

no
    Negate a command or set its defaults

lacp
    LACP port configuration

role
    Active / Passive (speak if spoken to) role

active
    Transmit LACP BPDUs continously

passive
    Wait for neighbour LACP BPDUs before transmitting

Command Mode

Port List Interface Mode

Privilege level

15

----

no lacp system-priority <v_1_to_65535>

Syntax

```
no lacp system-priority <v_1_to_65535>
```

Syntax Description

no
    Negate a command or set its defaults

lacp

> LACP settings

system-priority

> System priority

<v_1_to_65535>

> Priority value, lower means higher priority

Command Mode

Global Configuration Mode

Privilege level

15

----

no lacp timeout

Syntax

```
no lacp timeout { fast | slow }
```

Syntax Description

no

> Negate a command or set its defaults

lacp

> LACP port configuration

timeout

> The period between BPDU transmissions

fast

> Transmit BPDU each second (fast timeout)

slow

> Transmit BPDU each 30th second (slow timeout)

Command Mode

Port List Interface Mode

Privilege level

15

----

no latency

Syntax

```
no latency
```

Syntax Description

no
> no

latency
> latency

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no lease

Syntax

> no lease

Syntax Description

no
> Negate a command or set its defaults

lease
> Address lease time

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no length

Syntax

> no length

Syntax Description

no
> Negate a command or set its defaults

length
> Set number of lines on a screen

Command Mode

Line Configuration Mode

Privilege level

15

----

no link-oam

Syntax

```
no link-oam
```

Syntax Description

no

Negate a command or set its defaults

link-oam

Enable or Disable(when the no keyword is entered) Link OAM on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam link-monitor frame

Syntax

```
no link-oam link-monitor frame
```

Syntax Description

no

Negate a command or set its defaults

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

frame

Configure default value for window is 1 second,for threshold 0 frames

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam link-monitor frame-seconds

Syntax

```
no link-oam link-monitor frame-seconds
```

Syntax Description

no
> Negate a command or set its defaults

link-oam
> Link OAM configuration

link-monitor
> Configure link monitoring

frame-seconds
> Set default frame-seconds summary window(10 seconds) and thresholds(1 frames)

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam link-monitor supported

Syntax

```
no link-oam link-monitor supported
```

Syntax Description

no
> Negate a command or set its defaults

link-oam
> Link OAM configuration

link-monitor
> Configure link monitoring

supported
> Enable or Disable(when the no keyword is entered) link monitor on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam link-monitor symbol-period

Syntax

```
no link-oam link-monitor symbol-period
```

Syntax Description

no

Negate a command or set its defaults

link-oam

Link OAM configuration

link-monitor

Configure link monitoring

symbol-period

Configure default window and thresholds for an error symbol period

Command Mode

Port List Interface Mode

Privilege level

15

no link-oam mib-retrieval supported

Syntax

```
no link-oam mib-retrieval supported
```

Syntax Description

no

Negate a command or set its defaults

link-oam

Link OAM configuration

mib-retrieval

Set MIB retrieval support

supported

Enable or Disable(when the no keyword is entered) MIB retrieval support on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam mode

Syntax

```
no link-oam mode
```

Syntax Description

no
> Negate a command or set its defaults

link-oam
> Link OAM configuration

mode
> Set Link OAM mode to default(Passive)

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam remote-loopback supported

Syntax

```
no link-oam remote-loopback supported
```

Syntax Description

no
> Negate a command or set its defaults

link-oam
> Link OAM configuration

remote-loopback
> Link OAM remote loopback support

supported
> Enable or Disable(when the no keyword is entered) remote loopback on the interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no link-oam variable-retrieve

Syntax

```
no link-oam variable-retrieve
```

Syntax Description

no

> Negate a command or set its defaults

link-oam

> Link OAM configuartion on port

variable-retrieve

> Set Link OAM mib retrieve info to default ,local-info

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp cdp-aware

Syntax

```
no lldp cdp-aware
```

Syntax Description

no

> Negate a command or set its defaults

lldp

> LLDP configurations.

cdp-aware

> Configures if the interface shall be CDP aware (CDP discovery information is added to the LLDP neighbor table)

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp holdtime

Syntax

```
no lldp holdtime
```

Syntax Description

no
> no

lldp
> lldp

holdtime
> holdtime

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med datum

Syntax

```
no lldp med datum
```

Syntax Description

no
> No

lldp
> Link Layer Discover Protocol.

med
> Media Endpoint Discovery.

datum
> Set datum to default value.

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med fast

Syntax

    no lldp med fast

Syntax Description

no

No

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

fast

Set fast repeat count to default value.

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med location-tlv altitude

Syntax

    no lldp med location-tlv altitude

Syntax Description

no

no

lldp

lldp

med

med

location-tlv

location-tlv

altitude

>altitude

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med location-tlv civic-addr

Syntax

```
no lldp med location-tlv civic-addr { country | state | county | city |
district | block | street | leading-street-direction | trailing-street-suffix |
street-suffix | house-no | house-no-suffix | landmark | additional-info | name
| zip-code | building | apartment | floor | room-number | place-type | postal-
community-name | p-o-box | additional-code }
```

Syntax Description

no

>no

lldp

>lldp

med

>med

location-tlv

>location-tlv

civic-addr

>civic-addr

country

>country

state

>state

county

>county

city

>city

district

>district

block

>block

street
> street

leading-street-direction
> leading-street-direction

trailing-street-suffix
> trailing-street-suffix

street-suffix
> street-suffix

house-no
> house-no

house-no-suffix
> house-no-suffix

landmark
> landmark

additional-info
> additional-info

name
> name

zip-code
> zip-code

building
> building

apartment
> apartment

floor
> floor

room-number
> room-number

place-type
> place-type

postal-community-name
> postal-community-name

p-o-box
> p-o-box

additional-code
> additional-code

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med location-tlv elin-addr

Syntax

```
no lldp med location-tlv elin-addr
```

Syntax Description

no

No

lldp

Link Layer Discover Protocol.

med

Media Endpoint Discovery.

location-tlv

LLDP-MED Location Type Length Value parameter.

elin-addr

Set elin address to default value.

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med location-tlv latitude

Syntax

```
no lldp med location-tlv latitude
```

Syntax Description

no

no

lldp

lldp

med

med

location-tlv
location-tlv

latitude
latitude

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med location-tlv longitude

Syntax

no lldp med location-tlv longitude

Syntax Description

no
no

lldp
lldp

med
med

location-tlv
location-tlv

longitude
longitude

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med media-vlan policy-list

Syntax

no lldp med media-vlan policy-list [<v_range_list>]

Syntax Description

no
> No

lldp
> Link Layer Discover Protocol.

med
> Media Endpoint Discovery.

media-vlan
> Policies to delete from the interface.

policy-list
> policy-list

<v_range_list>
> <v_range_list>

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp med media-vlan-policy <policies_list>

Syntax

```
no lldp med media-vlan-policy <policies_list>
```

Syntax Description

no
> No

lldp
> Link Layer Discover Protocol.

med
> Media Endpoint Discovery.

media-vlan-policy
> Use the media-vlan-policy to create a policy, which can be assigned to an interface.

<policies_list>
> Policy to delete.

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp med transmit-tlv

Syntax

```
no lldp med transmit-tlv [ capabilities ] [ location ] [ network-policy ]
```

Syntax Description

no

no

lldp

lldp

med

med

transmit-tlv

transmit-tlv

capabilities

capabilities

location

location

network-policy

network-policy

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp receive

Syntax

```
no lldp receive
```

Syntax Description

no

Negate a command or set its defaults

lldp

LLDP configurations.

receive

Enable/Disable decoding of received LLDP frames.

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp reinit

Syntax

```
no lldp reinit
```

Syntax Description

no

no

lldp

lldp

reinit

reinit

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp timer

Syntax

```
no lldp timer
```

Syntax Description

no

no

lldp

lldp

timer

> timer

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp tlv-select

Syntax

```
no lldp tlv-select { management-address | port-description | system-
capabilities | system-description | system-name }
```

Syntax Description

no

> Negate a command or set its defaults

lldp

> LLDP configurations.

tlv-select

> Which optional TLVs to transmit.

management-address

> Enable/Disable transmission of management address.

port-description

> Enable/Disable transmission of port description.

system-capabilities

> Enable/Disable transmission of system capabilities.

system-description

> Enable/Disable transmission of system description.

system-name

> Enable/Disable transmission of system name.

Command Mode

Port List Interface Mode

Privilege level

15

----

no lldp transmission-delay

Syntax

```
no lldp transmission-delay
```

Syntax Description

no

no

lldp

lldp

transmission-delay

transmission-delay

Command Mode

Global Configuration Mode

Privilege level

15

----

no lldp transmit

Syntax

```
no lldp transmit
```

Syntax Description

no

Negate a command or set its defaults

lldp

LLDP configurations.

transmit

Enable/Disabled transmision of LLDP frames.

Command Mode

Port List Interface Mode

Privilege level

15

----

no location

Syntax

```
no location
```

Syntax Description

no

Negate a command or set its defaults

location

Enter terminal location description

Command Mode

Line Configuration Mode

Privilege level

15

----

no logging host

Syntax

```
no logging host
```

Syntax Description

no

Negate a command or set its defaults

logging

Syslog

host

host

Command Mode

Global Configuration Mode

Privilege level

15

----

no logging on

Syntax

```
no logging on
```

Syntax Description

no
Negate a command or set its defaults

logging
Syslog

on
Enable syslog server

Command Mode

Global Configuration Mode

Privilege level

15

no loop-protect

Syntax

```
no loop-protect
```

Syntax Description

no
Negate a command or set its defaults

loop-protect
Loop protection configuration

Command Mode

Global Configuration Mode

Privilege level

15

no loop-protect

Syntax

```
no loop-protect
```

Syntax Description

no

Negate a command or set its defaults

loop-protect

Loop protection configuration on port

Command Mode

Port List Interface Mode

Privilege level

15

----

no loop-protect action

Syntax

```
no loop-protect action
```

Syntax Description

no

Negate a command or set its defaults

loop-protect

Loop protection configuration on port

action

Action if loop detected

Command Mode

Port List Interface Mode

Privilege level

15

----

no loop-protect shutdown-time

Syntax

```
no loop-protect shutdown-time
```

Syntax Description

no

Negate a command or set its defaults

loop-protect
> Loop protection configuration

shutdown-time
> Loop protection shutdown time interval

Command Mode

Global Configuration Mode

Privilege level

15

----

no loop-protect transmit-time

Syntax

```
no loop-protect transmit-time
```

Syntax Description

no
> Negate a command or set its defaults

loop-protect
> Loop protection configuration

transmit-time
> Loop protection transmit time interval

Command Mode

Global Configuration Mode

Privilege level

15

----

no loop-protect tx-mode

Syntax

```
no loop-protect tx-mode
```

Syntax Description

no
> Negate a command or set its defaults

loop-protect
> Loop protection configuration on port

tx-mode
>   Actively generate PDUs

Command Mode
Port List Interface Mode

Privilege level
15

----

no mac address-table aging-time

Syntax
```
no mac address-table aging-time
```

Syntax Description

no
>   no

mac
>   mac

address-table
>   address-table

aging-time
>   aging-time

Command Mode
Global Configuration Mode

Privilege level
15

----

no mac address-table aging-time <v_0_10_to_1000000>

Syntax
```
no mac address-table aging-time <v_0_10_to_1000000>
```

Syntax Description

no
>   Negate a command or set its defaults

mac
>   Mac Address Table

address-table
> Mac Address Table

aging-time
> Mac address aging time

<v_0_10_to_1000000>
> Aging time in seconds, 0 disables aging

Command Mode

Global Configuration Mode

Privilege level

15

----

no mac address-table learning

Syntax

```
no mac address-table learning [ secure ]
```

Syntax Description

no
> Negate a command or set its defaults

mac
> MAC keyword

address-table
> MAC table configuration

learning
> Port learning mode

secure
> Port Secure mode

Command Mode

Port List Interface Mode

Privilege level

15

---**no mac address-table static <v_mac_addr> vlan <v_vlan_id>**

----

interface <port_type>

Syntax

```
no mac address-table static <v_mac_addr> vlan <v_vlan_id> interface <port_type>
[ <v_port_type_list> ]
```

Syntax Description

no

Negate a command or set its defaults

mac

MAC table entries/configuration

address-table

MAC table entries/configuration

static

Static MAC address

<v_mac_addr>

48 bit MAC address: xx:xx:xx:xx:xx:xx

vlan

VLAN keyword

<v_vlan_id>

VLAN IDs 1-4095

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

Global Configuration Mode

Privilege level

15

----

no media-type

Syntax

```
no media-type
```

Syntax Description

no
> no

media-type
> media-type

Command Mode

Port List Interface Mode

Privilege level

15

----

no meg-level

Syntax

```
no meg-level
```

Syntax Description

no
> no

meg-level
> meg-level

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no mep <inst>

Syntax

```
no mep <inst>
```

Syntax Description

no

Delete.

mep

Maintenance Entity Point

<inst>

The MEP instance number.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> ais

Syntax

```
no mep <inst> ais
```

Syntax Description

no

Disable Alarm Indication Signal.

mep

Maintenance Entity Point

<inst>

The MEP instance number.

ais

Alarm Indication Signal.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> aps

Syntax

```
no mep <inst> aps
```

Syntax Description

no

    Disable Automatic Protection Switching protocol.

mep

    Maintenance Entity Point.

<inst>

    The MEP instance number.

aps

    Automatic Protection Switching protocol.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> cc

Syntax

```
no mep <inst> cc
```

Syntax Description

no

    Disable Continuity Check.

mep

    Maintenance Entity Point.

<inst>

    The MEP instance number.

cc

    Continuity Check.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> client-flow

Syntax

```
no mep <inst> client-flow { <cflow> | all }
```

Syntax Description

no

Delete a client flow instance.

mep

Maintenance Entity Point

<inst>

The MEP instance number.

client-flow

Client flow instance number.

<cflow>

Client flow instance number value.

all

Delete all client flow instances.

Command Mode

Global Configuration Mode

Privilege level

15

no mep <inst> dm

Syntax

```
no mep <inst> dm
```

Syntax Description

no

Disable Delay Measurement.

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> dm ns

Syntax

```
no mep <inst> dm ns
```

Syntax Description

no

Negate a command or set its defaults

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

ns

Nano Seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> dm overflow-reset

Syntax

```
no mep <inst> dm overflow-reset
```

Syntax Description

no

Negate a command or set its defaults

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

overflow-reset

Reset all Delay Measurement results on total delay counter overflow.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> dm proprietary

Syntax

```
no mep <inst> dm proprietary
```

Syntax Description

no

Negate a command or set its defaults

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

proprietary

Proprietary Delay Measurement.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> dm syncronized

Syntax

```
no mep <inst> dm syncronized
```

Syntax Description

no

Negate a command or set its defaults

mep

Maintenance Entity Point

<inst>

The MEP instance number.

dm

Delay Measurement.

syncronized

Near enad and far end is real time syncronized.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> lb

Syntax

```
no mep <inst> lb
```

Syntax Description

no

Disable Loop Back.

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

lb

Loop Back.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> lck

Syntax

```
no mep <inst> lck
```

Syntax Description

no

    Disable Locked Signal.

mep

    Maintenance Entity Point.

<inst>

    The MEP instance number.

lck

    Locked Signal

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> lm

Syntax

```
no mep <inst> lm
```

Syntax Description

no

    Disable Loss Measurement.

mep

    Maintenance Entity Point

<inst>

    The MEP instance number.

lm

    Loss Measurement.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> lt

Syntax

```
no mep <inst> lt
```

Syntax Description

no

Disable of Link Trace.

mep

Maintenance Entity Point.

<inst>

The MEP instance number.

lt

Link Trace.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> peer-mep-id

Syntax

```
no mep <inst> peer-mep-id { <mepid> | all }
```

Syntax Description

no

Delete peer MEP-ID

mep

Maintenance Entity Point

<inst>

The MEP instance number.

peer-mep-id

The peer MEP-ID.

<mepid>

    The peer MEP-ID value.

all

    All peer MEP-ID will be deleted.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> tst rx

Syntax

```
no mep <inst> tst rx
```

Syntax Description

no

    Negate a command or set its defaults

mep

    Maintenance Entity Point.

<inst>

    The MEP instance number.

tst

    Test Signal.

rx

    Receive Test Signal.

Command Mode

Global Configuration Mode

Privilege level

15

----

no mep <inst> tst tx

Syntax

```
no mep <inst> tst tx
```

Syntax Description

no
> Negate a command or set its defaults

mep
> Maintenance Entity Point.

<inst>
> The MEP instance number.

tst
> Test Signal.

tx
> Transmit Test Signal.

Command Mode
Global Configuration Mode

Privilege level
15

----

no mep <inst> vid

Syntax
```
no mep <inst> vid
```

Syntax Description

no
> Disable.

mep
> Maintenance Entity Point

<inst>
> The MEP instance number.

vid
> vid

Command Mode
Global Configuration Mode

Privilege level
15

----

no mep <inst> voe

Syntax

```
no mep <inst> voe
```

Syntax Description

no

Negate a command or set its defaults

mep

Maintenance Entity Point

<inst>

The MEP instance number.

voe

MEP is VOE based.

Command Mode

Global Configuration Mode

Privilege level

15

----

no monitor destination

Syntax

```
no monitor destination
```

Syntax Description

no

no

monitor

monitor

destination

destination

Command Mode

Global Configuration Mode

Privilege level

15

----

no monitor source

Syntax

```
no monitor source { { interface <port_type> [ <v_port_type_list> ] } | { cpu [
<cpu_switch_range> ] } }
```

Syntax Description

no
> no

monitor
> monitor

source
> source

interface
> interface

<port_type>
> <port_type>

<v_port_type_list>
> <v_port_type_list>

cpu
> cpu

<cpu_switch_range>
> <cpu_switch_range>

Command Mode
Global Configuration Mode

Privilege level
15

----

no motd-banner

Syntax

```
no motd-banner
```

Syntax Description

no
> Negate a command or set its defaults

motd-banner
    Enable the display of the MOTD banner

Command Mode
Line Configuration Mode

Privilege level
15

----

no mpls evc <evc_idx> server-xc

Syntax
```
no mpls evc <evc_idx> server-xc { [ in ] [ out ] }
```

Syntax Description

no
    no

mpls
    mpls

evc
    evc

<evc_idx>
    <evc_idx>

server-xc
    server-xc

in
    in

out
    out

Command Mode
Global Configuration Mode

Privilege level
15

----

no mpls l2 <idx>

Syntax
```
no mpls l2 <idx>
```

Syntax Description

no

   no

mpls

   mpls

l2

   l2

<idx>

   <idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

no mpls xc <idx>

Syntax

```
no mpls xc <idx>
```

Syntax Description

no

   no

mpls

   mpls

xc

   xc

<idx>

   <idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

no mpls xc <xc_idx> l2

Syntax

```
no mpls xc <xc_idx> l2 [ in ] [ out ]
```

Syntax Description

no
>   no

mpls
>   mpls

xc
>   xc

<xc_idx>
>   <xc_idx>

l2
>   l2

in
>   in

out
>   out

Command Mode
Global Configuration Mode

Privilege level
15

----

no mpls xc <xc_idx> server

Syntax

```
no mpls xc <xc_idx> server { [ in ] [ out ] }
```

Syntax Description

no
>   no

mpls
>   mpls

xc
>   xc

<xc_idx>

    <xc_idx>

server

    server

in

    in

out

    out

Command Mode

Global Configuration Mode

Privilege level

15

----

no mtu

Syntax

```
no mtu
```

Syntax Description

no

    Set to default value.

mtu

    Maximum transmission unit

Command Mode

Port List Interface Mode

Privilege level

15

----

no mvr

Syntax

```
no mvr
```

Syntax Description

no

    Negate a command or set its defaults

mvr
    Multicast VLAN Registration configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

no mvr immediate-leave

Syntax
    no mvr immediate-leave

Syntax Description

no
    Negate a command or set its defaults

mvr
    Multicast VLAN Registration configuration

immediate-leave
    Immediate leave configuration

Command Mode
Port List Interface Mode

Privilege level
15

----

no mvr name <mvr_name> channel

Syntax
    no mvr name <mvr_name> channel

Syntax Description

no
    Negate a command or set its defaults

mvr
    Multicast VLAN Registration configuration

name
    MVR multicast name

<mvr_name>
  MVR multicast VLAN name

channel
  MVR channel configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr name <mvr_name> frame priority

Syntax

```
no mvr name <mvr_name> frame priority
```

Syntax Description

no
  Negate a command or set its defaults

mvr
  Multicast VLAN Registration configuration

name
  MVR multicast name

<mvr_name>
  MVR multicast VLAN name

frame
  MVR control frame in TX

priority
  Interface CoS priority

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr name <mvr_name> frame tagged

Syntax

```
no mvr name <mvr_name> frame tagged
```

Syntax Description

no
> Negate a command or set its defaults

mvr
> Multicast VLAN Registration configuration

name
> MVR multicast name

<mvr_name>
> MVR multicast VLAN name

frame
> MVR control frame in TX

tagged
> Tagged IGMP/MLD frames will be sent

Command Mode
Global Configuration Mode

Privilege level
15

----

no mvr name <mvr_name> igmp-address

Syntax

```
no mvr name <mvr_name> igmp-address
```

Syntax Description

no
> Negate a command or set its defaults

mvr
> Multicast VLAN Registration configuration

name
> MVR multicast name

<mvr_name>
> MVR multicast VLAN name

igmp-address
> MVR address configuration used in IGMP

Command Mode
Global Configuration Mode

Privilege level

15

----

no mvr name <mvr_name> last-member-query-interval

Syntax

```
no mvr name <mvr_name> last-member-query-interval
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>

MVR multicast VLAN name

last-member-query-interval

Last Member Query Interval in tenths of seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr name <mvr_name> mode

Syntax

```
no mvr name <mvr_name> mode
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

name

MVR multicast name

<mvr_name>
>   MVR multicast VLAN name

mode
>   MVR mode of operation

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr name <mvr_name> type

Syntax

```
no mvr name <mvr_name> type
```

Syntax Description

no
>   Negate a command or set its defaults

mvr
>   Multicast VLAN Registration configuration

name
>   MVR multicast name

<mvr_name>
>   MVR multicast VLAN name

type
>   MVR port role configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no mvr vlan <v_vlan_list>

Syntax

```
no mvr vlan <v_vlan_list>
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> channel

Syntax

```
no mvr vlan <v_vlan_list> channel
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

channel

MVR channel configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> frame priority

Syntax

```
no mvr vlan <v_vlan_list> frame priority
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

frame

MVR control frame in TX

priority

Interface CoS priority

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> frame tagged

Syntax

```
no mvr vlan <v_vlan_list> frame tagged
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

frame

MVR control frame in TX

tagged

Tagged IGMP/MLD frames will be sent

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> igmp-address

Syntax

```
no mvr vlan <v_vlan_list> igmp-address
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

igmp-address

MVR address configuration used in IGMP

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> last-member-query-interval

Syntax

```
no mvr vlan <v_vlan_list> last-member-query-interval
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

last-member-query-interval

Last Member Query Interval in tenths of seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> mode

Syntax

```
no mvr vlan <v_vlan_list> mode
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

mode

MVR mode of operation

Command Mode

Global Configuration Mode

Privilege level

15

----

no mvr vlan <v_vlan_list> type

Syntax

```
no mvr vlan <v_vlan_list> type
```

Syntax Description

no

Negate a command or set its defaults

mvr

Multicast VLAN Registration configuration

vlan

MVR multicast vlan

<v_vlan_list>

MVR multicast VLAN list

type

MVR port role configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no name

Syntax

```
no name
```

Syntax Description

no

no

name

name

Command Mode

VLAN Configuration Mode

Privilege level

13

----

no netbios-name-server

Syntax

```
no netbios-name-server
```

Syntax Description

no
Negate a command or set its defaults

netbios-name-server
NetBIOS (WINS) name servers

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no netbios-node-type

Syntax

```
no netbios-node-type
```

Syntax Description

no
Negate a command or set its defaults

netbios-node-type
NetBIOS node type

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no netbios-scope

Syntax

```
no netbios-scope
```

Syntax Description

no
> Negate a command or set its defaults

netbios-scope
> NetBIOS scope

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no network

Syntax

```
no network
```

Syntax Description

no
> Negate a command or set its defaults

network
> Network number and mask

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no nis-domain-name

Syntax

```
no nis-domain-name
```

Syntax Description

no
> Negate a command or set its defaults

nis-domain-name
> NIS domain name

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no nis-server

Syntax

```
no nis-server
```

Syntax Description

no

   Negate a command or set its defaults

nis-server

   Network information servers

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no ntp

Syntax

```
no ntp
```

Syntax Description

no

   Negate a command or set its defaults

ntp

   Configure NTP

Command Mode

Global Configuration Mode

Privilege level

13

----

no ntp server <index_var>

Syntax

```
no ntp server <index_var>
```

Syntax Description

no
   Negate a command or set its defaults

ntp
   Configure NTP

server
   Configure NTP server

<index_var>
   index number

Command Mode

Global Configuration Mode

Privilege level

13

----

no ntp-server

Syntax

```
no ntp-server
```

Syntax Description

no
   Negate a command or set its defaults

ntp-server
   NTP servers

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no platform phy failover

Syntax

```
no platform phy failover
```

Syntax Description

no

Negate a command or set its defaults

platform

platform

phy

phy

failover

failover

Command Mode

Port List Interface Mode

Privilege level

15

----

no platform phy instance

Syntax

```
no platform phy instance
```

Syntax Description

no

no

platform

platform

phy

phy

instance

instance

Command Mode

Global Configuration Mode

Privilege level

15

----

no port-security

Syntax

```
no port-security
```

Syntax Description

no
    Negate a command or set its defaults

port-security
    Enable/disable port security globally.

Command Mode

Global Configuration Mode

Privilege level

15

no port-security

Syntax

```
no port-security
```

Syntax Description

no
    Negate a command or set its defaults

port-security
    Enable/disable port security per interface.

Command Mode

Port List Interface Mode

Privilege level

15

no port-security aging

Syntax

```
no port-security aging
```

Syntax Description

no

Negate a command or set its defaults

port-security

Port security (psec limit)

aging

Enable/disable port security aging.

Command Mode

Global Configuration Mode

Privilege level

15

----

no port-security aging time

Syntax

```
no port-security aging time
```

Syntax Description

no

no

port-security

port-security

aging

aging

time

time

Command Mode

Global Configuration Mode

Privilege level

15

----

no port-security maximum

Syntax

```
no port-security maximum
```

Syntax Description

no

no

port-security

port-security

maximum

maximum

Command Mode

Port List Interface Mode

Privilege level

15

----

no port-security shutdown

Syntax

```
no port-security shutdown [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

no

no

port-security

port-security

shutdown

shutdown

interface

interface

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

no port-security violation

Syntax

```
no port-security violation
```

Syntax Description

no
> no

port-security
> port-security

violation
> violation

Command Mode

Port List Interface Mode

Privilege level

15

----

no privilege level

Syntax

```
no privilege level
```

Syntax Description

no
> Negate a command or set its defaults

privilege
> Change privilege level for line

level
> Assign default privilege level for line

Command Mode

Line Configuration Mode

Privilege level

15

----

no privilege

Syntax

```
no privilege { exec | configure | config-vlan | line | interface | if-vlan |
ipmc-profile | snmps-host | stp-aggr | dhcp-pool | rfc2544-profile } level <0-
15> <cmd>
```

Syntax Description

no

> Negate a command or set its defaults

privilege

> Command privilege parameters

exec

> Exec mode

configure

> Global configuration mode

config-vlan

> VLAN Configuration Mode

line

> Line configuration mode

interface

> Port List Interface Mode

if-vlan

> VLAN Interface Mode

ipmc-profile

> IPMC Profile Mode

snmps-host

> SNMP Server Host Mode

stp-aggr

> STP Aggregation Mode

dhcp-pool

> DHCP Pool Configuration Mode

rfc2544-profile

> RFC2544 Profile Mode

level

> Set privilege level of command

<0-15>

> Privilege level

<cmd>

Initial valid words and literals of the command to modify, in 128 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst>

Syntax

```
no ptp <clockinst>
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> announce

Syntax

```
no ptp <clockinst> announce { interval | timeout }
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

announce

announce

interval

interval

timeout

timeout

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> clk

Syntax

```
no ptp <clockinst> clk
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

clk

clk

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> delay-asymmetry

Syntax

```
no ptp <clockinst> delay-asymmetry
```

Syntax Description

no

> no

ptp

> ptp

<clockinst>

> <clockinst>

delay-asymmetry

> delay-asymmetry

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> delay-mechanism

Syntax

```
no ptp <clockinst> delay-mechanism
```

Syntax Description

no

> no

ptp

> ptp

<clockinst>

> <clockinst>

delay-mechanism

> delay-mechanism

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> delay-req interval

Syntax

```
no ptp <clockinst> delay-req interval
```

Syntax Description

no

    no

ptp

    ptp

<clockinst>

    <clockinst>

delay-req

    delay-req

interval

    interval

Command Mode

Port List Interface Mode

Privilege level

15

no ptp <clockinst> domain

Syntax

```
no ptp <clockinst> domain
```

Syntax Description

no

    no

ptp

    ptp

<clockinst>

    <clockinst>

domain

    domain

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> egress-latency

Syntax

```
no ptp <clockinst> egress-latency
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

egress-latency

egress-latency

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> filter

Syntax

```
no ptp <clockinst> filter
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

filter

filter

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> ho

Syntax

```
no ptp <clockinst> ho
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

ho

ho

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> ingress-latency

Syntax

```
no ptp <clockinst> ingress-latency
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

ingress-latency
ingress-latency

Command Mode
Port List Interface Mode

Privilege level
15

----

no ptp <clockinst> log

Syntax
```
no ptp <clockinst> log
```

Syntax Description

no
no

ptp
ptp

<clockinst>
<clockinst>

log
log

Command Mode
Global Configuration Mode

Privilege level
15

----

no ptp <clockinst> mode

Syntax
```
no ptp <clockinst> mode { boundary | e2etransparent | p2ptransparent | master | slave }
```

Syntax Description

no
no

ptp
ptp

<clockinst>

> <clockinst>

mode

> mode

boundary

> boundary

e2etransparent

> e2etransparent

p2ptransparent

> p2ptransparent

master

> master

slave

> slave

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> priority1

Syntax

```
no ptp <clockinst> priority1
```

Syntax Description

no

> no

ptp

> ptp

<clockinst>

> <clockinst>

priority1

> priority1

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> priority2

Syntax

```
no ptp <clockinst> priority2
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

priority2

priority2

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> servo ad

Syntax

```
no ptp <clockinst> servo ad
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

servo

servo

ad

ad

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> servo ai

Syntax

```
no ptp <clockinst> servo ai
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

servo

servo

ai

ai

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> servo ap

Syntax

```
no ptp <clockinst> servo ap
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

servo

servo

ap

ap

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> servo displaystates

Syntax

```
no ptp <clockinst> servo displaystates
```

Syntax Description

no

Negate a command or set its defaults

ptp

ptp

<clockinst>

<clockinst>

servo

servo

displaystates

displaystates

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> sync-interval

Syntax

```
no ptp <clockinst> sync-interval
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

sync-interval

sync-interval

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp <clockinst> uni <idx>

Syntax

```
no ptp <clockinst> uni <idx>
```

Syntax Description

no

no

ptp

ptp

<clockinst>

<clockinst>

uni

uni

<idx>

<idx>

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp <clockinst> wireless mode interface <port_type>

Syntax

```
no ptp <clockinst> wireless mode interface <port_type> [ <v_port_type_list> ]
```

Syntax Description

no
> Negate a command or set its defaults

ptp
> Enable wireless mode for an interface.

<clockinst>
> Clock instance [0-3]

wireless
> Enable wireless mode for one or more interfaces.

mode
> Enable wireless mode for an interface.

interface
> Interface

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

no ptp ext

Syntax

```
no ptp ext
```

Syntax Description

no
> no

ptp
> ptp

ext
> ext

Command Mode
Global Configuration Mode

Privilege level
15

----

no ptp ms-pdv

Syntax
```
no ptp ms-pdv
```

Syntax Description

no
> no

ptp
> ptp

ms-pdv
> ms-pdv

Command Mode
Global Configuration Mode

Privilege level
15

----

no ptp pps-delay

Syntax
```
no ptp pps-delay
```

Syntax Description

no
> no

ptp
> ptp

pps-delay
> pps-delay

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp pps-sync

Syntax

```
no ptp pps-sync
```

Syntax Description

no
> no

ptp
> ptp

pps-sync
> pps-sync

Command Mode

Port List Interface Mode

Privilege level

15

----

no ptp ref-clock

Syntax

```
no ptp ref-clock
```

Syntax Description

no
> no

ptp
> ptp

ref-clock
> ref-clock

Command Mode

Global Configuration Mode

Privilege level

15

----

no ptp rs422

Syntax

```
no ptp rs422
```

Syntax Description

no

no

ptp

ptp

rs422

rs422

Command Mode

Global Configuration Mode

Privilege level

15

----

no pvlan <pvlan_list>

Syntax

```
no pvlan <pvlan_list>
```

Syntax Description

no

Negate a command or set its defaults

pvlan

Private VLAN

<pvlan_list>

list of PVLANs. Range is from 1 to number of ports.

Command Mode

Port List Interface Mode

Privilege level

13

----

no pvlan isolation

Syntax

```
no pvlan isolation
```

Syntax Description

no

Negate a command or set its defaults

pvlan

Private VLAN

isolation

Port isolation

Command Mode

Port List Interface Mode

Privilege level

13

----

no qos cos

Syntax

```
no qos cos
```

Syntax Description

no

no

qos

qos

cos

cos

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos dei

Syntax

no qos dei

Syntax Description

no
no

qos
qos

dei
dei

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos dpl

Syntax

no qos dpl

Syntax Description

no
no

qos
qos

dpl
dpl

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos dscp-classify

Syntax

```
no qos dscp-classify
```

Syntax Description

no
> no

qos
> qos

dscp-classify
> dscp-classify

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos dscp-remark

Syntax

```
no qos dscp-remark
```

Syntax Description

no
> no

qos
> qos

dscp-remark
> dscp-remark

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos dscp-translate

Syntax

```
no qos dscp-translate
```

Syntax Description

no
> Negate a command or set its defaults

qos
> qos

dscp-translate
> dscp-translate

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos map cos-dscp <cos> dpl <dpl>

Syntax

```
no qos map cos-dscp <cos> dpl <dpl>
```

Syntax Description

no
> no

qos
> qos

map
> map

cos-dscp
> cos-dscp

<cos>
> <cos>

dpl
> dpl

<dpl>
> <dpl>

Command Mode
Global Configuration Mode

Privilege level
15

----

no qos map cos-tag cos <cos> dpl <dpl>

Syntax

```
no qos map cos-tag cos <cos> dpl <dpl>
```

Syntax Description

no
> no

qos
> qos

map
> map

cos-tag
> cos-tag

cos
> cos

<cos>
> <cos>

dpl
> dpl

<dpl>
> <dpl>

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos map dscp-classify

Syntax

```
no qos map dscp-classify { <dscp_num> | { be | af11 | af12 | af13 | af21 | af22
```

```
| af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5
| cs6 | cs7 | ef | va } }
```

Syntax Description

no

Negate a command or set its defaults

qos

qos

map

map

dscp-classify

dscp-classify

<dscp_num>

<dscp_num>

be

be

af11

af11

af12

af12

af13

af13

af21

af21

af22

af22

af23

af23

af31

af31

af32

af32

af33

af33

af41

af41

af42

af42

af43

   af43

cs1

   cs1

cs2

   cs2

cs3

   cs3

cs4

   cs4

cs5

   cs5

cs6

   cs6

cs7

   cs7

ef

   ef

va

   va

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos map dscp-cos

Syntax

```
no qos map dscp-cos { <dscp_num> | { be | af11 | af12 | af13 | af21 | af22 |
af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 |
cs6 | cs7 | ef | va } }
```

Syntax Description

no

   no

qos

   qos

map

map

dscp-cos

dscp-cos

<dscp_num>

<dscp_num>

be

be

af11

af11

af12

af12

af13

af13

af21

af21

af22

af22

af23

af23

af31

af31

af32

af32

af33

af33

af41

af41

af42

af42

af43

af43

cs1

cs1

cs2

cs2

cs3

cs3

cs4

cs4

cs5

cs5

cs6

cs6

cs7

cs7

ef

ef

va

va

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos map dscp-egress-translation

Syntax

```
no qos map dscp-egress-translation { <dscp_num> | { be | af11 | af12 | af13 |
af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3
| cs4 | cs5 | cs6 | cs7 | ef | va } } <dpl>
```

Syntax Description

no

no

qos

qos

map

map

dscp-egress-translation

dscp-egress-translation

<dscp_num>

<dscp_num>

be

be

af11
> af11

af12
> af12

af13
> af13

af21
> af21

af22
> af22

af23
> af23

af31
> af31

af32
> af32

af33
> af33

af41
> af41

af42
> af42

af43
> af43

cs1
> cs1

cs2
> cs2

cs3
> cs3

cs4
> cs4

cs5
> cs5

cs6
> cs6

cs7
> cs7

ef

> ef

va

> va

<dpl>

> <dpl>

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos map dscp-ingress-translation

Syntax

```
no qos map dscp-ingress-translation { <dscp_num> | { be | af11 | af12 | af13 |
af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3
| cs4 | cs5 | cs6 | cs7 | ef | va } }
```

Syntax Description

no

> no

qos

> qos

map

> map

dscp-ingress-translation

> dscp-ingress-translation

<dscp_num>

> <dscp_num>

be

> be

af11

> af11

af12

> af12

af13

> af13

af21
>   af21

af22
>   af22

af23
>   af23

af31
>   af31

af32
>   af32

af33
>   af33

af41
>   af41

af42
>   af42

af43
>   af43

cs1
>   cs1

cs2
>   cs2

cs3
>   cs3

cs4
>   cs4

cs5
>   cs5

cs6
>   cs6

cs7
>   cs7

ef
>   ef

va
>   va

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos map tag-cos pcp <pcp> dei <dei>

Syntax

```
no qos map tag-cos pcp <pcp> dei <dei>
```

Syntax Description

no
> no

qos
> qos

map
> map

tag-cos
> tag-cos

pcp
> pcp

<pcp>
> <pcp>

dei
> dei

<dei>
> <dei>

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos pcp

Syntax

```
no qos pcp
```

Syntax Description

no

no

qos

qos

pcp

pcp

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos policer

Syntax

```
no qos policer
```

Syntax Description

no

no

qos

qos

policer

policer

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos qce <qce_id_range>

Syntax

```
no qos qce <qce_id_range>
```

Syntax Description

no

no

qos

qos

qce

qce

<qce_id_range>

<qce_id_range>

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos qce

Syntax

```
no qos qce { [ addr ] [ key ] }
```

Syntax Description

no

no

qos

qos

qce

qce

addr

addr

key

key

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos queue-policer queue <queue>

Syntax

```
no qos queue-policer queue <queue>
```

Syntax Description

no

    no

qos

    qos

queue-policer

    queue-policer

queue

    queue

<queue>

    <queue>

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos queue-shaper queue <queue>

Syntax

```
no qos queue-shaper queue <queue>
```

Syntax Description

no

    no

qos

    qos

queue-shaper

    queue-shaper

queue

    queue

<queue>

    <queue>

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos shaper

Syntax

```
no qos shaper
```

Syntax Description

no

no

qos

qos

shaper

shaper

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos storm

Syntax

```
no qos storm { unicast | broadcast | unknown }
```

Syntax Description

no

no

qos

qos

storm

storm

unicast

unicast

broadcast
> broadcast

unknown
> unknown

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos storm

Syntax

```
no qos storm { unicast | multicast | broadcast }
```

Syntax Description

no
> no

qos
> qos

storm
> storm

unicast
> unicast

multicast
> multicast

broadcast
> broadcast

Command Mode

Global Configuration Mode

Privilege level

15

----

no qos tag-remark

Syntax

```
no qos tag-remark
```

Syntax Description

no
> no

qos
> qos

tag-remark
> tag-remark

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos trust dscp

Syntax

```
no qos trust dscp
```

Syntax Description

no
> Negate a command or set its defaults

qos
> qos

trust
> trust

dscp
> dscp

Command Mode

Port List Interface Mode

Privilege level

15

----

no qos trust tag

Syntax

```
no qos trust tag
```

Syntax Description

no
    Negate a command or set its defaults

qos
    qos

trust
    trust

tag
    tag

Command Mode
Port List Interface Mode

Privilege level
15

----

no qos wred queue <queue>

Syntax
    no qos wred queue <queue>

Syntax Description

no
    no

qos
    qos

wred
    wred

queue
    queue

<queue>
    <queue>

Command Mode
Global Configuration Mode

Privilege level
15

no qos wrr

Syntax

```
no qos wrr
```

Syntax Description

no

    no

qos

    qos

wrr

    wrr

Command Mode

Port List Interface Mode

Privilege level

15

----

no radius-server attribute 32

Syntax

```
no radius-server attribute 32
```

Syntax Description

no

    no

radius-server

    radius-server

attribute

    attribute

32

    32

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server attribute 4

Syntax

```
no radius-server attribute 4
```

Syntax Description

no
> no

radius-server
> radius-server

attribute
> attribute

4
> 4

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server attribute 95

Syntax

```
no radius-server attribute 95
```

Syntax Description

no
> no

radius-server
> radius-server

attribute
> attribute

95
> 95

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server deadtime

Syntax

```
no radius-server deadtime
```

Syntax Description

no

    no

radius-server

    radius-server

deadtime

    deadtime

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server host <host_name>

Syntax

```
no radius-server host <host_name> [ auth-port <auth_port> ] [ acct-port
<acct_port> ]
```

Syntax Description

no

    no

radius-server

    radius-server

host

    host

<host_name>

    <host_name>

auth-port

    auth-port

<auth_port>

<auth_port>

acct-port

acct-port

<acct_port>

<acct_port>

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server key

Syntax

```
no radius-server key
```

Syntax Description

no

no

radius-server

radius-server

key

key

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server retransmit

Syntax

```
no radius-server retransmit
```

Syntax Description

no

no

radius-server

radius-server

retransmit

retransmit

Command Mode

Global Configuration Mode

Privilege level

15

----

no radius-server timeout

Syntax

```
no radius-server timeout
```

Syntax Description

no

no

radius-server

radius-server

timeout

timeout

Command Mode

Global Configuration Mode

Privilege level

15

----

no range <entry_name>

Syntax

```
no range <entry_name>
```

Syntax Description

no

Negate a command or set its defaults

range

A range of IPv4/IPv6 multicast addresses for the profile

<entry_name>
>   Range entry name in 16 char's

Command Mode
IPMC Profile Mode

Privilege level
15

----

no rfc2544 profile <profile_name>

Syntax
```
no rfc2544 profile <profile_name>
```

Syntax Description

no
>   no

rfc2544
>   rfc2544

profile
>   profile

<profile_name>
>   <profile_name>

Command Mode
Global Configuration Mode

Privilege level
15

----

no rmon alarm <id>

Syntax
```
no rmon alarm <id>
```

Syntax Description

no
>   Negate a command or set its defaults

rmon
>   Remote Monitoring

alarm

Configure an RMON alarm

<id>

Alarm entry ID

Command Mode

Global Configuration Mode

Privilege level

15

----

no rmon collection history <id>

Syntax

```
no rmon collection history <id>
```

Syntax Description

no

Negate a command or set its defaults

rmon

Configure Remote Monitoring on an interface

collection

Configure Remote Monitoring Collection on an interface

history

Configure history

<id>

History entry ID

Command Mode

Port List Interface Mode

Privilege level

15

no rmon collection stats <id>

Syntax

```
no rmon collection stats <id>
```

Syntax Description

no

Negate a command or set its defaults

rmon

Configure Remote Monitoring on an interface

collection

Configure Remote Monitoring Collection on an interface

stats

Configure statistics

<id>

Statistics entry ID

Command Mode

Port List Interface Mode

Privilege level

15

----

no rmon event <id>

Syntax

```
no rmon event <id>
```

Syntax Description

no

Negate a command or set its defaults

rmon

Remote Monitoring

event

Configure an RMON event

<id>

Event entry ID

Command Mode

Global Configuration Mode

Privilege level

15

----

no sequence-check

Syntax

```
no sequence-check
```

Syntax Description

no

Negate a command or set its defaults

sequence-check

Enable (no-form disables) sequence number checking of looped TST PDUs

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no sflow

Syntax

```
no sflow [ <sampler_idx_list> ]
```

Syntax Description

no

Negate a command or set its defaults

sflow

Enables/disables flow sampling on this port.

<sampler_idx_list>

Sampler instance

Command Mode

Port List Interface Mode

Privilege level

15

----

no sflow agent-ip

Syntax

```
no sflow agent-ip
```

Syntax Description

no

no

sflow
>   sflow

agent-ip
>   agent-ip

Command Mode

Global Configuration Mode

Privilege level

15

----

no sflow collector-address

Syntax

>   no sflow collector-address [receiver <rcvr_idx_list>]

Syntax Description

no
>   no

sflow
>   sflow

collector-address
>   collector-address

receiver
>   receiver

<rcvr_idx_list>
>   <rcvr_idx_list>

Command Mode

Global Configuration Mode

Privilege level

15

----

no sflow collector-port

Syntax

>   no sflow collector-port [receiver <rcvr_idx_list>]

Syntax Description

no
> no

sflow
> sflow

collector-port
> collector-port

receiver
> receiver

<rcvr_idx_list>
> <rcvr_idx_list>

Command Mode
Global Configuration Mode

Privilege level
15

----

no sflow counter-poll-interval

Syntax
```
no sflow counter-poll-interval [ <sampler_idx_list> ]
```

Syntax Description

no
> no

sflow
> sflow

counter-poll-interval
> counter-poll-interval

<sampler_idx_list>
> <sampler_idx_list>

Command Mode
Port List Interface Mode

Privilege level
15

----

no sflow max-datagram-size

Syntax

```
no sflow max-datagram-size [ receiver <rcvr_idx_list> ]
```

Syntax Description

no

no

sflow

sflow

max-datagram-size

max-datagram-size

receiver

receiver

<rcvr_idx_list>

<rcvr_idx_list>

Command Mode

Global Configuration Mode

Privilege level

15

----

no sflow max-sampling-size

Syntax

```
no sflow max-sampling-size [ sampler <sampler_idx_list> ]
```

Syntax Description

no

no

sflow

sflow

max-sampling-size

max-sampling-size

sampler

sampler

<sampler_idx_list>

<sampler_idx_list>

Command Mode

Port List Interface Mode

Privilege level

15

----

no sflow timeout

Syntax

```
no sflow timeout [ receiver <rcvr_idx_list> ]
```

Syntax Description

no

no

sflow

sflow

timeout

timeout

receiver

receiver

<rcvr_idx_list>

<rcvr_idx_list>

Command Mode

Global Configuration Mode

Privilege level

15

----

no shutdown

Syntax

```
no shutdown
```

Syntax Description

no

Negate a command or set its defaults

shutdown

Shutdown of the interface.

Command Mode

Port List Interface Mode

Privilege level

15

----

no shutdown

Syntax

```
no shutdown
```

Syntax Description

no
   Negate a command or set its defaults

shutdown
   Disable the trap configuration

Command Mode

SNMP Server Host Mode

Privilege level

15

----

no snmp-server

Syntax

```
no snmp-server
```

Syntax Description

no
   Negate a command or set its defaults

snmp-server
   Enable SNMP server

Command Mode

Global Configuration Mode

Privilege level

13

----

no snmp-server access <group_name> model

Syntax

```
no snmp-server access <group_name> model { v1 | v2c | v3 | any } level { auth |
noauth | priv }
```

Syntax Description

no

Negate a command or set its defaults

snmp-server

SNMP(Simple Network Management Protocol)

access

access configuration

<group_name>

group name

model

security model

v1

v1 security model

v2c

v2c security model

v3

v3 security model

any

any security model

level

security level

auth

authNoPriv Security Level

noauth

noAuthNoPriv Security Level

priv

authPriv Security Level

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server community v2c

Syntax

```
no snmp-server community v2c
```

Syntax Description

no
> no

snmp-server
> snmp-server

community
> community

v2c
> v2c

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server community v3 <community>

Syntax

```
no snmp-server community v3 <community>
```

Syntax Description

no
> no

snmp-server
> snmp-server

community
> community

v3
> v3

<community>
> <community>

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server contact

Syntax

```
no snmp-server contact
```

Syntax Description

no

> no

snmp-server

> snmp-server

contact

> contact

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server engined-id local

Syntax

```
no snmp-server engined-id local
```

Syntax Description

no

> no

snmp-server

> snmp-server

engined-id

> engined-id

local

> local

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server host <conf_name>

Syntax

```
no snmp-server host <conf_name>
```

Syntax Description

no

Negate a command or set its defaults

snmp-server

Set SNMP server's configurations

host

Set SNMP host's configurations

<conf_name>

Name of the host configuration

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server host <conf_name> traps

Syntax

```
no snmp-server host <conf_name> traps
```

Syntax Description

no

Negate a command or set its defaults

snmp-server

Set SNMP server's configurations

host

Set SNMP host's configurations

<conf_name>
Name of the host configuration

traps
Delete trap configuration

Command Mode

Port List Interface Mode

Privilege level

15

----

no snmp-server location

Syntax

```
no snmp-server location
```

Syntax Description

no
no

snmp-server
snmp-server

location
location

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server security-to-group model

Syntax

```
no snmp-server security-to-group model { v1 | v2c | v3 } name <security_name>
```

Syntax Description

no
no

snmp-server
snmp-server

security-to-group

    security-to-group

model

    model

v1

    v1

v2c

    v2c

v3

    v3

name

    name

<security_name>

    <security_name>

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server trap

Syntax

```
no snmp-server trap
```

Syntax Description

no

    Negate a command or set its defaults

snmp-server

    Set SNMP server's configurations

trap

    Set trap's configurations

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server user <username> engine-id <engineID>

Syntax

```
no snmp-server user <username> engine-id <engineID>
```

Syntax Description

no
> no

snmp-server
> snmp-server

user
> user

<username>
> <username>

engine-id
> engine-id

<engineID>
> <engineID>

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server version

Syntax

```
no snmp-server version
```

Syntax Description

no
> no

snmp-server
> snmp-server

version
> version

Command Mode

Global Configuration Mode

Privilege level

15

----

no snmp-server view <view_name> <oid_subtree>

Syntax

```
no snmp-server view <view_name> <oid_subtree>
```

Syntax Description

no

Negate a command or set its defaults

snmp-server

SNMP(Simple Network Management Protocol)

view

MIB view configuration

<view_name>

MIB view name

<oid_subtree>

MIB view OID

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree

Syntax

```
no spanning-tree
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

Enable/disable STP on this interface

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree

Syntax

```
no spanning-tree
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

Enable/disable STP on this interface

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree auto-edge

Syntax

```
no spanning-tree auto-edge
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

auto-edge

Auto detect edge status

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree auto-edge

Syntax

```
no spanning-tree auto-edge
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

auto-edge

Auto detect edge status

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree bpdu-guard

Syntax

```
no spanning-tree bpdu-guard
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

bpdu-guard

Enable/disable BPDU guard

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree bpdu-guard

Syntax

```
no spanning-tree bpdu-guard
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

bpdu-guard
  Enable/disable BPDU guard

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree edge

Syntax

```
no spanning-tree edge
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

edge
  Edge port

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree edge

Syntax

```
no spanning-tree edge
```

Syntax Description

no
> Negate a command or set its defaults

spanning-tree
> STP Bridge

edge
> Edge port

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree edge bpdu-filter

Syntax

```
no spanning-tree edge bpdu-filter
```

Syntax Description

no
> Negate a command or set its defaults

spanning-tree
> STP Bridge

edge
> Edge ports

bpdu-filter
> Enable BPDU filter (stop BPDU tx/rx)

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree edge bpdu-guard

Syntax

```
no spanning-tree edge bpdu-guard
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

edge
  Edge ports

bpdu-guard
  Enable BPDU guard

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree link-type

Syntax

```
no spanning-tree link-type
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

link-type
  Port link-type

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree link-type

Syntax

```
no spanning-tree link-type
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

link-type
  Port link-type

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree mode

Syntax

```
no spanning-tree mode
```

Syntax Description

no
  Negate a command or set its defaults

spanning-tree
  STP Bridge

mode
  STP protocol mode

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree mst <instance> cost

Syntax

```
no spanning-tree mst <instance> cost
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

cost

STP cost of this port

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree mst <instance> cost

Syntax

```
no spanning-tree mst <instance> cost
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

cost

STP cost of this port

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree mst <instance> port-priority

Syntax

```
no spanning-tree mst <instance> port-priority
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

port-priority

STP priority of this port

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree mst <instance> port-priority

Syntax

```
no spanning-tree mst <instance> port-priority
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

port-priority

STP priority of this port

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree mst <instance> priority

Syntax

```
no spanning-tree mst <instance> priority
```

Syntax Description

no

Negate a command or set its defaults

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

priority

Priority of the instance

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree mst <instance> vlan

Syntax

```
no spanning-tree mst <instance> vlan
```

Syntax Description

no
Negate a command or set its defaults

spanning-tree
STP Bridge

mst
STP bridge instance

<instance>
instance 0-7 (CIST=0, MST2=1...)

vlan
VLAN keyword

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree mst forward-time

Syntax

```
no spanning-tree mst forward-time
```

Syntax Description

no
Negate a command or set its defaults

spanning-tree
STP Bridge

mst
STP bridge instance

forward-time
Delay between port states

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree mst max-age

Syntax

```
no spanning-tree mst max-age
```

Syntax Description

no
>Negate a command or set its defaults

spanning-tree
>STP Bridge

mst
>STP bridge instance

max-age
>Max bridge age before timeout

Command Mode
Global Configuration Mode

Privilege level
15

----

no spanning-tree mst max-hops

Syntax

```
no spanning-tree mst max-hops
```

Syntax Description

no
>Negate a command or set its defaults

spanning-tree
>STP Bridge

mst
>STP bridge instance

max-hops
>MSTP bridge max hop count

Command Mode
Global Configuration Mode

Privilege level

15

----

no spanning-tree mst name

Syntax

```
no spanning-tree mst name
```

Syntax Description

no
Negate a command or set its defaults

spanning-tree
STP Bridge

mst
STP bridge instance

name
Bridge name keyword

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree recovery interval

Syntax

```
no spanning-tree recovery interval
```

Syntax Description

no
Negate a command or set its defaults

spanning-tree
STP Bridge

recovery
The error recovery timeout

interval
Interval

Command Mode

Global Configuration Mode

Privilege level

15

----

no spanning-tree restricted-role

Syntax

```
no spanning-tree restricted-role
```

Syntax Description

no
> Negate a command or set its defaults

spanning-tree
> STP Bridge

restricted-role
> Port role is restricted (never root port)

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree restricted-role

Syntax

```
no spanning-tree restricted-role
```

Syntax Description

no
> Negate a command or set its defaults

spanning-tree
> STP Bridge

restricted-role
> Port role is restricted (never root port)

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree restricted-tcn

Syntax

```
no spanning-tree restricted-tcn
```

Syntax Description

no
　Negate a command or set its defaults

spanning-tree
　STP Bridge

restricted-tcn
　Restrict topology change notifications

Command Mode

Port List Interface Mode

Privilege level

15

----

no spanning-tree restricted-tcn

Syntax

```
no spanning-tree restricted-tcn
```

Syntax Description

no
　Negate a command or set its defaults

spanning-tree
　STP Bridge

restricted-tcn
　Restrict topology change notifications

Command Mode

STP Aggregation Mode

Privilege level

15

----

no spanning-tree transmit hold-count

Syntax

```
no spanning-tree transmit hold-count
```

Syntax Description

no
> Negate a command or set its defaults

spanning-tree
> STP Bridge

transmit
> transmit

hold-count
> hold-count

Command Mode

Global Configuration Mode

Privilege level

15

----

no speed

Syntax

```
no speed
```

Syntax Description

no
> Configure to default.

speed
> Configure speed to default.

Command Mode

Port List Interface Mode

Privilege level

15

----

no switchport access vlan

Syntax

```
no switchport access vlan
```

Syntax Description

no
> no

switchport
> switchport

access
> access

vlan
> vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport forbidden vlan

Syntax

```
no switchport forbidden vlan
```

Syntax Description

no
> no

switchport
> switchport

forbidden
> forbidden

vlan
> vlan

Command Mode

Port List Interface Mode

Privilege level

15

----

no switchport hybrid acceptable-frame-type

Syntax

```
no switchport hybrid acceptable-frame-type
```

Syntax Description

no
   no

switchport
   switchport

hybrid
   hybrid

acceptable-frame-type
   acceptable-frame-type

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport hybrid allowed vlan

Syntax

```
no switchport hybrid allowed vlan
```

Syntax Description

no
   no

switchport
   switchport

hybrid
   hybrid

allowed
   allowed

vlan
> vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport hybrid egress-tag

Syntax

```
no switchport hybrid egress-tag
```

Syntax Description

no
> no

switchport
> switchport

hybrid
> hybrid

egress-tag
> egress-tag

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport hybrid ingress-filtering

Syntax

```
no switchport hybrid ingress-filtering
```

Syntax Description

no
> Negate a command or set its defaults

switchport
> Set switching mode characteristics

hybrid
>   Set hybrid characteristics of the interface

ingress-filtering
>   VLAN Ingress filter configuration

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport hybrid native vlan

Syntax

```
no switchport hybrid native vlan
```

Syntax Description

no
>   no

switchport
>   switchport

hybrid
>   hybrid

native
>   native

vlan
>   vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport hybrid port-type

Syntax

```
no switchport hybrid port-type
```

Syntax Description

no
> no

switchport
> switchport

hybrid
> hybrid

port-type
> port-type

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport mode

Syntax

```
no switchport mode
```

Syntax Description

no
> no

switchport
> switchport

mode
> mode

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport trunk allowed vlan

Syntax

```
no switchport trunk allowed vlan
```

Syntax Description

no

no

switchport

switchport

trunk

trunk

allowed

allowed

vlan

vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport trunk native vlan

Syntax

```
no switchport trunk native vlan
```

Syntax Description

no

no

switchport

switchport

trunk

trunk

native

native

vlan

vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport trunk vlan tag native

Syntax

```
no switchport trunk vlan tag native
```

Syntax Description

no

Negate a command or set its defaults

switchport

Set switching mode characteristics

trunk

Set trunk characteristics of the interface

vlan

Vlan commands

tag

tag parameters

native

tag native vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport vlan ip-subnet id <vce_id_list>

Syntax

```
no switchport vlan ip-subnet id <vce_id_list>
```

Syntax Description

no

no

switchport

switchport

vlan

vlan

ip-subnet

ip-subnet

id
> id

<vce_id_list>
> <vce_id_list>

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport vlan mac <mac_addr> vlan <vid>

Syntax

```
no switchport vlan mac <mac_addr> vlan <vid>
```

Syntax Description

no
> Negate a command or set its defaults

switchport
> Switching mode characteristics

vlan
> VLAN commands

mac
> MAC-based VLAN commands

<mac_addr>
> 48 bit unicast MAC address: xx:xx:xx:xx:xx:xx

vlan
> vlan keyword

<vid>
> VLAN ID required for the group to VLAN mapping (Range: 1-4095)

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport vlan mapping

Syntax

```
no switchport vlan mapping
```

Syntax Description

no
> no

switchport
> switchport

vlan
> vlan

mapping
> mapping

Command Mode

Port List Interface Mode

Privilege level

15

----

no switchport vlan mapping <group> <v_vlan_id_from>

Syntax

```
no switchport vlan mapping <group> <v_vlan_id_from>
```

Syntax Description

no
> Set switching mode characteristics

switchport
> vlan - VLAN translation

vlan
> Add VLAN translation entry into a group.

mapping
> Group id

<group>
> <group>

<v_vlan_id_from>
> <v_vlan_id_from>

Command Mode

Global Configuration Mode

Privilege level

15

----

no switchport vlan protocol group <grp_id> vlan <vid>

Syntax

```
no switchport vlan protocol group <grp_id> vlan <vid>
```

Syntax Description

no

Negate a command or set its defaults

switchport

Switching mode characteristics

vlan

VLAN commands

protocol

Protocol-based VLAN commands

group

Protocol-based VLAN group commands

<grp_id>

Group Name (Range: 1 - 16 characters)

vlan

vlan keyword

<vid>

VLAN ID required for the group to VLAN mapping (Range: 1-4095)

Command Mode

Port List Interface Mode

Privilege level

13

----

no switchport voice vlan discovery-protocol

Syntax

```
no switchport voice vlan discovery-protocol
```

Syntax Description

no
> Negate a command or set its defaults

switchport
> Set switching mode characteristics

voice
> Voice appliance attributes

vlan
> Vlan for voice traffic

discovery-protocol
> Set Voice VLAN port discovery protocol

Command Mode

Port List Interface Mode

Privilege level

15

----

no switchport voice vlan mode

Syntax

```
no switchport voice vlan mode
```

Syntax Description

no
> Negate a command or set its defaults

switchport
> Set switching mode characteristics

voice
> Voice appliance attributes

vlan
> Vlan for voice traffic

mode
> Set Voice VLAN port mode

Command Mode

Port List Interface Mode

Privilege level

15

----

no switchport voice vlan security

Syntax

```
no switchport voice vlan security
```

Syntax Description

no

Negate a command or set its defaults

switchport

Set switching mode characteristics

voice

Voice appliance attributes

vlan

Vlan for voice traffic

security

Enable Voice VLAN port security mode

Command Mode

Port List Interface Mode

Privilege level

15

----

no tacacs-server deadtime

Syntax

```
no tacacs-server deadtime
```

Syntax Description

no

no

tacacs-server

tacacs-server

deadtime

deadtime

Command Mode

Global Configuration Mode

Privilege level

15

----

no tacacs-server host <host_name>

Syntax

```
no tacacs-server host <host_name> [ port <port> ]
```

Syntax Description

no

    no

tacacs-server

    tacacs-server

host

    host

<host_name>

    <host_name>

port

    port

<port>

    <port>

Command Mode

Global Configuration Mode

Privilege level

15

----

no tacacs-server key

Syntax

```
no tacacs-server key
```

Syntax Description

no

    no

tacacs-server

    tacacs-server

key
> key

Command Mode
Global Configuration Mode

Privilege level
15

----

no tacacs-server timeout

Syntax
```
no tacacs-server timeout
```

Syntax Description

no
> no

tacacs-server
> tacacs-server

timeout
> timeout

Command Mode
Global Configuration Mode

Privilege level
15

----

no terminal editing

Syntax
```
no terminal editing
```

Syntax Description

no
> Negate a command or set its defaults

terminal
> Set terminal line parameters

editing
> Enable command line editing

Command Mode

User EXEC Mode

Privilege level

13

----

no terminal exec-timeout

Syntax

```
no terminal exec-timeout
```

Syntax Description

no
Negate a command or set its defaults

terminal
Set terminal line parameters

exec-timeout
Set the EXEC timeout

Command Mode

User EXEC Mode

Privilege level

15

----

no terminal history size

Syntax

```
no terminal history size
```

Syntax Description

no
Negate a command or set its defaults

terminal
Set terminal line parameters

history
Control the command history function

size
Set history buffer size

Command Mode

User EXEC Mode

Privilege level

15

----

no terminal length

Syntax

```
no terminal length
```

Syntax Description

no
> Negate a command or set its defaults

terminal
> Set terminal line parameters

length
> Set number of lines on a screen

Command Mode

User EXEC Mode

Privilege level

15

----

no terminal width

Syntax

```
no terminal width
```

Syntax Description

no
> Negate a command or set its defaults

terminal
> Set terminal line parameters

width
> Set width of the display terminal

Command Mode

User EXEC Mode

Privilege level

15

----

no test-interface

Syntax

```
no test-interface
```

Syntax Description

no

> no

test-interface

> test-interface

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no test-vlan

Syntax

```
no test-vlan
```

Syntax Description

no

> no

test-vlan

> test-vlan

Command Mode

RFC2544 Profile Mode

Privilege level

15

no thermal-protect port-prio

Syntax

```
no thermal-protect port-prio
```

Syntax Description

no
> no

thermal-protect
> thermal-protect

port-prio
> port-prio

Command Mode

Port List Interface Mode

Privilege level

15

no thermal-protect prio <prio_list>

Syntax

```
no thermal-protect prio <prio_list>
```

Syntax Description

no
> no

thermal-protect
> thermal-protect

prio
> prio

<prio_list>
> <prio_list>

Command Mode

Global Configuration Mode

Privilege level

15

----

no throughput

Syntax

```
no throughput
```

Syntax Description

no

no

throughput

throughput

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

no traps

Syntax

no traps

Syntax Description

no

Negate a command or set its defaults

traps

trap event configuration

Command Mode

SNMP Server Host Mode

Privilege level

15

----

no upnp

Syntax

no upnp

Syntax Description

no

Negate a command or set its defaults

upnp

Set UPnP's configurations

Command Mode

Global Configuration Mode

Privilege level

15

----

no upnp advertising-duration

Syntax

```
no upnp advertising-duration
```

Syntax Description

no
> Negate a command or set its defaults

upnp
> Set UPnP's configurations

advertising-duration
> Set advertising duration

Command Mode

Global Configuration Mode

Privilege level

15

----

no upnp ttl

Syntax

```
no upnp ttl
```

Syntax Description

no
> Negate a command or set its defaults

upnp
> Set UPnP's configurations

ttl
> Set TTL value

Command Mode

Global Configuration Mode

Privilege level

15

----

no username <username>

Syntax

```
no username <username>
```

Syntax Description

no

Negate a command or set its defaults

username

Establish User Name Authentication

<username>

User name allows letters, numbers and underscores

Command Mode

Global Configuration Mode

Privilege level

15

----

no vendor class-identifier <class_id>

Syntax

```
no vendor class-identifier <class_id>
```

Syntax Description

no

Negate a command or set its defaults

vendor

Vendor configuration

class-identifier

Vendor class identifier

<class_id>

Class identifier in 64 characters

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

no version

Syntax

```
no version
```

Syntax Description

no
 Negate a command or set its defaults

version
 Set SNMP trap version

Command Mode

SNMP Server Host Mode

Privilege level

15

----

no vlan protocol

Syntax

```
no vlan protocol { { eth2 { <etype> | arp | ip | ipx | at } } | { snap { <oui>
| rfc-1042 | snap-8021h } <pid> } | { llc <dsap> <ssap> } } group <grp_id>
```

Syntax Description

no
 Negate a command or set its defaults

vlan
 Vlan commands

protocol
 Protocol-based VLAN commands

eth2
 Ethernet-based VLAN commands

<etype>
 Ether Type(Range: 0x600 - 0xFFFF)

arp
 Ether Type is ARP

ip

Ether Type is IP

ipx

Ether Type is IPX

at

Ether Type is AppleTalk

snap

SNAP-based VLAN group

<oui>

SNAP OUI (Range 0x000000 - 0XFFFFFF)

rfc-1042

SNAP OUI is rfc-1042

snap-8021h

SNAP OUI is 8021h

<pid>

PID (Range: 0x0 - 0xFFFF)

llc

LLC-based VLAN group

<dsap>

DSAP (Range: 0x00 - 0xFF)

<ssap>

SSAP (Range: 0x00 - 0xFF)

group

Protocol-based VLAN group commands

<grp_id>

Group Name (Range: 1 - 16 characters)

Command Mode

Global Configuration Mode

Privilege level

13

----

no vlan

Syntax

```
no vlan { { ethertype s-custom-port } | <vlan_list> }
```

Syntax Description

no

no

vlan

vlan

ethertype

ethertype

s-custom-port

s-custom-port

<vlan_list>

<vlan_list>

Command Mode

Global Configuration Mode

Privilege level

15

----

no voice vlan

Syntax

no voice vlan

Syntax Description

no

Negate a command or set its defaults

voice

Voice appliance attributes

vlan

Vlan for voice traffic

Command Mode

Global Configuration Mode

Privilege level

15

----

no voice vlan aging-time

Syntax

```
no voice vlan aging-time
```

Syntax Description

no

Negate a command or set its defaults

voice

Voice appliance attributes

vlan

Vlan for voice traffic

aging-time

Set secure learning aging time

Command Mode

Global Configuration Mode

Privilege level

15

----

no voice vlan class

Syntax

```
no voice vlan class
```

Syntax Description

no

Negate a command or set its defaults

voice

Voice appliance attributes

vlan

Vlan for voice traffic

class

Set traffic class

Command Mode

Global Configuration Mode

Privilege level

15

----

no voice vlan oui <oui>

Syntax

    no voice vlan oui <oui>

Syntax Description

no

Negate a command or set its defaults

voice

Voice appliance attributes

vlan

Vlan for voice traffic

oui

OUI configuration

<oui>

Traffic class value

Command Mode

Global Configuration Mode

Privilege level

15

----

no voice vlan vid

Syntax

    no voice vlan vid

Syntax Description

no

Negate a command or set its defaults

voice

Voice appliance attributes

vlan

Vlan for voice traffic

vid

Set VLAN ID

Command Mode

Global Configuration Mode

Privilege level

15

----

no web privilege group

Syntax

```
no web privilege group [ <group_name> ] level
```

Syntax Description

no

no

web

web

privilege

privilege

group

group

<group_name>

<group_name>

level

level

Command Mode

Global Configuration Mode

Privilege level

15

----

no width

Syntax

```
no width
```

Syntax Description

no
> Negate a command or set its defaults

width
> Set width of the display terminal

Command Mode

Line Configuration Mode

Privilege level

15

----

ntp

Syntax

```
ntp
```

Syntax Description

ntp
> Configure NTP

Command Mode

Global Configuration Mode

Privilege level

13

----

ntp server <index_var> ip-address

Syntax

```
ntp server <index_var> ip-address { <ipv4_var> | <ipv6_var> | <name_var> }
```

Syntax Description

ntp
> Configure NTP

server
> Configure NTP server

<index_var>
> index number

ip-address

ip address

<ipv4_var>

ipv4 address

<ipv6_var>

ipv6 address

<name_var>

domain name

Command Mode

Global Configuration Mode

Privilege level

13

----

ntp server <index_var> ip-address

Syntax

```
ntp server <index_var> ip-address { <ipv4_var> | <name_var> }
```

Syntax Description

ntp

Configure NTP

server

Configure NTP server

<index_var>

index number

ip-address

ip address

<ipv4_var>

ipv4 address

<name_var>

domain name

Command Mode

Global Configuration Mode

Privilege level

13

----

ntp-server <ip>

Syntax

```
ntp-server <ip> [ <ip1> [ <ip2> [ <ip3> ] ] ]
```

Syntax Description

ntp-server

NTP servers

<ip>

Server's IP address

<ip1>

Server's IP address

<ip2>

Server's IP address

<ip3>

Server's IP address

Command Mode

DHCP Pool Configuration Mode

Privilege level

13

----

password encrypted <encry_password>

Syntax

```
password encrypted <encry_password>
```

Syntax Description

password

Specify the password for the administrator

encrypted

Specifies an ENCRYPTED password will follow

<encry_password>

The ENCRYPTED (hidden) user password. Notice the ENCRYPTED password will be decoded by system internally. You cannot directly use it as same as the Plain Text and it is not human-readable text normally.

Command Mode

Global Configuration Mode

Privilege level

15

----

password none

Syntax

```
password none
```

Syntax Description

password

Specify the password for the administrator

none

NULL password

Command Mode

Global Configuration Mode

Privilege level

15

----

password unencrypted <password>

Syntax

```
password unencrypted <password>
```

Syntax Description

password

Specify the password for the administrator

unencrypted

Specifies an UNENCRYPTED password will follow

<password>

The UNENCRYPTED (Plain Text) user password. Any printable characters including space is accepted. Notice that you have no change to get the Plain Text password after this command. The system will always display the ENCRYPTED password.

Command Mode

Global Configuration Mode

Privilege level

15

----

ping ip <v_ip_addr>

Syntax

```
ping ip <v_ip_addr> [ repeat <count> ] [ size <size> ] [ interval <seconds> ]
```

Syntax Description

ping

Send ICMP echo messages

ip

IP (ICMP) echo

<v_ip_addr>

ICMP destination address

repeat

Specify repeat count

<count>

1-60; Default is 5

size

Specify datagram size

<size>

2-1452; Default is 56 (excluding MAC, IP and ICMP headers)

interval

Specify repeat interval

<seconds>

0-30; Default is 0

Command Mode

User EXEC Mode

Privilege level

0

----

ping ipv6 <v_ipv6_addr>

Syntax

```
ping ipv6 <v_ipv6_addr> [ repeat <count> ] [ size <size> ] [ interval <seconds>
] [ interface vlan <v_vlan_id> ]
```

Syntax Description

ping

Send ICMP echo messages

ipv6

IPv6 (ICMPv6) echo

<v_ipv6_addr>

ICMPv6 destination address

repeat

Specify repeat count

<count>

1-60; Default is 5

size

Specify datagram size

<size>

2-1452; Default is 56 (excluding MAC, IP and ICMP headers)

interval

Specify repeat interval

<seconds>

0-30; Default is 0

interface

Select an interface to configure

vlan

VLAN Interface

<v_vlan_id>

VLAN identifier(s): VID

Command Mode

User EXEC Mode

Privilege level

0

----

platform phy failover

Syntax

```
platform phy failover
```

Syntax Description

platform
   platform

phy
   phy

failover
   failover

Command Mode

Port List Interface Mode

Privilege level

15

----

platform phy instance default-activate

Syntax

```
platform phy instance default-activate
```

Syntax Description

platform
   platform

phy
   phy

instance
   instance

default-activate
   default-activate

Command Mode

User EXEC Mode

Privilege level

15

----

platform phy instance restart

Syntax

```
platform phy instance restart { cool | warm }
```

Syntax Description

platform
  platform

phy
  phy

instance
  instance

restart
  restart

cool
  cool

warm
  warm

Command Mode

User EXEC Mode

Privilege level

15

----

platform phy instance

Syntax

```
platform phy instance { 1g | 10g }
```

Syntax Description

platform
  platform

phy
  phy

instance
  instance

1g
  1g

10g
  10g

Command Mode

Global Configuration Mode

Privilege level

15

----

port-security

Syntax

```
port-security
```

Syntax Description

port-security

Enable/disable port security globally.

Command Mode

Global Configuration Mode

Privilege level

15

----

port-security

Syntax

```
port-security
```

Syntax Description

port-security

Enable/disable port security per interface.

Command Mode

Port List Interface Mode

Privilege level

15

----

port-security aging

Syntax

```
port-security aging
```

Syntax Description

port-security

Port security (psec limit)

aging

Enable/disable port security aging.

Command Mode

Global Configuration Mode

Privilege level

15

----

port-security aging time <v_10_to_10000000>

Syntax

```
port-security aging time <v_10_to_10000000>
```

Syntax Description

port-security

Port security (psec limit)

aging

Time in seconds between check for activity on learned MAC addresses.

time

Time in seconds between check for activity on learned MAC addresses.

<v_10_to_10000000>

seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

port-security maximum

Syntax

```
port-security maximum [ <v_1_to_1024> ]
```

Syntax Description

port-security

Port security (psec limit)

maximum

Miximum number of MAC addresses that can be learned on this set of interfaces.

<v_1_to_1024>

Number of addresses

Command Mode

Port List Interface Mode

Privilege level

15

----

port-security violation

Syntax

```
port-security violation { protect | trap | trap-shutdown | shutdown }
```

Syntax Description

port-security

port-security

violation

violation

protect

protect

trap

trap

trap-shutdown

trap-shutdown

shutdown

shutdown

Command Mode

Port List Interface Mode

Privilege level

15

----

privilege level <privileged_level>

Syntax

```
privilege level <privileged_level>
```

Syntax Description

privilege

Change privilege level for line

level

Assign default privilege level for line

<privileged_level>

Default privilege level for line

Command Mode

Line Configuration Mode

Privilege level

15

----

privilege

Syntax

```
privilege { exec | configure | config-vlan | line | interface | if-vlan | ipmc-
profile | snmps-host | stp-aggr | dhcp-pool | rfc2544-profile } level
<privilege> <cmd>
```

Syntax Description

privilege

Command privilege parameters

exec

Exec mode

configure

Global configuration mode

config-vlan

VLAN Configuration Mode

line

Line configuration mode

interface

Port List Interface Mode

if-vlan

VLAN Interface Mode

ipmc-profile

IPMC Profile Mode

snmps-host

SNMP Server Host Mode

stp-aggr

STP Aggregation Mode

dhcp-pool

DHCP Pool Configuration Mode

rfc2544-profile

RFC2544 Profile Mode

level

Set privilege level of command

<privilege>

Privilege level

<cmd>

Initial valid words and literals of the command to modify, in 128 char's

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst>

Syntax

```
ptp <clockinst> [ internal ]
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

internal

internal

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> announce

Syntax

```
ptp <clockinst> announce { [ interval <interval> ] [ timeout <timeout> ] }
```

Syntax Description

ptp

   ptp

<clockinst>

   <clockinst>

announce

   announce

interval

   interval

<interval>

   <interval>

timeout

   timeout

<timeout>

   <timeout>

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> clk sync <threshold> ap <ap>

Syntax

```
ptp <clockinst> clk sync <threshold> ap <ap>
```

Syntax Description

ptp

   ptp

<clockinst>

<clockinst>

clk

clk

sync

sync

<threshold>

<threshold>

ap

ap

<ap>

<ap>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> delay-asymmetry <delay_asymmetry>

Syntax

```
ptp <clockinst> delay-asymmetry <delay_asymmetry>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

delay-asymmetry

delay-asymmetry

<delay_asymmetry>

<delay_asymmetry>

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> delay-mechanism

Syntax

```
ptp <clockinst> delay-mechanism { e2e | p2p }
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

delay-mechanism

delay-mechanism

e2e

e2e

p2p

p2p

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> delay-req interval <interval>

Syntax

```
ptp <clockinst> delay-req interval <interval>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

delay-req

delay-req

interval

interval

<interval>

<interval>

Command Mode
Port List Interface Mode

Privilege level
15

----

ptp <clockinst> domain <domain>

Syntax
```
ptp <clockinst> domain <domain>
```

Syntax Description

ptp
    ptp

<clockinst>
    <clockinst>

domain
    domain

<domain>
    <domain>

Command Mode
Global Configuration Mode

Privilege level
15

----

ptp <clockinst> egress-latency <egress_latency>

Syntax
```
ptp <clockinst> egress-latency <egress_latency>
```

Syntax Description

ptp
    ptp

<clockinst>
    <clockinst>

egress-latency
    egress-latency

<egress_latency>

<egress_latency>

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> filter

Syntax

```
ptp <clockinst> filter [ delay <delay> ] [ period <period> ] [ dist <dist> ]
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

filter

filter

delay

delay

<delay>

<delay>

period

period

<period>

<period>

dist

dist

<dist>

<dist>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> ho

Syntax

```
ptp <clockinst> ho [ filter <ho_filter> ] [ adj-threshold <adj_threshold> ]
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

ho

ho

filter

filter

<ho_filter>

<ho_filter>

adj-threshold

adj-threshold

<adj_threshold>

<adj_threshold>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> ingress-latency <ingress_latency>

Syntax

```
ptp <clockinst> ingress-latency <ingress_latency>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

ingress-latency

ingress-latency

<ingress_latency>
> <ingress_latency>

Command Mode
Port List Interface Mode

Privilege level
15

----

ptp <clockinst> local-clock

Syntax
```
ptp <clockinst> local-clock { update | ratio <ratio> }
```

Syntax Description

ptp
> ptp

<clockinst>
> <clockinst>

local-clock
> local-clock

update
> update

ratio
> ratio

<ratio>
> <ratio>

Command Mode
User EXEC Mode

Privilege level
15

----

ptp <clockinst> log <debug_mode>

Syntax
```
ptp <clockinst> log <debug_mode>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

log

log

<debug_mode>

<debug_mode>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> mode

Syntax

```
ptp <clockinst> mode { boundary | e2etransparent | p2ptransparent | master |
slave } [ onestep | twostep ] [ ethernet | ip4multi | ip4unicast | oam | onepps
] [ oneway | twoway ] [ id <v_clock_id> ] [ vid <vid> [ <prio> ] [ tag ] ] [
mep <mep_id> ]
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

mode

mode

boundary

boundary

e2etransparent

e2etransparent

p2ptransparent

p2ptransparent

master

master

slave

> slave

onestep

> onestep

twostep

> twostep

ethernet

> ethernet

ip4multi

> ip4multi

ip4unicast

> ip4unicast

oam

> oam

onepps

> onepps

oneway

> oneway

twoway

> twoway

id

> id

<v_clock_id>

> <v_clock_id>

vid

> vid

<vid>

> <vid>

<prio>

> <prio>

tag

> tag

mep

> mep

<mep_id>

> <mep_id>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> priority1 <priority1>

Syntax

```
ptp <clockinst> priority1 <priority1>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

priority1

priority1

<priority1>

<priority1>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> priority2 <priority2>

Syntax

```
ptp <clockinst> priority2 <priority2>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

priority2

priority2

<priority2>

<priority2>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> servo ad <ad>

Syntax

```
ptp <clockinst> servo ad <ad>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

servo

servo

ad

ad

<ad>

<ad>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> servo ai <ai>

Syntax

```
ptp <clockinst> servo ai <ai>
```

Syntax Description

ptp

ptp

<clockinst>

<clockinst>

servo

    servo

ai

    ai

<ai>

    <ai>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> servo ap <ap>

Syntax

```
ptp <clockinst> servo ap <ap>
```

Syntax Description

ptp

    ptp

<clockinst>

    <clockinst>

servo

    servo

ap

    ap

<ap>

    <ap>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> servo displaystates

Syntax

```
ptp <clockinst> servo displaystates
```

Syntax Description

ptp
> ptp

<clockinst>
> <clockinst>

servo
> servo

displaystates
> displaystates

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> slave-cfg

Syntax

```
ptp <clockinst> slave-cfg [ stable-offset <stable_offset> ] [ offset-ok
<offset_ok> ] [ offset-fail <offset_fail> ]
```

Syntax Description

ptp
> ptp

<clockinst>
> <clockinst>

slave-cfg
> slave-cfg

stable-offset
> stable-offset

<stable_offset>
> <stable_offset>

offset-ok
> offset-ok

<offset_ok>
> <offset_ok>

offset-fail
> offset-fail

<offset_fail>

    <offset_fail>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> sync-interval <interval>

Syntax

```
ptp <clockinst> sync-interval <interval>
```

Syntax Description

ptp

    ptp

<clockinst>

    <clockinst>

sync-interval

    sync-interval

<interval>

    <interval>

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp <clockinst> time-property

Syntax

```
ptp <clockinst> time-property [ utc-offset <utc_offset> ] [ valid ] [ leap-59 |
leap-61 ] [ time-traceable ] [ freq-traceable ] [ ptptimescale ] [ time-source
<time_source> ]
```

Syntax Description

ptp

    ptp

<clockinst>

> <clockinst>

time-property

> time-property

utc-offset

> utc-offset

<utc_offset>

> <utc_offset>

valid

> valid

leap-59

> leap-59

leap-61

> leap-61

time-traceable

> time-traceable

freq-traceable

> freq-traceable

ptptimescale

> ptptimescale

time-source

> time-source

<time_source>

> <time_source>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> uni <idx>

Syntax

```
ptp <clockinst> uni <idx> [ duration <duration> ] <ip>
```

Syntax Description

ptp

> ptp

<clockinst>

> <clockinst>

uni

> uni

<idx>

> <idx>

duration

> duration

<duration>

<ip>

> <ip>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp <clockinst> wireless delay <base_delay>

Syntax

```
ptp <clockinst> wireless delay <base_delay> [ <incr_delay> ] interface
<port_type> [ <v_port_type_list> ]
```

Syntax Description

ptp

> ptp

<clockinst>

> <clockinst>

wireless

> wireless

delay

> delay

<base_delay>

> <base_delay>

<incr_delay>

> <incr_delay>

interface

> interface

<port_type>

    <port_type>

<v_port_type_list>

    <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

ptp <clockinst> wireless mode interface <port_type>

Syntax

```
ptp <clockinst> wireless mode interface <port_type> [ <v_port_type_list> ]
```

Syntax Description

ptp

    Enable wireless mode for an interface.

<clockinst>

    Clock instance [0-3]

wireless

    Enable wireless mode for one or more interfaces.

mode

    Enable wireless mode for an interface.

interface

    Interface

<port_type>

    Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

    List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

---**ptp \<clockinst\> wireless pre-notification interface**

\<port_type\>

Syntax

```
ptp <clockinst> wireless pre-notification interface <port_type> [
<v_port_type_list> ]
```

Syntax Description

ptp

ptp

\<clockinst\>

\<clockinst\>

wireless

wireless

pre-notification

pre-notification

interface

interface

\<port_type\>

\<port_type\>

\<v_port_type_list\>

\<v_port_type_list\>

Command Mode

User EXEC Mode

Privilege level

15

----

ptp ext

Syntax

```
ptp ext [ output | input ] [ ext <clockfreq> ] [ vcxo ]
```

Syntax Description

ptp

ptp

ext

ext

output

output

input

input

ext

ext

<clockfreq>

<clockfreq>

vcxo

vcxo

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp ms-pdv

Syntax

    ptp ms-pdv [one-hz] [min-phase <min_phase>] [apr <apr>]

Syntax Description

ptp

ptp

ms-pdv

ms-pdv

one-hz

one-hz

min-phase

min-phase

<min_phase>

<min_phase>

apr

apr

<apr>

<apr>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp pps-delay

Syntax

```
ptp pps-delay { { auto master-port interface <port_type> <v_port_type_id> } | {
man cable-delay <cable_delay> } }
```

Syntax Description

ptp

ptp

pps-delay

pps-delay

auto

auto

master-port

master-port

interface

interface

<port_type>

<port_type>

<v_port_type_id>

<v_port_type_id>

man

man

cable-delay

cable-delay

<cable_delay>

<cable_delay>

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp pps-sync

Syntax

```
ptp pps-sync { main-auto | main-man | sub } [ pps-phase <pps_phase> ] [ cable-
asy <cable_asy> ] [ ser-man | ser-auto ]
```

Syntax Description

ptp

ptp

pps-sync

pps-sync

main-auto

main-auto

main-man

main-man

sub

sub

pps-phase

pps-phase

<pps_phase>

<pps_phase>

cable-asy

cable-asy

<cable_asy>

<cable_asy>

ser-man

ser-man

ser-auto

ser-auto

Command Mode

Port List Interface Mode

Privilege level

15

----

ptp ref-clock

Syntax

```
ptp ref-clock { mhz125 | mhz156p25 | mhz250 }
```

Syntax Description

ptp

ptp

ref-clock

ref-clock

mhz125

mhz125

mhz156p25

mhz156p25

mhz250

mhz250

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp rs422

Syntax

```
ptp rs422 { main-auto | main-man | sub } [ pps-delay <pps_delay> ] { ser | {
pim interface <port_type> <v_port_type_id> } }
```

Syntax Description

ptp

ptp

rs422

rs422

main-auto

main-auto

main-man

main-man

sub

sub

pps-delay

pps-delay

<pps_delay>

<pps_delay>

ser

ser

pim

pim

interface

interface

<port_type>

<port_type>

<v_port_type_id>

<v_port_type_id>

Command Mode

Global Configuration Mode

Privilege level

15

----

ptp tc-internal

Syntax

```
ptp tc-internal [ mode <mode> ]
```

Syntax Description

ptp

ptp

tc-internal

tc-internal

mode

mode

<mode>

<mode>

Command Mode

Global Configuration Mode

Privilege level

15

----

pvlan <pvlan_list>

Syntax

    pvlan <pvlan_list>

Syntax Description

pvlan

Private VLAN

<pvlan_list>

list of PVLANs. Range is from 1 to number of ports.

Command Mode

Port List Interface Mode

Privilege level

13

----

pvlan isolation

Syntax

    pvlan isolation

Syntax Description

pvlan

Private VLAN

isolation

Port isolation

Command Mode

Port List Interface Mode

Privilege level

13

----

qos cos <cos>

Syntax

```
qos cos <cos>
```

Syntax Description

qos

Quality of Service

cos

Class of service configuration

<cos>

Specific class of service

Command Mode

Port List Interface Mode

Privilege level

15

----

qos dei <dei>

Syntax

```
qos dei <dei >
```

Syntax Description

qos

qos

dei

dei

<dei>

<dei>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos dpl <dpl>

Syntax

    qos dpl <dpl>

Syntax Description

qos

   qos

dpl

   dpl

<dpl>

   <dpl>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos dscp-classify

Syntax

    qos dscp-classify { zero | selected | any }

Syntax Description

qos

   qos

dscp-classify

   dscp-classify

zero

   zero

selected

   selected

any

   any

Command Mode

Port List Interface Mode

Privilege level

15

----

qos dscp-remark

Syntax

```
qos dscp-remark { rewrite | remap | remap-dp }
```

Syntax Description

qos

qos

dscp-remark

dscp-remark

rewrite

rewrite

remap

remap

remap-dp

remap-dp

Command Mode

Port List Interface Mode

Privilege level

15

----

qos dscp-translate

Syntax

```
qos dscp-translate
```

Syntax Description

qos

qos

dscp-translate

dscp-translate

Command Mode

Port List Interface Mode

Privilege level

15

----

qos map cos-dscp <cos> dpl <dpl> dscp

Syntax

```
qos map cos-dscp <cos> dpl <dpl > dscp { <dscp_num> | { be | af11 | af12 | af13
| af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 |
cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }
```

Syntax Description

qos

qos

map

map

cos-dscp

cos-dscp

<cos>

<cos>

dpl

dpl

<dpl>

<dpl>

dscp

dscp

<dscp_num>

<dscp_num>

be

be

af11

af11

af12

af12

af13

af13

af21

af21

af22

af22

af23

    af23

af31

    af31

af32

    af32

af33

    af33

af41

    af41

af42

    af42

af43

    af43

cs1

    cs1

cs2

    cs2

cs3

    cs3

cs4

    cs4

cs5

    cs5

cs6

    cs6

cs7

    cs7

ef

    ef

va

    va

Command Mode

Global Configuration Mode

Privilege level

15

----

qos map cos-tag cos <cos> dpl <dpl> pcp <pcp> dei <dei>

Syntax

```
qos map cos-tag cos <cos> dpl <dpl> pcp <pcp> dei <dei>
```

Syntax Description

qos

    qos

map

    map

cos-tag

    cos-tag

cos

    cos

<cos>

    <cos>

dpl

    dpl

<dpl>

    <dpl>

pcp

    pcp

<pcp>

    <pcp>

dei

    dei

<dei>

    <dei>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos map dscp-classify

Syntax

```
qos map dscp-classify { <dscp_num> | { be | af11 | af12 | af13 | af21 | af22 |
af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 |
cs6 | cs7 | ef | va } }
```

Syntax Description

qos

qos

map

map

dscp-classify

dscp-classify

<dscp_num>

<dscp_num>

be

be

af11

af11

af12

af12

af13

af13

af21

af21

af22

af22

af23

af23

af31

af31

af32

af32

af33

af33

af41

af41

af42

af42

af43

af43

cs1

cs1

cs2

cs2

cs3

cs3

cs4

cs4

cs5

cs5

cs6

cs6

cs7

cs7

ef

ef

va

va

Command Mode

Global Configuration Mode

Privilege level

15

----

qos map dscp-cos

Syntax

```
qos map dscp-cos { <dscp_num> | { be | af11 | af12 | af13 | af21 | af22 | af23
| af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 |
cs7 | ef | va } } cos <cos> dpl <dpl >
```

Syntax Description

qos

Quality of Service

map
Global QoS Map/Table

dscp-cos
Map for dscp to cos

<dscp_num>
Specific DSCP or range

be
Default PHB(DSCP 0) for best effort traffic

af11
Assured Forwarding PHB AF11(DSCP 10)

af12
Assured Forwarding PHB AF12(DSCP 12)

af13
Assured Forwarding PHB AF13(DSCP 14)

af21
Assured Forwarding PHB AF21(DSCP 18)

af22
Assured Forwarding PHB AF22(DSCP 20)

af23
Assured Forwarding PHB AF23(DSCP 22)

af31
Assured Forwarding PHB AF31(DSCP 26)

af32
Assured Forwarding PHB AF32(DSCP 28)

af33
Assured Forwarding PHB AF33(DSCP 30)

af41
Assured Forwarding PHB AF41(DSCP 34)

af42
Assured Forwarding PHB AF42(DSCP 36)

af43
Assured Forwarding PHB AF43(DSCP 38)

cs1
Class Selector PHB CS1 precedence 1(DSCP 8)

cs2
Class Selector PHB CS2 precedence 2(DSCP 16)

cs3
Class Selector PHB CS3 precedence 3(DSCP 24)

cs4

Class Selector PHB CS4 precedence 4(DSCP 32)

cs5

Class Selector PHB CS5 precedence 5(DSCP 40)

cs6

Class Selector PHB CS6 precedence 6(DSCP 48)

cs7

Class Selector PHB CS7 precedence 7(DSCP 56)

ef

Expedited Forwarding PHB(DSCP 46)

va

Voice Admit PHB(DSCP 44)

cos

Specify class of service

<cos>

Specific class of service

dpl

Specify drop precedence level

<dpl>

Specific drop precedence level

Command Mode

Global Configuration Mode

Privilege level

15

----

qos map dscp-egress-translation

Syntax

```
qos map dscp-egress-translation { <dscp_num> | { be | af11 | af12 | af13 | af21
| af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4
| cs5 | cs6 | cs7 | ef | va } } <dpl> to { <dscp_num_tr> | { be | af11 | af12 |
af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2
| cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }
```

Syntax Description

qos

qos

map

map

dscp-egress-translation

dscp-egress-translation

<dscp_num>

<dscp_num>

be

be

af11

af11

af12

af12

af13

af13

af21

af21

af22

af22

af23

af23

af31

af31

af32

af32

af33

af33

af41

af41

af42

af42

af43

af43

cs1

cs1

cs2

cs2

cs3

cs3

cs4

cs4

cs5
>   cs5

cs6
>   cs6

cs7
>   cs7

ef
>   ef

va
>   va

<dpl>
>   <dpl>

to
>   to

<dscp_num_tr>
>   <dscp_num_tr>

be
>   be

af11
>   af11

af12
>   af12

af13
>   af13

af21
>   af21

af22
>   af22

af23
>   af23

af31
>   af31

af32
>   af32

af33
>   af33

af41
>   af41

af42

> af42

af43

> af43

cs1

> cs1

cs2

> cs2

cs3

> cs3

cs4

> cs4

cs5

> cs5

cs6

> cs6

cs7

> cs7

ef

> ef

va

> va

Command Mode

Global Configuration Mode

Privilege level

15

----

qos map dscp-ingress-translation

Syntax

```
qos map dscp-ingress-translation { <dscp_num> | { be | af11 | af12 | af13 |
af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3
| cs4 | cs5 | cs6 | cs7 | ef | va } } to { <dscp_num_tr> | { be | af11 | af12 |
af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2
| cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } }
```

Syntax Description

qos

> qos

map
> map

dscp-ingress-translation
> dscp-ingress-translation

<dscp_num>
> <dscp_num>

be
> be

af11
> af11

af12
> af12

af13
> af13

af21
> af21

af22
> af22

af23
> af23

af31
> af31

af32
> af32

af33
> af33

af41
> af41

af42
> af42

af43
> af43

cs1
> cs1

cs2
> cs2

cs3
> cs3

cs4

> cs4

cs5

> cs5

cs6

> cs6

cs7

> cs7

ef

> ef

va

> va

to

> to

<dscp_num_tr>

> <dscp_num_tr>

be

> be

af11

> af11

af12

> af12

af13

> af13

af21

> af21

af22

> af22

af23

> af23

af31

> af31

af32

> af32

af33

> af33

af41

> af41

af42
> af42

af43
> af43

cs1
> cs1

cs2
> cs2

cs3
> cs3

cs4
> cs4

cs5
> cs5

cs6
> cs6

cs7
> cs7

ef
> ef

va
> va

Command Mode
Global Configuration Mode

Privilege level
15

----

qos map tag-cos pcp <pcp> dei <dei> cos <cos> dpl <dpl>

Syntax
```
qos map tag-cos pcp <pcp> dei <dei> cos <cos> dpl <dpl>
```

Syntax Description

qos
> qos

map
> map

tag-cos

> tag-cos

pcp

> pcp

<pcp>

> <pcp>

dei

> dei

<dei>

> <dei>

cos

> cos

<cos>

> <cos>

dpl

> dpl

<dpl>

> <dpl>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos pcp <pcp>

Syntax

> qos pcp <pcp>

Syntax Description

qos

> qos

pcp

> pcp

<pcp>

> <pcp>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos policer <rate>

Syntax

```
qos policer <rate> [ fps ] [ flowcontrol ]
```

Syntax Description

qos

qos

policer

policer

<rate>

<rate>

fps

fps

flowcontrol

flowcontrol

Command Mode

Port List Interface Mode

Privilege level

15

----

qos qce refresh

Syntax

```
qos qce refresh
```

Syntax Description

qos

qos

qce

qce

refresh

refresh

Command Mode

Global Configuration Mode

Privilege level

15

----

qos qce

Syntax

```
qos qce { [ addr { source | destination } ] [ key { double-tag | normal | ip-
addr | mac-ip-addr } ] }
```

Syntax Description

qos

    qos

qce

    qce

addr

    addr

source

    source

destination

    destination

key

    key

double-tag

    double-tag

normal

    normal

ip-addr

    ip-addr

mac-ip-addr

    mac-ip-addr

Command Mode

Port List Interface Mode

Privilege level

15

----

qos qce

Syntax

```
qos qce { [ update ] } <qce_id> [ { next <qce_id_next> } | last ] [ interface
<port_type> [ <port_list> ] ] [ smac { <smac> | <smac_24> | any } ] [ dmac {
<dmac> | unicast | multicast | broadcast | any } ] [ tag { [ type { untagged |
tagged | c-tagged | s-tagged | any } ] [ vid { <ot_vid> | any } ] [ pcp {
<ot_pcp> | any } ] [ dei { <ot_dei> | any } ] } ] [ inner-tag { [ type {
untagged | tagged | c-tagged | s-tagged | any } ] [ vid { <it_vid> | any } ] [
pcp { <it_pcp> | any } ] [ dei { <it_dei> | any } ] } ] [ frame-type { any | {
etype [ { <etype_type> | any } ] } } | { llc [ dsap { <llc_dsap> | any } ] [ ssap
{ <llc_ssap> | any } ] [ control { <llc_control> | any } ] } | { snap [ {
<snap_data> | any } ] } | { ipv4 [ proto { <pr4> | tcp | udp | any } ] [ sip {
<sip4> | any } ] [ dip { <dip4> | any } ] [ dscp { <dscp4> | { be | af11 | af12
| af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 |
cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } | any } ] [ fragment { yes | no |
any } ] [ sport { <sp4> | any } ] [ dport { <dp4> | any } ] } | { ipv6 [ proto
{ <pr6> | tcp | udp | any } ] [ sip { <sip6> | any } ] [ dip { <dip6> | any } ]
[ dscp { <dscp6> | { be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32
| af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va
} | any } ] [ sport { <sp6> | any } ] [ dport { <dp6> | any } ] } } ] [ action
{ [ cos { <action_cos> | default } ] [ dpl { <action_dpl> | default } ] [ pcp-
dei { <action_pcp> <action_dei> | default } ] [ dscp { <action_dscp_dscp> | {
be | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42
| af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | ef | va } | default } ] [
policy { <action_policy> | default } ] } ]
```

Syntax Description

qos

    qos

qce

    qce

update

    update

<qce_id>

    <qce_id>

next

    next

<qce_id_next>

    <qce_id_next>

last

    last

interface

    interface

\<port_type\>

> \<port_type\>

\<port_list\>

> \<port_list\>

smac

> smac

\<smac\>

> \<smac\>

\<smac_24\>

> \<smac_24\>

any

> any

dmac

> dmac

\<dmac\>

> \<dmac\>

unicast

> unicast

multicast

> multicast

broadcast

> broadcast

any

> any

tag

> tag

type

> type

untagged

> untagged

tagged

> tagged

c-tagged

> c-tagged

s-tagged

> s-tagged

any

> any

vid

   vid

<ot_vid>

   <ot_vid>

any

   any

pcp

   pcp

<ot_pcp>

   <ot_pcp>

any

   any

dei

   dei

<ot_dei>

   <ot_dei>

any

   any

inner-tag

   inner-tag

type

   type

untagged

   untagged

tagged

   tagged

c-tagged

   c-tagged

s-tagged

   s-tagged

any

   any

vid

   vid

<it_vid>

   <it_vid>

any

   any

pcp

> pcp

<it_pcp>

> <it_pcp>

any

> any

dei

> dei

<it_dei>

> <it_dei>

any

> any

frame-type

> frame-type

any

> any

etype

> etype

<etype_type>

> <etype_type>

any

> any

llc

> llc

dsap

> dsap

<llc_dsap>

> <llc_dsap>

any

> any

ssap

> ssap

<llc_ssap>

> <llc_ssap>

any

> any

control

> control

<llc_control>

    <llc_control>

any

    any

snap

    snap

<snap_data>

    <snap_data>

any

    any

ipv4

    ipv4

proto

    proto

<pr4>

    <pr4>

tcp

    tcp

udp

    udp

any

    any

sip

    sip

<sip4>

    <sip4>

any

    any

dip

    dip

<dip4>

    <dip4>

any

    any

dscp

    dscp

<dscp4>

    <dscp4>

be

    be

af11

    af11

af12

    af12

af13

    af13

af21

    af21

af22

    af22

af23

    af23

af31

    af31

af32

    af32

af33

    af33

af41

    af41

af42

    af42

af43

    af43

cs1

    cs1

cs2

    cs2

cs3

    cs3

cs4

    cs4

cs5

    cs5

cs6

    cs6

cs7

cs7

ef

ef

va

va

any

any

fragment

fragment

yes

yes

no

no

any

any

sport

sport

<sp4>

<sp4>

any

any

dport

dport

<dp4>

<dp4>

any

any

ipv6

ipv6

proto

proto

<pr6>

<pr6>

tcp

tcp

udp

udp

any

    any

sip

    sip

<sip6>

    <sip6>

any

    any

dip

    dip

<dip6>

    <dip6>

any

    any

dscp

    dscp

<dscp6>

    <dscp6>

be

    be

af11

    af11

af12

    af12

af13

    af13

af21

    af21

af22

    af22

af23

    af23

af31

    af31

af32

    af32

af33

    af33

af41
> af41

af42
> af42

af43
> af43

cs1
> cs1

cs2
> cs2

cs3
> cs3

cs4
> cs4

cs5
> cs5

cs6
> cs6

cs7
> cs7

ef
> ef

va
> va

any
> any

sport
> sport

<sp6>
> <sp6>

any
> any

dport
> dport

<dp6>
> <dp6>

any
> any

action

    action

cos

    cos

<action_cos>

    <action_cos>

default

    default

dpl

    dpl

<action_dpl>

    <action_dpl>

default

    default

pcp-dei

    pcp-dei

<action_pcp>

    <action_pcp>

<action_dei>

    <action_dei>

default

    default

dscp

    dscp

<action_dscp_dscp>

    <action_dscp_dscp>

be

    be

af11

    af11

af12

    af12

af13

    af13

af21

    af21

af22

    af22

af23
> af23

af31
> af31

af32
> af32

af33
> af33

af41
> af41

af42
> af42

af43
> af43

cs1
> cs1

cs2
> cs2

cs3
> cs3

cs4
> cs4

cs5
> cs5

cs6
> cs6

cs7
> cs7

ef
> ef

va
> va

default
> default

policy
> policy

<action_policy>
> <action_policy>

default

    default

Command Mode

Global Configuration Mode

Privilege level

15

----

qos queue-policer queue <queue> <rate>

Syntax

    `qos queue-policer queue <queue> <rate>`

Syntax Description

qos

    qos

queue-policer

    queue-policer

queue

    queue

<queue>

    <queue>

<rate>

    <rate>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos queue-shaper queue <queue> <rate>

Syntax

    `qos queue-shaper queue <queue> <rate> [ excess ]`

Syntax Description

qos

    qos

queue-shaper

queue-shaper

queue

queue

<queue>

<queue>

<rate>

<rate>

excess

excess

Command Mode

Port List Interface Mode

Privilege level

15

----

qos shaper <rate>

Syntax

```
qos shaper <rate>
```

Syntax Description

qos

qos

shaper

shaper

<rate>

<rate>

Command Mode

Port List Interface Mode

Privilege level

15

----

qos storm

Syntax

```
qos storm { unicast | broadcast | unknown } <rate> [ fps ]
```

Syntax Description

qos

qos

storm

storm

unicast

unicast

broadcast

broadcast

unknown

unknown

<rate>

<rate>

fps

fps

Command Mode

Port List Interface Mode

Privilege level

15

----

qos storm

Syntax

```
qos storm { unicast | multicast | broadcast } { { <rate> [ kfps ] } | { 1024
kfps } }
```

Syntax Description

qos

qos

storm

storm

unicast

unicast

multicast

multicast

broadcast

broadcast

<rate>

> <rate>

kfps

> kfps

1024

> 1024

kfps

> kfps

Command Mode

Global Configuration Mode

Privilege level

15

----

qos tag-remark

Syntax

```
qos tag-remark { pcp <pcp> dei  <dei > | mapped }
```

Syntax Description

qos

> qos

tag-remark

> tag-remark

pcp

> pcp

<pcp>

> <pcp>

dei

> dei

<dei>

> <dei>

mapped

> mapped

Command Mode

Port List Interface Mode

Privilege level

15

---

qos trust dscp

Syntax

```
qos trust dscp
```

Syntax Description

qos

qos

trust

trust

dscp

dscp

Command Mode

Port List Interface Mode

Privilege level

15

---

qos trust tag

Syntax

```
qos trust tag
```

Syntax Description

qos

qos

trust

trust

tag

tag

Command Mode

Port List Interface Mode

Privilege level

15

----

qos wred queue <queue> min-fl <min_fl> max <max>

Syntax

```
qos wred queue <queue> min-fl <min_fl> max <max> [ fill-level ]
```

Syntax Description

qos

    qos

wred

    wred

queue

    queue

<queue>

    <queue>

min-fl

    min-fl

<min_fl>

    <min_fl>

max

    max

<max>

    <max>

fill-level

    fill-level

Command Mode

Global Configuration Mode

Privilege level

15

--qos wred queue
<queue> min-th <min_th> mdp-1 <mdp_1>

----

mdp-2 <mdp_2> mdp-3 <mdp_3>

Syntax

```
qos wred queue <queue> min-th <min_th> mdp-1 <mdp_1> mdp-2 <mdp_2> mdp-3
<mdp_3>
```

Syntax Description

qos
   qos

wred
   wred

queue
   queue

<queue>
   <queue>

min-th
   min-th

<min_th>
   <min_th>

mdp-1
   mdp-1

<mdp_1>
   <mdp_1>

mdp-2
   mdp-2

<mdp_2>
   <mdp_2>

mdp-3
   mdp-3

<mdp_3>
   <mdp_3>

Command Mode

Global Configuration Mode

Privilege level

15

----

qos wrr <w0> <w1> <w2> <w3> <w4> <w5>

Syntax

```
qos wrr <w0> <w1> <w2> <w3> <w4> <w5>
```

Syntax Description

qos

qos

wrr

wrr

<w0>

<w0>

<w1>

<w1>

<w2>

<w2>

<w3>

<w3>

<w4>

<w4>

<w5>

<w5>

Command Mode

Port List Interface Mode

Privilege level

15

----

radius-server attribute 32 <id>

Syntax

```
radius-server attribute 32 <id>
```

Syntax Description

radius-server
> radius-server

attribute
> attribute

32
> 32

<id>
> <id>

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server attribute 4 <ipv4>

Syntax

```
radius-server attribute 4 <ipv4>
```

Syntax Description

radius-server
> radius-server

attribute
> attribute

4
> 4

<ipv4>
> <ipv4>

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server attribute 95 <ipv6>

Syntax

```
radius-server attribute 95 <ipv6>
```

Syntax Description

radius-server

radius-server

attribute

attribute

95

95

<ipv6>

<ipv6>

Command Mode

Global Configuration Mode

Privilege level

15

radius-server deadtime <minutes>

Syntax

```
radius-server deadtime <minutes>
```

Syntax Description

radius-server

Configure RADIUS

deadtime

Time to stop using a RADIUS server that doesn't respond

<minutes>

Time in minutes

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server host <host_name>

Syntax

```
radius-server host <host_name> [ auth-port <auth_port> ] [ acct-port
<acct_port> ] [ timeout <seconds> ] [ retransmit <retries> ] [ key <key> ]
```

Syntax Description

radius-server

Configure RADIUS

host

Specify a RADIUS server

<host_name>

Hostname or IP address

auth-port

UDP port for RADIUS authentication server

<auth_port>

UDP port number

acct-port

UDP port for RADIUS accounting server

<acct_port>

UDP port number

timeout

Time to wait for this RADIUS server to reply (overrides default)

<seconds>

Wait time in seconds

retransmit

Specify the number of retries to active server (overrides default)

<retries>

Number of retries for a transaction

key

Server specific key (overrides default)

<key>

The shared key

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server key <key>

Syntax

```
radius-server key <key>
```

Syntax Description

radius-server

Configure RADIUS

key

Set RADIUS encryption key

<key>

The shared key

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server retransmit <retries>

Syntax

```
radius-server retransmit <retries>
```

Syntax Description

radius-server

Configure RADIUS

retransmit

Specify the number of retries to active server

<retries>

Number of retries for a transaction

Command Mode

Global Configuration Mode

Privilege level

15

----

radius-server timeout <seconds>

Syntax

```
radius-server timeout <seconds>
```

Syntax Description

radius-server

Configure RADIUS

timeout

Time to wait for a RADIUS server to reply

<seconds>

Wait time in seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

range <entry_name>

Syntax

```
range <entry_name> { permit | deny } [ log ] [ next <next_entry> ]
```

Syntax Description

range

A range of IPv4/IPv6 multicast addresses for the profile

<entry_name>

Range entry name in 16 char's

permit

Permit matching addresses

deny

Deny matching addresses

log

Log when matching

next

Specify next entry used in profile; Default: Add entry last

<next_entry>

Range entry name in 16 char's

Command Mode
IPMC Profile Mode

Privilege level
15

----

reload

Syntax
```
reload { { { cold } [ sid <usid> ] } | { defaults [ keep-ip ] } }
```

Syntax Description

reload
Reload system.

cold
Reload cold.

warm
Reload warm (CPU restart only).

sid
Specific stack switch to reload.

<usid>
Stack switch ID.

defaults
Reload defaults without rebooting.

keep-ip
Attempt to keep VLAN1 IP setup.

Command Mode
User EXEC Mode

Privilege level
15

----

rfc2544 delete <report_name>

Syntax
```
rfc2544 delete <report_name>
```

Syntax Description

rfc2544

  RFC2544 perfomance tests

delete

  Permanently delete an existing report

<report_name>

  Name of existing report to delete

Command Mode

User EXEC Mode

Privilege level

15

----

rfc2544 profile <profile_name>

Syntax

```
rfc2544 profile <profile_name>
```

Syntax Description

rfc2544

  RFC2544 performance tests

profile

  RFC2544 profile configuration

<profile_name>

  Profile name up to 32 characters long

Command Mode

Global Configuration Mode

Privilege level

15

---rfc2544 rename profile <old_profile_name>

<new_profile_name>

Syntax

```
rfc2544 rename profile <old_profile_name> <new_profile_name>
```

Syntax Description

rfc2544

RFC2544 perfomance tests

rename

Rename an existing profile

profile

profile

<old_profile_name>

<old_profile_name>

<new_profile_name>

<new_profile_name>

Command Mode

Global Configuration Mode

Privilege level

15

----

rfc2544 save <report_name> <tftp_url>

Syntax

```
rfc2544 save <report_name> <tftp_url>
```

Syntax Description

rfc2544

RFC2544 perfomance tests

save

Save a report to a file on a TFTP server

<report_name>

Name of existing report to save

<tftp_url>

TFTP server URL on the form tftp://server[:port]/path-to-file

Command Mode

User EXEC Mode

Privilege level

15

----

rfc2544 start <report_name> profile <profile_name>

Syntax

rfc2544 start <report_name> profile <profile_name> [desc <report_dscr>]

Syntax Description

rfc2544

RFC2544 perfomance tests

start

Start execution of a pre-configured profile

<report_name>

Unique name of resulting report

profile

Profile to execute

<profile_name>

Name of existing profile to execute

desc

Optionally provide a description of the test

<report_dscr>

Description that will appear in the report

Command Mode

User EXEC Mode

Privilege level

15

----

rfc2544 stop <report_name>

Syntax

```
rfc2544 stop <report_name>
```

Syntax Description

rfc2544

RFC2544 perfomance tests

stop

Stop execution of an ongoing test

<report_name>

Report name to stop execution of

Command Mode

User EXEC Mode

Privilege level

15

----

rmon alarm <id> <oid_str> <interval>

Syntax

```
rmon alarm <id> <oid_str> <interval> { absolute | delta } rising-threshold
<rising_threshold> [ <rising_event_id> ] falling-threshold <falling_threshold>
[ <falling_event_id> ] { [ rising | falling | both ] }
```

Syntax Description

rmon

Remote Monitoring

alarm

Configure an RMON alarm

<id>

Alarm entry ID

<oid_str>

MIB object to monitor

<interval>

Sample interval

absolute

Test each sample directly

delta

Test delta between samples

rising-threshold

Configure the rising threshold

<rising_threshold>

rising threshold value

<rising_event_id>

Event to fire on rising threshold crossing

falling-threshold

Configure the falling threshold

<falling_threshold>

falling threshold value

<falling_event_id>

Event to fire on falling threshold crossing

rising

Trigger alarm when the first value is larger than the rising threshold

falling

Trigger alarm when the first value is less than the falling threshold

both

Trigger alarm when the first value is larger than the rising threshold or less than the falling threshold
(default)

Command Mode

Global Configuration Mode

Privilege level

15

----

rmon alarm <id>

Syntax

```
rmon alarm <id> { ifInOctets | ifInUcastPkts | ifInNUcastPkts | ifInDiscards |
ifInErrors | ifInUnknownProtos | ifOutOctets | ifOutUcastPkts | ifOutNUcastPkts
| ifOutDiscards | ifOutErrors } <ifIndex> <interval> { absolute | delta }
rising-threshold <rising_threshold> [ <rising_event_id> ] falling-threshold
<falling_threshold> [ <falling_event_id> ] { [ rising | falling | both ] }
```

Syntax Description

rmon

Remote Monitoring

alarm

Configure an RMON alarm

<id>

Alarm entry ID

ifInOctets

The total number of octets received on the interface, including framing characters

ifInUcastPkts

The number of uni-cast packets delivered to a higher-layer protocol

ifInNUcastPkts

The number of broad-cast and multi-cast packets delivered to a higher-layer protocol

ifInDiscards

The number of inbound packets that are discarded even the packets are normal

ifInErrors

The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol

ifInUnknownProtos

The number of the inbound packets that were discarded because of the unknown or un-support protocol

ifOutOctets

The number of octets transmitted out of the interface , including framing characters

ifOutUcastPkts

The number of uni-cast packets that request to transmit

ifOutNUcastPkts

The number of broad-cast and multi-cast packets that request to transmit

ifOutDiscards

The number of outbound packets that are discarded event the packets is normal

ifOutErrors

The The number of outbound packets that could not be transmitted because of errors

<ifIndex>

ifIndex

<interval>

Sample interval

absolute

Test each sample directly

delta

Test delta between samples

rising-threshold

Configure the rising threshold

<rising_threshold>

rising threshold value

<rising_event_id>

Event to fire on rising threshold crossing

falling-threshold

Configure the falling threshold

<falling_threshold>

falling threshold value

<falling_event_id>

Event to fire on falling threshold crossing

rising

Trigger alarm when the first value is larger than the rising threshold

falling

Trigger alarm when the first value is less than the falling threshold

both

Trigger alarm when the first value is larger than the rising threshold or less than the falling threshold (default)

Command Mode

Global Configuration Mode

Privilege level

15

----

rmon collection history <id>

Syntax

```
rmon collection history <id> [ buckets <buckets> ] [ interval <interval> ]
```

Syntax Description

rmon

Configure Remote Monitoring on an interface

collection

Configure Remote Monitoring Collection on an interface

history

Configure history

<id>

History entry ID

buckets

Requested buckets of intervals. Default is 50 buckets

<buckets>

Requested buckets of intervals

interval

Interval to sample data for each bucket. Default is 1800 seconds

<interval>

Interval in seconds to sample data for each bucket

Command Mode

Port List Interface Mode

Privilege level

15

----

rmon collection stats <id>

Syntax

```
rmon collection stats <id>
```

Syntax Description

rmon

Configure Remote Monitoring on an interface

collection

Configure Remote Monitoring Collection on an interface

stats

Configure statistics

<id>

Statistics entry ID

Command Mode

Port List Interface Mode

Privilege level

15

----

rmon event <id>

Syntax

```
rmon event <id> [ log ] [ trap <community> ] { [ description <description> ] }
```

Syntax Description

rmon

Remote Monitoring

event

Configure an RMON event

<id>

Event entry ID

log

Generate RMON log when the event fires

trap

Generate SNMP trap when the event fires

<community>

SNMP community string

description

Specify a description of the event

<description>

Event description

Command Mode

Global Configuration Mode

Privilege level

15

----

send

Syntax

```
send { * | <session_list> | console 0 | vty <vty_list> } <message>
```

Syntax Description

send

Send a message to other tty lines

*

All tty lines

<session_list>

Send a message to multiple lines

console

Primary terminal line

0

Send a message to a specific line

vty

Virtual terminal

<vty_list>

Send a message to multiple lines

<message>

Message to be sent to lines, in 128 char's

Command Mode

User EXEC Mode

Privilege level

15

----

sequence-check

Syntax

```
sequence-check
```

Syntax Description

sequence-check

Enable (no-form disables) sequence number checking of looped TST PDUs

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

sflow

Syntax

```
sflow [ <sampler_idx_list> ]
```

Syntax Description

sflow

Enables/disables flow sampling on this port.

<sampler_idx_list>

Sampler instance

Command Mode

Port List Interface Mode

Privilege level

15

----

sflow agent-ip

Syntax

```
sflow agent-ip { ipv4 <v_ipv4_addr> | ipv6 <v_ipv6_addr> }
```

Syntax Description

sflow

Statistics flow.

agent-ip

The agent IP address used as agent-address in UDP datagrams. Defaults to IPv4 loopback address.

ipv4

ipv4

<v_ipv4_addr>

<v_ipv4_addr>

ipv6

ipv6

<v_ipv6_addr>

<v_ipv6_addr>

Command Mode

Global Configuration Mode

Privilege level

15

----

sflow collector-address

Syntax

```
sflow collector-address [ receiver <rcvr_idx_list> ] [ <host_name> ]
```

Syntax Description

sflow

Statistics flow.

collector-address

Collector address

receiver

runtime, see sflow_icli_functions.c

<rcvr_idx_list>

runtime, see sflow_icli_functions.c

<host_name>

runtime, see sflow_icli_functions.c

Command Mode
Global Configuration Mode

Privilege level
15

----

sflow collector-port

Syntax

```
sflow collector-port [ receiver <rcvr_idx_list> ] <collector_port>
```

Syntax Description

sflow

#SFLOW_HELP

collector-port

Collector UDP port

receiver

runtime, see sflow_icli_functions.c

<rcvr_idx_list>

runtime, see sflow_icli_functions.c

<collector_port>

Port number

Command Mode
Global Configuration Mode

Privilege level
15

----

sflow counter-poll-interval

Syntax

```
sflow counter-poll-interval [ sampler <sampler_idx_list> ] [ <poll_interval> ]
```

Syntax Description

sflow
> Statistics flow.

counter-poll-interval
> The interval - in seconds - between counter poller samples.

sampler
> sampler

<sampler_idx_list>
> Sampler instance

<poll_interval>
> seconds

Command Mode

Port List Interface Mode

Privilege level

15

----

sflow max-datagram-size

Syntax

```
sflow max-datagram-size [ receiver <rcvr_idx_list> ] <datagram_size>
```

Syntax Description

sflow
> Statistics flow.

max-datagram-size
> Maximum datagram size.

receiver
> receiver

<rcvr_idx_list>
> receiver list

<datagram_size>
> bytes

Command Mode
Global Configuration Mode

Privilege level
15

----

sflow max-sampling-size

Syntax

```
sflow max-sampling-size [ sampler <sampler_idx_list> ] [ <max_sampling_size> ]
```

Syntax Description

sflow

Statistics flow.

max-sampling-size

Specifies the maximum number of bytes to transmit per flow sample.

sampler

sampler

<sampler_idx_list>

Sampler instance

<max_sampling_size>

bytes

Command Mode
Port List Interface Mode

Privilege level
15

----

sflow sampling-rate

Syntax

```
sflow sampling-rate [ sampler <sampler_idx_list> ] [ <sampling_rate> ]
```

Syntax Description

sflow

Statistics flow.

sampling-rate

Specifies the statistical sampling rate. The sample rate is specified as N to sample 1/Nth of the packets n the monitored flows. There are no restrictions on the value, but the switch will adjust it to the closest possible sampling rate.

sampler

sampler

<sampler_idx_list>

Sampler instance

<sampling_rate>

Sampling rate

Command Mode

Port List Interface Mode

Privilege level

15

----

sflow timeout

Syntax

```
sflow timeout [ receiver <rcvr_idx_list> ] <timeout>
```

Syntax Description

sflow

Statistics flow.

timeout

Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.

receiver

runtime, see sflow_icli_functions.c

<rcvr_idx_list>

runtime, see sflow_icli_functions.c

<timeout>

Number of seconds.

Command Mode

Global Configuration Mode

Privilege level

15

----

show aaa

Syntax

show aaa

Syntax Description

show
show

aaa
aaa

Command Mode
User EXEC Mode

Privilege level
15

----

show access management

Syntax

show access management [statistics | <access_id_list>]

Syntax Description

show
Show running system information

access
Access management

management
Access management configuration

statistics
Statistics data

<access_id_list>
ID of access management entry

Command Mode
User EXEC Mode

Privilege level
15

----

show access-list

Syntax

```
show access-list [ interface [ <port_type> [ <v_port_type_list> ] ] ] [ rate-
limiter [ <rate_limiter_list> ] ] [ ace statistics [ <ace_list> ] ]
```

Syntax Description

show

Show running system information

access-list

Access list

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

rate-limiter

Rate limiter

<rate_limiter_list>

Rate limiter ID

ace

Access list entry

statistics

Traffic statistics

<ace_list>

ACE ID

Command Mode

User EXEC Mode

Privilege level

15

----

show access-list ace-status

Syntax

```
show access-list ace-status [ static ] [ link-oam ] [ loop-protect ] [ dhcp ] [
ptp ] [ upnp ] [ arp-inspection ] [ evc ] [ mep ] [ ipmc ] [ ip-source-guard ]
```

```
[ ip-mgmt ] [ conflicts ] [ switch <switch_list> ]
```

Syntax Description

show

Show running system information

access-list

Access list

ace-status

The local ACEs status

static

The ACEs that are configured by users manually

link-oam

The ACEs that are configured by Link OAM module

loop-protect

The ACEs that are configured by Loop Protect module

dhcp

The ACEs that are configured by DHCP module

ptp

The ACEs that are configured by PTP module

upnp

The ACEs that are configured by UPnP module

arp-inspection

The ACEs that are configured by ARP Inspection module

evc

The ACEs that are configured by EVC module

mep

The ACEs that are configured by MEP module

ipmc

The ACEs that are configured by IPMC module

ip-source-guard

The ACEs that are configured by IP Source Guard module

ip-mgmt

The ACEs that are configured by IP Mamagement module

conflicts

The ACEs that did not get applied to the hardware due to hardware limitations

switch

Switch

<switch_list>

List of switch ID, ex, 1,3-5,6

Command Mode

User EXEC Mode

Privilege level

15

----

show aggregation

Syntax

show aggregation [mode]

Syntax Description

show

Aggregation configuration

aggregation

Aggregation port configuration

mode

Traffic distribution mode

Command Mode

User EXEC Mode

Privilege level

15

----

show clock

Syntax

show clock

Syntax Description

show

Show running system information

clock

Configure time-of-day clock

Command Mode

User EXEC Mode

Privilege level

0

----

show clock detail

Syntax

```
show clock detail
```

Syntax Description

show

Show running system information

clock

Configure time-of-day clock

detail

Display detailed information

Command Mode

User EXEC Mode

Privilege level

0

----

show dot1x statistics

Syntax

```
show dot1x statistics { eapol | radius | all } [ interface <port_type> [
<v_port_type_list> ] ]
```

Syntax Description

show

show

dot1x

dot1x

statistics

statistics

eapol

eapol

radius

radius

all

all

interface

interface

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show dot1x status

Syntax

show dot1x status [interface <port_type> [<v_port_type_list>]] [brief]

Syntax Description

show

show

dot1x

dot1x

status

status

interface

interface

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

brief

brief

Command Mode

User EXEC Mode

Privilege level

0

----

show eps

Syntax

```
show eps [ <inst> ] [ detail ]
```

Syntax Description

show
> show

eps
> eps

<inst>
> <inst>

detail
> detail

Command Mode

User EXEC Mode

Privilege level

15

----

show erps

Syntax

```
show erps [ <groups> ] [ detail | statistics ]
```

Syntax Description

show
> show

erps
> erps

<groups>
> <groups>

detail
> detail

statistics
> statistics

Command Mode

User EXEC Mode

Privilege level

15

----

show evc statistics

Syntax

```
show evc statistics { [ <evc_id> | all ] } [ ece [ <ece_id> ] ] [ interface
<port_type> [ <port_list> ] ] [ cos <cos> ] [ green | yellow | red | discard ]
[ frames | bytes ]
```

Syntax Description

show

　　show

evc

　　evc

statistics

　　statistics

<evc_id>

　　<evc_id>

all

　　all

ece

　　ece

<ece_id>

　　<ece_id>

interface

　　interface

<port_type>

　　<port_type>

<port_list>

　　<port_list>

cos

　　cos

<cos>

　　<cos>

green

    green

yellow

    yellow

red

    red

discard

    discard

frames

    frames

bytes

    bytes

Command Mode

User EXEC Mode

Privilege level

15

----

show evc

Syntax

```
show evc { [ <evc_id> | all ] } [ ece [ <ece_id> ] ]
```

Syntax Description

show

    show

evc

    evc

<evc_id>

    <evc_id>

all

    all

ece

    ece

<ece_id>

    <ece_id>

Command Mode

User EXEC Mode

Privilege level

15

----

show green-ethernet

Syntax

```
show green-ethernet [ interface <port_type> [ <port_list> ] ]
```

Syntax Description

show

Display green ethernet status for the switch.

green-ethernet

Green ethernet (Power reduction)

interface

Shows green ethernet status for a specific port or ports.

<port_type>

<port_type>

<port_list>

<port_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show green-ethernet eee

Syntax

```
show green-ethernet eee [ interface <port_type> [ <port_list> ] ]
```

Syntax Description

show

Display green ethernet status for the switch.

green-ethernet

Green ethernet (Power reduction)

eee

Shows green ethernet EEE status for a specific port or ports.

interface

interface

<port_type>

<port_type>

<port_list>

<port_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show green-ethernet energy-detect

Syntax

show green-ethernet energy-detect [interface <port_type> [<port_list>]]

Syntax Description

show

Display green ethernet status for the switch.

green-ethernet

Green ethernet (Power reduction)

energy-detect

Shows green ethernet energy-detect status for a specific port or ports.

interface

interface

<port_type>

<port_type>

<port_list>

<port_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show green-ethernet short-reach

Syntax

```
show green-ethernet short-reach [ interface <port_type> [ <port_list> ] ]
```

Syntax Description

show

Display green ethernet status for the switch.

green-ethernet

Green ethernet (Power reduction)

short-reach

Shows green ethernet short-reach status for a specific port or ports.

interface

interface

<port_type>

<port_type>

<port_list>

<port_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show history

Syntax

```
show history
```

Syntax Description

show

Show running system information

history

Display the session command history

Command Mode

User EXEC Mode

Privilege level

0

----

show interface <port_type>

Syntax

    show interface <port_type> [<in_port_list>] switchport [access | trunk |
    hybrid]

Syntax Description

show

Show running system information

interface

Interface status

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

switchport

Show interface switchport information

access

Show access ports status

trunk

Show trunk ports status

hybrid

Show hybrid ports status

Command Mode

User EXEC Mode

Privilege level

0

----

show interface <port_type>

Syntax

    show interface <port_type> [<v_port_type_list>] capabilities

Syntax Description

show

    Display interface capabilities.

interface

    Interface.

<port_type>

    Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

    List of Port ID, ex, 1/1,3-5;2/2-4,6

capabilities

    Display capabilities.

Command Mode

User EXEC Mode

Privilege level

0

----

show interface <port_type>

Syntax

```
show interface <port_type> [ <v_port_type_list> ] statistics [ { packets |
bytes | errors | discards | filtered | { priority [ <priority_v_0_to_7> ] } } ]
[ { up | down } ]
```

Syntax Description

show

    Display statistics counters.

interface

    Interface.

<port_type>

    Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

    List of Port ID, ex, 1/1,3-5;2/2-4,6

statistics

    Display statistics counters.

packets

    Show packet statistics.

bytes

    Show byte statistics.

errors

Show error statistics.

discards

Show discard statistics.

filtered

Show filtered statistics.

priority

Show priority statistics.

<priority_v_0_to_7>

Priority of the queue(s) to show statistics for.

up

Show ports which are up

down

Show ports which are down

Command Mode

User EXEC Mode

Privilege level

0

----

show interface <port_type>

Syntax

show interface <port_type> [<v_port_type_list>] status

Syntax Description

show

Display interface status.

interface

Interface.

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

status

Display status.

Command Mode

User EXEC Mode

Privilege level

0

----

show interface <port_type>

Syntax

    show interface <port_type> [<v_port_type_list>] veriphy

Syntax Description

show

    Show

interface

    Interface

<port_type>

    Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

    List of Port ID, ex, 1/1,3-5;2/2-4,6

veriphy

    Run cable diagnostics and show result.

Command Mode

User EXEC Mode

Privilege level

0

----

show interface vlan

Syntax

    show interface vlan [<vlist>]

Syntax Description

show

    Show running system information

interface

    Interface status and configuration

vlan

    VLAN status

<vlist>
VLAN list

Command Mode
User EXEC Mode

Privilege level
15

----

show ip arp

Syntax
```
show ip arp
```

Syntax Description

show
show

ip
ip

arp
arp

Command Mode
User EXEC Mode

Privilege level
0

----

show ip arp inspection

Syntax
```
show ip arp inspection [ interface <port_type> [ <in_port_type_list> ] | vlan
<in_vlan_list> ]
```

Syntax Description

show
Show running system information

ip
Internet Protocol

arp
Address Resolution Protocol

inspection

ARP inspection

interface

arp inspection entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

vlan

VLAN configuration

<in_vlan_list>

Select a VLAN id to configure

Command Mode

User EXEC Mode

Privilege level

0

----

show ip arp inspection entry

Syntax

```
show ip arp inspection entry [ dhcp-snooping | static ] [ interface <port_type>
[ <in_port_type_list> ] ]
```

Syntax Description

show

Show running system information

ip

Internet Protocol

arp

Address Resolution Protocol

inspection

ARP inspection

entry

arp inspection entries

dhcp-snooping

learn from dhcp snooping

static

setting from static entries

interface

arp inspection entry interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

13

----

show ip dhcp detailed statistics

Syntax

```
show ip dhcp detailed statistics { server | client | snooping | relay | normal-
forward | combined } [ interface <port_type> [ <in_port_list> ] ]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

detailed

DHCP server

statistics

Traffic statistics

server

DHCP server

client

DHCP client

snooping

DHCP snooping

relay

DHCP relay

normal-forward

DHCP normal L2 or L3 forward

combined

Show all DHCP related statistics

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp excluded-address

Syntax

```
show ip dhcp excluded-address
```

Syntax Description

show

Show running system information

ip

IP information

dhcp

Show items in the DHCP database

excluded-address

Excluded IP database

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp pool

Syntax

```
show ip dhcp pool [ <pool_name> ]
```

Syntax Description

show

Show running system information

ip

IP information

dhcp

Show items in the DHCP database

pool

DHCP pools information

<pool_name>

Pool name in 32 characters

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp relay

Syntax

```
show ip dhcp relay [ statistics ]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

relay

DHCP relay agent configuration

statistics

Traffic statistics

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp server

Syntax

```
show ip dhcp server
```

Syntax Description

show

Show running system information

ip

IP information

dhcp

Show items in the DHCP database

server

DHCP server information

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp server binding <ip>

Syntax

```
show ip dhcp server binding <ip>
```

Syntax Description

show

Show running system information

ip

IP information

dhcp

Show items in the DHCP database

server

DHCP server information

binding

DHCP address bindings

<ip>

IP address in dotted-decimal notation

Command Mode
User EXEC Mode

Privilege level
0

----

show ip dhcp server binding

Syntax

```
show ip dhcp server binding [ state { allocated | committed | expired } ] [
type { automatic | manual  | expired } ]
```

Syntax Description

show
　　Show running system information

ip
　　IP information

dhcp
　　Show items in the DHCP database

server
　　DHCP server information

binding
　　DHCP address bindings

state
　　State of binding

allocated
　　Allocated state

committed
　　Committed state

expired
　　Expired state

type
　　Type of binding

automatic
　　Automatic binding with infinite lease time

manual
　　Manual binding for a specific host

expired
　　Expired binding that is aged out

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp server declined-ip

Syntax

```
show ip dhcp server declined-ip
```

Syntax Description

show

Show running system information

ip

IP information

dhcp

Show items in the DHCP database

server

DHCP server information

declined-ip

Declined IP address

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp server declined-ip <declined_ip>

Syntax

```
show ip dhcp server declined-ip <declined_ip>
```

Syntax Description

show

Show running system information

ip

IP information

dhcp
> Show items in the DHCP database

server
> DHCP server information

declined-ip
> Declined IP address

<declined_ip>
> IP address

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp server statistics

Syntax

```
show ip dhcp server statistics
```

Syntax Description

show
> Show running system information

ip
> IP information

dhcp
> Show items in the DHCP database

server
> DHCP server information

statistics
> DHCP server statistics

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp snooping

Syntax

```
show ip dhcp snooping [ interface <port_type> [ <in_port_list> ] ]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp snooping

Syntax

```
show ip dhcp snooping [ statistics ] [ interface <port_type> [ <in_port_list> ]
]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

statistics

Traffic statistics

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

show ip dhcp snooping table

Syntax

```
show ip dhcp snooping table
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

dhcp

Dynamic Host Configuration Protocol

snooping

DHCP snooping

table

show ip dhcp snooping table

Command Mode

User EXEC Mode

Privilege level

15

----

show ip http server secure status

Syntax

```
show ip http server secure status
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

http

Hypertext Transfer Protocol

server

HTTP web server

secure

Secure

status

Status

Command Mode

User EXEC Mode

Privilege level

15

----

show ip igmp snooping

Syntax

```
show ip igmp snooping [ vlan <v_vlan_list> ] [ group-database [ interface
<port_type> [ <v_port_type_list> ] ] [ sfm-information ] ] [ detail ]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

igmp

Internet Group Management Protocol

snooping
> Snooping IGMP

vlan
> Search by VLAN

<v_vlan_list>
> VLAN identifier(s): VID

group-database
> Multicast group database from IGMP

interface
> Search by port

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

sfm-information
> Including source filter multicast information from IGMP

detail
> Detail running information/statistics of IGMP snooping

Command Mode
User EXEC Mode

Privilege level
0

----

show ip igmp snooping mrouter

Syntax
```
show ip igmp snooping mrouter [ detail ]
```

Syntax Description

show
> Show running system information

ip
> Interface Internet Protocol config commands

igmp
> Internet Group Management Protocol

snooping
> Snooping IGMP

mrouter

    Multicast router port status in IGMP

detail

    Detail running information/statistics of IGMP snooping

Command Mode

User EXEC Mode

Privilege level

0

----

show ip interface brief

Syntax

```
show ip interface brief
```

Syntax Description

show

    show

ip

    ip

interface

    interface

brief

    brief

Command Mode

User EXEC Mode

Privilege level

0

----

show ip name-server

Syntax

```
show ip name-server
```

Syntax Description

show

    Show running system information

ip

Interface Internet Protocol config commands

name-server

Domain Name System

Command Mode

User EXEC Mode

Privilege level

0

----

show ip route

Syntax

```
show ip route
```

Syntax Description

show

show

ip

ip

route

route

Command Mode

User EXEC Mode

Privilege level

0

----

show ip source binding

Syntax

```
show ip source binding [ dhcp-snooping | static ] [ interface <port_type> [
<in_port_type_list> ] ]
```

Syntax Description

show

Show running system information

ip

Internet Protocol

source

source command

binding

ip source binding

dhcp-snooping

learn from dhcp snooping

static

setting from static entries

interface

ip source binding interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

13

----

show ip ssh

Syntax

```
show ip ssh
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

ssh

Secure Shell

Command Mode

User EXEC Mode

Privilege level

15

----

show ip statistics

Syntax

```
show ip statistics [ system ] [ interface vlan <v_vlan_list> ] [ icmp ] [ icmp-
msg <type> ]
```

Syntax Description

show

Show running system information

ip

Interface Internet Protocol config commands

statistics

Traffic statistics

system

IPv4 system traffic

interface

Select an interface to configure

vlan

IPv4 interface traffic

<v_vlan_list>

VLAN identifier(s): VID

icmp

IPv4 ICMP traffic

icmp-msg

IPv4 ICMP traffic for designated message type

<type>

ICMP message type ranges from 0 to 255

Command Mode

User EXEC Mode

Privilege level

0

----

show ip verify source

Syntax

```
show ip verify source [ interface <port_type> [ <in_port_type_list> ] ]
```

Syntax Description

show

Show running system information

ip

Internet Protocol

verify

verify command

source

verify source

interface

ip verify source interface config

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<in_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

show ipmc profile

Syntax

```
show ipmc profile [ <profile_name> ] [ detail ]
```

Syntax Description

show

show

ipmc

ipmc

profile

profile

<profile_name>

<profile_name>

detail

detail

Command Mode

User EXEC Mode

Privilege level

15

----

show ipmc range

Syntax

```
show ipmc range [ <entry_name> ]
```

Syntax Description

show

   show

ipmc

   ipmc

range

   range

<entry_name>

   <entry_name>

Command Mode

User EXEC Mode

Privilege level

15

----

show ipv6 interface

Syntax

```
show ipv6 interface [ vlan <v_vlan_list> { brief | statistics } ]
```

Syntax Description

show

   Show running system information

ipv6

   IPv6 configuration commands

interface

   Select an interface to configure

vlan

VLAN of IPv6 interface

<v_vlan_list>

IPv6 interface VLAN list

brief

Brief summary of IPv6 status and configuration

statistics

Traffic statistics

Command Mode

User EXEC Mode

Privilege level

0

----

show ipv6 mld snooping

Syntax

```
show ipv6 mld snooping [ vlan <v_vlan_list> ] [ group-database [ interface
<port_type> [ <v_port_type_list> ] ] [ sfm-information ] ] [ detail ]
```

Syntax Description

show

Show running system information

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

vlan

Search by VLAN

<v_vlan_list>

VLAN identifier(s): VID

group-database

Multicast group database from MLD

interface

Search by port

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

sfm-information

Including source filter multicast information from MLD

detail

Detail running information/statistics of MLD snooping

Command Mode

User EXEC Mode

Privilege level

0

----

show ipv6 mld snooping mrouter

Syntax

```
show ipv6 mld snooping mrouter [ detail ]
```

Syntax Description

show

Show running system information

ipv6

IPv6 configuration commands

mld

Multicasat Listener Discovery

snooping

Snooping MLD

mrouter

Multicast router port status in MLD

detail

Detail running information/statistics of MLD snooping

Command Mode

User EXEC Mode

Privilege level

0

----

show ipv6 neighbor

Syntax

```
show ipv6 neighbor [ interface vlan <v_vlan_list> ]
```

Syntax Description

show

Show running system information

ipv6

IPv6 configuration commands

neighbor

IPv6 neighbors

interface

Select an interface to configure

vlan

VLAN of IPv6 interface

<v_vlan_list>

IPv6 interface VLAN list

Command Mode

User EXEC Mode

Privilege level

0

----

show ipv6 route

Syntax

```
show ipv6 route [ interface vlan <v_vlan_list> ]
```

Syntax Description

show

Show running system information

ipv6

IPv6 configuration commands

route

IPv6 routes

interface

Select an interface to configure

vlan
> VLAN of IPv6 interface

<v_vlan_list>
> IPv6 interface VLAN list

Command Mode

User EXEC Mode

Privilege level

0

----

show ipv6 statistics

Syntax

```
show ipv6 statistics [ system ] [ interface vlan <v_vlan_list> ] [ icmp ] [
icmp-msg <type> ]
```

Syntax Description

show
> Show running system information

ipv6
> IPv6 configuration commands

statistics
> Traffic statistics

system
> IPv6 system traffic

interface
> Select an interface to configure

vlan
> IPv6 interface traffic

<v_vlan_list>
> VLAN identifier(s): VID

icmp
> IPv6 ICMP traffic

icmp-msg
> IPv6 ICMP traffic for designated message type

<type>
> ICMP message type ranges from 0 to 255

Command Mode

User EXEC Mode

Privilege level

0

----

show lacp

Syntax

    show lacp { internal | statistics | system-id | neighbour }

Syntax Description

show

   LACP configuration/status

lacp

   LACP configuration/status

internal

   Internal LACP configuration

statistics

   Internal LACP statistics

system-id

   LACP system id

neighbour

   Neighbour LACP status

Command Mode

User EXEC Mode

Privilege level

15

----

show line

Syntax

    show line [alive]

Syntax Description

show

   Show running system information

line

TTY line information

alive

Display information about alive lines

Command Mode

User EXEC Mode

Privilege level

0

----

show link-oam

Syntax

```
show link-oam { [ status ] [ link-monitor ] [ statistics ] } [ interface
<port_type> [ <plist> ] ]
```

Syntax Description

show

Show running system information

link-oam

Link OAM configuration

status

Display local and remote node status parameters

link-monitor

Display link-monitor status parameters

statistics

Display statistics parameters

interface

Interface status and configuration

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<plist>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

show lldp med media-vlan-policy

Syntax

```
show lldp med media-vlan-policy [ <v_0_to_31> ]
```

Syntax Description

show

    show

lldp

    lldp

med

    med

media-vlan-policy

    media-vlan-policy

<v_0_to_31>

    <v_0_to_31>

Command Mode

User EXEC Mode

Privilege level

0

----

show lldp med remote-device

Syntax

```
show lldp med remote-device [ interface <port_type> [ <port_list> ] ]
```

Syntax Description

show

    show

lldp

    lldp

med

    med

remote-device

    remote-device

interface

    interface

<port_type>

    <port_type>

<port_list>

    <port_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show lldp neighbors

Syntax

    show lldp neighbors [interface <port_type> [<v_port_type_list>]]

Syntax Description

show

    show

lldp

    lldp

neighbors

    neighbors

interface

    interface

<port_type>

    <port_type>

<v_port_type_list>

    <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show lldp statistics

Syntax

    show lldp statistics [interface <port_type> [<v_port_type_list>]]

Syntax Description

show

>show

lldp

>lldp

statistics

>statistics

interface

>interface

<port_type>

><port_type>

<v_port_type_list>

><v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show logging <log_id>

Syntax

```
show logging <log_id> [ switch <switch_list> ]
```

Syntax Description

show

>Show running system information

logging

>Syslog

<log_id>

>Logging ID

switch

>Switch

<switch_list>

>List of switch ID, ex, 1,3-5,6

Command Mode

User EXEC Mode

Privilege level

15

----

show logging

Syntax

```
show logging [ info ] [ warning ] [ error ] [ switch <switch_list> ]
```

Syntax Description

show

Show running system information

logging

Syslog

info

Information

warning

Warning

error

Error

switch

Switch

<switch_list>

List of switch ID, ex, 1,3-5,6

Command Mode

User EXEC Mode

Privilege level

15

----

show loop-protect

Syntax

```
show loop-protect [ interface <port_type> [ <plist> ] ]
```

Syntax Description

show

Show running system information

loop-protect
>   Loop protection configuration

interface
>   Interface status and configuration

<port_type>
>   Port type in Fast, Giga or Tengiga ethernet

<plist>
>   List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode
User EXEC Mode

Privilege level
13

----

show mac address-table

Syntax

```
show mac address-table [ conf | static | aging-time | { { learning | count } [
interface <port_type> [ <v_port_type_list> ] ] } | { address <v_mac_addr> [
vlan <v_vlan_id> ] } | vlan <v_vlan_id_1> | interface <port_type> [
<v_port_type_list_1> ] ]
```

Syntax Description

show
>   Show running system information

mac
>   Mac Address Table information

address-table
>   Mac Address Table

conf
>   User added static mac addresses

static
>   All static mac addresses

aging-time
>   Aging time

learning
>   Learn/disable/secure state

count
>   Total number of mac addresses

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

address

MAC address lookup

<v_mac_addr>

48 bit MAC address: xx:xx:xx:xx:xx:xx

vlan

VLAN lookup

<v_vlan_id>

VLAN IDs 1-4095

vlan

Addresses in this VLAN

<v_vlan_id_1>

VLAN IDs 1-4095

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list_1>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

0

----

show mep

Syntax

```
show mep [ <inst> ] [ peer | cc | lm | dm | lt | lb | tst | aps | client | ais
| lck ] [ detail ]
```

Syntax Description

show

show

mep

mep

<inst>

<inst>

peer

peer

cc

cc

lm

lm

dm

dm

lt

lt

lb

lb

tst

tst

aps

aps

client

client

ais

ais

lck

lck

detail

detail

Command Mode

User EXEC Mode

Privilege level

15

----

show mpls evc <evc_idx>

Syntax

```
show mpls evc <evc_idx>
```

Syntax Description

show

show

mpls

mpls

evc

evc

<evc_idx>

<evc_idx>

Command Mode

User EXEC Mode

Privilege level

15

----

show mpls l2

Syntax

```
show mpls l2 [ <l2_idx> ]
```

Syntax Description

show

show

mpls

mpls

l2

l2

<l2_idx>

<l2_idx>

Command Mode

User EXEC Mode

Privilege level

15

----

show mpls qos-to-tc map <map>

Syntax

```
show mpls qos-to-tc map <map> [ dp0 ] [ dp1 ]
```

Syntax Description

show
>   show

mpls
>   mpls

qos-to-tc
>   qos-to-tc

map
>   map

<map>
>   <map>

dp0
>   dp0

dp1
>   dp1

Command Mode

User EXEC Mode

Privilege level

15

show mpls tc-to-qos map <map>

Syntax

```
show mpls tc-to-qos map <map>
```

Syntax Description

show
>   show

mpls
>   mpls

tc-to-qos
>   tc-to-qos

map

    map

<map>

    <map>

Command Mode

User EXEC Mode

Privilege level

15

----

show mpls xc

Syntax

```
show mpls xc [ <xc_idx> ]
```

Syntax Description

show

    show

mpls

    mpls

xc

    xc

<xc_idx>

    <xc_idx>

Command Mode

User EXEC Mode

Privilege level

15

----

show mvr

Syntax

```
show mvr [ vlan <v_vlan_list> | name <mvr_name> ] [ group-database [ interface
<port_type> [ <v_port_type_list> ] ] [ sfm-information ] ] [ detail ]
```

Syntax Description

show

    Show running system information

mvr

Multicast VLAN Registration configuration

vlan

Search by VLAN

<v_vlan_list>

MVR multicast VLAN list

name

Search by MVR name

<mvr_name>

MVR multicast VLAN name

group-database

Multicast group database from MVR

interface

Search by port

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

sfm-information

Including source filter multicast information from MVR

detail

Detail information/statistics of MVR group database

Command Mode

User EXEC Mode

Privilege level

0

----

show ntp status

Syntax

```
show ntp status
```

Syntax Description

show

Show running system information

ntp

Configure NTP

status

> status

Command Mode

User EXEC Mode

Privilege level

13

----

show platform phy

Syntax

show platform phy [interface <port_type> [<v_port_type_list>]]

Syntax Description

show

> show

platform

> platform

phy

> phy

interface

> interface

<port_type>

> <port_type>

<v_port_type_list>

> <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show platform phy failover

Syntax

show platform phy failover

Syntax Description

show

show

platform

platform

phy

phy

failover

failover

Command Mode

User EXEC Mode

Privilege level

15

----

show platform phy id

Syntax

```
show platform phy id [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

show

show

platform

platform

phy

phy

id

id

interface

interface

<port_type>

<port_type>

<v_port_type_list>

<v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show platform phy instance

Syntax

```
show platform phy instance
```

Syntax Description

show

show

platform

platform

phy

phy

instance

instance

Command Mode

User EXEC Mode

Privilege level

15

----

show platform phy status

Syntax

```
show platform phy status [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

show

show

platform

platform

phy

phy

status

status

interface

> interface

<port_type>

> <port_type>

<v_port_type_list>

> <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

15

----

show port-security port

Syntax

```
show port-security port [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

show

> show

port-security

> port-security

port

> port

interface

> interface

<port_type>

> <port_type>

<v_port_type_list>

> <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show port-security switch

Syntax

```
show port-security switch [ interface <port_type> [ <v_port_type_list> ] ]
```

Syntax Description

show
> show

port-security
> port-security

switch
> switch

interface
> interface

<port_type>
> <port_type>

<v_port_type_list>
> <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show privilege

Syntax

```
show privilege
```

Syntax Description

show
> Show running system information

privilege
> Display command privilege

Command Mode

User EXEC Mode

Privilege level

0

----

show ptp <clockinst> local-clock

Syntax

```
show ptp <clockinst> local-clock
```

Syntax Description

show

    show

ptp

    ptp

<clockinst>

    <clockinst>

local-clock

    local-clock

Command Mode

User EXEC Mode

Privilege level

15

----

show ptp <clockinst> slave-cfg

Syntax

```
show ptp <clockinst> slave-cfg
```

Syntax Description

show

    show

ptp

    ptp

<clockinst>

    <clockinst>

slave-cfg

    slave-cfg

Command Mode

User EXEC Mode

Privilege level

15

----

show ptp <clockinst> slave-table-unicast

Syntax

```
show ptp <clockinst> slave-table-unicast
```

Syntax Description

show

>   show

ptp

>   ptp

<clockinst>

>   <clockinst>

slave-table-unicast

>   slave-table-unicast

Command Mode

User EXEC Mode

Privilege level

15

----

show ptp <clockinst>

Syntax

```
show ptp <clockinst> { default | current | parent | time-property | filter |
servo | clk | ho | uni | master-table-unicast | slave | { { port-state | port-
ds | wireless | foreign-master-record } [ interface <port_type> [
<v_port_type_list> ] ] } }
```

Syntax Description

show

>   show

ptp

>   ptp

<clockinst>

> <clockinst>

default

> default

current

> current

parent

> parent

time-property

> time-property

filter

> filter

servo

> servo

clk

> clk

ho

> ho

uni

> uni

master-table-unicast

> master-table-unicast

slave

> slave

port-state

> port-state

port-ds

> port-ds

wireless

> wireless

foreign-master-record

> foreign-master-record

interface

> interface

<port_type>

> <port_type>

<v_port_type_list>

> <v_port_type_list>

Command Mode
User EXEC Mode

Privilege level
0

----

show ptp ext

Syntax
```
show ptp ext
```

Syntax Description

show
> show

ptp
> ptp

ext
> ext

Command Mode
User EXEC Mode

Privilege level
0

----

show ptp rs422

Syntax
```
show ptp rs422
```

Syntax Description

show
> show

ptp
> ptp

rs422
> rs422

Command Mode
User EXEC Mode

Privilege level

0

----

show pvlan

Syntax

    show pvlan [<pvlan_list>]

Syntax Description

show

   Show PVLAN configuration

pvlan

   PVLAN configuration

<pvlan_list>

   PVLAN ID to show configuration for

Command Mode

User EXEC Mode

Privilege level

13

----

show pvlan isolation

Syntax

    show pvlan isolation [interface <port_type> [<plist>]]

Syntax Description

show

   Show PVLAN configuration

pvlan

   PVLAN configuration

isolation

   show isolation configuration

interface

   List of port type and port ID, ex, Fast 1/1 Gigabit 2/3-5 Gigabit 3/2-4 Tengigabit 4/6

<port_type>

   <port_type>

<plist>

    <plist>

Command Mode

User EXEC Mode

Privilege level

13

----

show qos

Syntax

```
show qos [ { interface [ <port_type> [ <port> ] ] } | wred | { maps [ dscp-cos
] [ dscp-ingress-translation ] [ dscp-classify ] [ cos-dscp ] [ dscp-egress-
translation ] } | storm | { qce [ <qce> ] } ]
```

Syntax Description

show

    show

qos

    qos

interface

    interface

<port_type>

    <port_type>

<port>

    <port>

wred

    wred

maps

    maps

dscp-cos

    dscp-cos

dscp-ingress-translation

    dscp-ingress-translation

dscp-classify

    dscp-classify

cos-dscp

    cos-dscp

dscp-egress-translation

dscp-egress-translation

storm

storm

qce

qce

<qce>

<qce>

Command Mode
User EXEC Mode

Privilege level
15

----

show radius-server

Syntax
```
show radius-server [ statistics ]
```

Syntax Description

show

show

radius-server

radius-server

statistics

statistics

Command Mode
User EXEC Mode

Privilege level
15

----

show rfc2544 profile

Syntax
```
show rfc2544 profile [ <profile_name> ]
```

Syntax Description

show
>   show

rfc2544
>   rfc2544

profile
>   profile

<profile_name>
>   <profile_name>

Command Mode

User EXEC Mode

Privilege level

15

----

show rfc2544 report

Syntax

```
show rfc2544 report [ <report_name> ]
```

Syntax Description

show
>   show

rfc2544
>   rfc2544

report
>   report

<report_name>
>   <report_name>

Command Mode

User EXEC Mode

Privilege level

15

----

show rmon alarm

Syntax

```
show rmon alarm [ <id_list> ]
```

Syntax Description

show
> Show running system information

rmon
> RMON statistics

alarm
> Display the RMON alarm table

<id_list>
> Alarm entry list

Command Mode
User EXEC Mode

Privilege level
15

----

show rmon event

Syntax

```
show rmon event [ <id_list> ]
```

Syntax Description

show
> Show running system information

rmon
> RMON statistics

event
> Display the RMON event table

<id_list>
> Event entry list

Command Mode
User EXEC Mode

Privilege level

15

----

show rmon history

Syntax

```
show rmon history [ <id_list> ]
```

Syntax Description

show

Show running system information

rmon

RMON statistics

history

Display the RMON history table

<id_list>

History entry list

Command Mode

User EXEC Mode

Privilege level

15

----

show rmon statistics

Syntax

```
show rmon statistics [ <id_list> ]
```

Syntax Description

show

Show running system information

rmon

RMON statistics

statistics

Display the RMON statistics table

<id_list>

Statistics entry list

Command Mode

User EXEC Mode

Privilege level

15

----

show running-config

Syntax

```
show running-config [ all-defaults ]
```

Syntax Description

show
   show

running-config
   running-config

all-defaults
   all-defaults

Command Mode

User EXEC Mode

Privilege level

15

----

show running-config feature <feature_name>

Syntax

```
show running-config feature <feature_name> [ all-defaults ]
```

Syntax Description

show
   show

running-config
   running-config

feature
   feature

<feature_name>
   <feature_name>

all-defaults

    all-defaults

Command Mode

User EXEC Mode

Privilege level

15

----

show running-config interface <port_type>

Syntax

```
show running-config interface <port_type> [ <list> ] [ all-defaults ]
```

Syntax Description

show

    show

running-config

    running-config

interface

    interface

<port_type>

    <port_type>

<list>

    <list>

all-defaults

    all-defaults

Command Mode

User EXEC Mode

Privilege level

15

----

show running-config interface vlan <list>

Syntax

```
show running-config interface vlan <list> [ all-defaults ]
```

Syntax Description

show

>show

running-config

>running-config

interface

>interface

vlan

>vlan

<list>

><list>

all-defaults

>all-defaults

Command Mode

User EXEC Mode

Privilege level

15

----

show running-config line

Syntax

```
show running-config line { console | vty } <list> [ all-defaults ]
```

Syntax Description

show

>show

running-config

>running-config

line

>line

console

>console

vty

>vty

<list>

><list>

all-defaults
>   all-defaults

Command Mode
User EXEC Mode

Privilege level
15

----

show running-config vlan <list>

Syntax
```
show running-config vlan <list> [ all-defaults ]
```

Syntax Description

show
>   show

running-config
>   running-config

vlan
>   vlan

<list>
>   <list>

all-defaults
>   all-defaults

Command Mode
User EXEC Mode

Privilege level
15

----

show sflow

Syntax
```
show sflow
```

Syntax Description

show
>   show

sflow

> sflow

Command Mode

User EXEC Mode

Privilege level

0

----

show sflow statistics

Syntax

```
show sflow statistics { receiver [ <rcvr_idx_list> ] | samplers [ interface [
<samplers_list> ] <port_type> [ <v_port_type_list> ] ] }
```

Syntax Description

show

> show

sflow

> sflow

statistics

> statistics

receiver

> receiver

<rcvr_idx_list>

> <rcvr_idx_list>

samplers

> samplers

interface

> interface

<samplers_list>

> <samplers_list>

<port_type>

> <port_type>

<v_port_type_list>

> <v_port_type_list>

Command Mode

User EXEC Mode

Privilege level

0

----

show snmp

Syntax

show snmp

Syntax Description

show

show

snmp

snmp

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp access

Syntax

show snmp access [<group_name> { v1 | v2c | v3 | any } { auth | noauth | priv }]

Syntax Description

show

Show running system information

snmp

Display SNMP configurations

access

access configuration

<group_name>

group name

v1

v1 security model

v2c

v2c security model

v3

   v3 security model

any

   any security model

auth

   authNoPriv Security Level

noauth

   noAuthNoPriv Security Level

priv

   authPriv Security Level

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp community v3

Syntax

```
show snmp community v3 [ <community> ]
```

Syntax Description

show

   show

snmp

   snmp

community

   community

v3

   v3

<community>

   <community>

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp host

Syntax

```
show snmp host [ <conf_name> ] [ system ] [ switch ] [ interface ] [ aaa ]
```

Syntax Description

show
> Show running system information

snmp
> Set SNMP server's configurations

host
> Set SNMP host's configurations

<conf_name>
> Name of the host configuration

system
> System event group

switch
> Switch event group

interface
> Interface event group

aaa
> AAA event group

Command Mode
User EXEC Mode

Privilege level
15

----

show snmp mib context

Syntax

```
show snmp mib context
```

Syntax Description

show
> Show running system information

snmp
> SNMP(Simple Network Management Protocol)

mib

MIB(Management Information Base)

context

MIB context

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp mib ifmib ifIndex

Syntax

```
show snmp mib ifmib ifIndex
```

Syntax Description

show

Show running system information

snmp

SNMP(Simple Network Management Protocol)

mib

MIB(Management Information Base)

ifmib

IF-MIB

ifIndex

The IfIndex that is defined in IF-MIB

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp mib redefine

Syntax

```
show snmp mib redefine
```

Syntax Description

show

Show running system information

snmp

SNMP(Simple Network Management Protocol)

mib

MIB(Management Information Base)

redefine

The different definitions from the standard MIBs

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp security-to-group

Syntax

```
show snmp security-to-group [ { v1 | v2c | v3 } <security_name> ]
```

Syntax Description

show

Show running system information

snmp

Display SNMP configurations

security-to-group

security-to-group configuration

v1

v1 security model

v2c

v2c security model

v3

v3 security model

<security_name>

security group name

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp user

Syntax

```
show snmp user [ <username> <engineID> ]
```

Syntax Description

show

show

snmp

snmp

user

user

<username>

<username>

<engineID>

<engineID>

Command Mode

User EXEC Mode

Privilege level

15

----

show snmp view

Syntax

```
show snmp view [ <view_name> <oid_subtree> ]
```

Syntax Description

show

Show running system information

snmp

Display SNMP configurations

view

MIB view configuration

<view_name>
> MIB view name

<oid_subtree>
> MIB view OID

Command Mode
User EXEC Mode

Privilege level
15

----

show spanning-tree

Syntax
```
show spanning-tree [ summary | active | { interface <port_type> [
<v_port_type_list> ] } | { detailed [ interface <port_type> [
<v_port_type_list_1> ] ] } | { mst [ configuration | { <instance> [ interface
<port_type> [ <v_port_type_list_2> ] ] } ] } ]
```

Syntax Description

show
> Show running system information

spanning-tree
> STP Bridge

summary
> STP summary

active
> STP active interfaces

interface
> Choose port

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list>
> List of Port ID, ex, 1/1,3-5;2/2-4,6

detailed
> STP statistics

interface
> List of port type and port ID, ex, Fast 1/1 Gigabit 2/3-5 Gigabit 3/2-4 Tengigabit 4/6

<port_type>
> Port type in Fast, Giga or Tengiga ethernet

<v_port_type_list_1>

List of Port ID, ex, 1/1,3-5;2/2-4,6

mst

Configuration

configuration

STP bridge instance no (0-7, CIST=0, MST2=1...)

<instance>

Choose port

interface

List of port type and port ID, ex, Fast 1/1 Gigabit 2/3-5 Gigabit 3/2-4 Tengigabit 4/6

<port_type>

<port_type>

<v_port_type_list_2>

<v_port_type_list_2>

Command Mode

User EXEC Mode

Privilege level

15

----

show switchport forbidden

Syntax

```
show switchport forbidden [ { vlan <vid> } | { name <name> } ]
```

Syntax Description

show

show

switchport

switchport

forbidden

forbidden

vlan

vlan

<vid>

<vid>

name

name

<name>
   <name>

Command Mode
User EXEC Mode

Privilege level
0

----

show tacacs-server

Syntax
      show tacacs-server

Syntax Description

show
   show

tacacs-server
   tacacs-server

Command Mode
User EXEC Mode

Privilege level
15

----

show terminal

Syntax
      show terminal

Syntax Description

show
   Show running system information

terminal
   Display terminal configuration parameters

Command Mode
User EXEC Mode

Privilege level
0

----

show thermal-protect

Syntax

```
show thermal-protect [ interface <port_type> [ <port_list> ] ]
```

Syntax Description

show
>   show

thermal-protect
>   thermal-protect

interface
>   interface

<port_type>
>   <port_type>

<port_list>
>   <port_list>

Command Mode
User EXEC Mode

Privilege level
15

----

show upnp

Syntax

```
show upnp
```

Syntax Description

show
>   Show running system information

upnp
>   Display UPnP configurations

Command Mode
User EXEC Mode

Privilege level
15

----

show users

Syntax

```
show users [ myself ]
```

Syntax Description

show

Show running system information

users

Display information about terminal lines

myself

Display information about mine

Command Mode

User EXEC Mode

Privilege level

0

----

show version

Syntax

```
show version
```

Syntax Description

show

Display firmware information.

version

Display firmware inforamtion.

Command Mode

User EXEC Mode

Privilege level

0

show version

Syntax

```
show version
```

Syntax Description

show
> Show running system information

version
> System hardware and software status

Command Mode

User EXEC Mode

Privilege level

0

show vlan

Syntax

```
show vlan [ id <vlan_list> | name <name> | brief ]
```

Syntax Description

show
> Show running system information

vlan
> VLAN status

id
> VLAN status by VLAN id

<vlan_list>
> VLAN IDs 1-4095

name
> VLAN status by VLAN name

<name>
> A VLAN name

brief
> VLAN summary information

Command Mode

User EXEC Mode

Privilege level

13

----

show vlan ip-subnet

Syntax

```
show vlan ip-subnet [ id <subnet_id> ]
```

Syntax Description

show

You can verify your settings by entering the show vlan protocol privileged EXEC command.

vlan

VLAN status

ip-subnet

Show VLAN ip-subnet entries.

id

Show a specific ip-subnet entry.

<subnet_id>

The specific ip-subnet to show.

Command Mode

User EXEC Mode

Privilege level

13

----

show vlan mac

Syntax

```
show vlan mac [ address <mac_addr> ]
```

Syntax Description

show

You can verify your settings by entering the show vlan protocol privileged EXEC command.

vlan

VLAN status

mac

Show VLAN MAC entries.

address

Show a specific MAC entry.

<mac_addr>

The specific MAC entry to show.

Command Mode

User EXEC Mode

Privilege level

13

----

show vlan protocol

Syntax

```
show vlan protocol [ eth2 { <etype> | arp | ip | ipx | at } ] [ snap { <oui> |
rfc-1042 | snap-8021h } <pid> ] [ llc <dsap> <ssap> ]
```

Syntax Description

show

Show running system information

vlan

VLAN status

protocol

Protocol-based VLAN status

eth2

Ethernet protocol based VLAN status

<etype>

Ether Type(Range: 0x600 - 0xFFFF)

arp

Ether Type is ARP

ip

Ether Type is IP

ipx

Ether Type is IPX

at

Ether Type is AppleTalk

snap

SNAP-based VLAN status

<oui>

SNAP OUI (Range 0x000000 - 0XFFFFFF)

rfc-1042

SNAP OUI is rfc-1042

snap-8021h

SNAP OUI is 8021h

<pid>

   PID (Range: 0x0 - 0xFFFF)

llc

   LLC-based VLAN status

<dsap>

   DSAP (Range: 0x00 - 0xFF)

<ssap>

   SSAP (Range: 0x00 - 0xFF)

Command Mode

User EXEC Mode

Privilege level

13

----

show vlan status

Syntax

```
show vlan status [ interface <port_type> [ <plist> ] ] [ combined | admin | nas
| mvr | voice-vlan | mstp | erps | vcl | evc | gvrp | all | conflicts ]
```

Syntax Description

show

   Show running system information

vlan

   VLAN status

status

   Show the VLANs configured for each interface.

interface

   Show the VLANs configured for a specific interface(s).

<port_type>

   Port type in Fast, Giga or Tengiga ethernet

<plist>

   List of Port ID, ex, 1/1,3-5;2/2-4,6

combined

   Show the VLANs configured by a combination.

admin

   Show the VLANs configured by administrator.

nas

   Show the VLANs configured by NAS.

mvr

Show the VLANs configured by MVR.

voice-vlan

Show the VLANs configured by Voice VLAN.

mstp

Show the VLANs configured by MSTP.

erps

Show the VLANs configured by ERPS.

vcl

Show the VLANs configured by VCL.

evc

Show the VLANs configured by EVC.

gvrp

Show the VLANs configured by GVRP.

all

Show all VLANs configured.

conflicts

Show VLANs configurations that has conflicts.

Command Mode

User EXEC Mode

Privilege level

13

----

show voice vlan

Syntax

```
show voice vlan [ oui <oui> | interface <port_type> [ <port_list> ] ]
```

Syntax Description

show

Show running system information

voice

Voice appliance attributes

vlan

Vlan for voice traffic

oui

OUI configuration

<oui>

OUI value

interface

Select an interface to configure

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<port_list>

List of Port ID, ex, 1/1,3-5;2/2-4,6

Command Mode

User EXEC Mode

Privilege level

15

----

show web privilege group

Syntax

```
show web privilege group [ <group_name> ] level
```

Syntax Description

show

show

web

web

privilege

privilege

group

group

<group_name>

<group_name>

level

level

Command Mode

User EXEC Mode

Privilege level

0

----

shutdown

Syntax

```
shutdown
```

Syntax Description

shutdown
   Shutdown of the interface.

Command Mode
Port List Interface Mode

Privilege level
15

----

shutdown

Syntax

```
shutdown
```

Syntax Description

shutdown
   Disable the trap configuration

Command Mode
SNMP Server Host Mode

Privilege level
15

----

snmp-server

Syntax

```
snmp-server
```

Syntax Description

snmp-server
   Enable SNMP server

Command Mode

Global Configuration Mode

Privilege level

13

----

snmp-server access <group_name> model

Syntax

```
snmp-server access <group_name> model { v1 | v2c | v3 | any } level { auth |
noauth | priv } [ read <view_name> ] [ write <write_name> ]
```

Syntax Description

snmp-server
> SNMP(Simple Network Management Protocol)

access
> access configuration

<group_name>
> group name

model
> security model

v1
> v1 security model

v2c
> v2c security model

v3
> v3 security model

any
> any security model

level
> security level

auth
> authNoPriv Security Level

noauth
> noAuthNoPriv Security Level

priv
> authPriv Security Level

read
> specify a read view for the group

<view_name>

    read view name

write

    specify a write view for the group

<write_name>

    write view name

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server community v2c <comm>

Syntax

```
snmp-server community v2c <comm> [ ro | rw ]
```

Syntax Description

snmp-server

    SNMP(Simple Network Management Protocol)

community

    Set the SNMP community

v2c

    SNMPv2c

<comm>

    Community word

ro

    Read only

rw

    Read write

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server community v3 <v3_comm>

Syntax

```
snmp-server community v3 <v3_comm> [ <v_ipv4_addr> <v_ipv4_netmask> ]
```

Syntax Description

snmp-server

   SNMP(Simple Network Management Protocol)

community

   Set the SNMP community

v3

   SNMPv3

<v3_comm>

   Community word

<v_ipv4_addr>

   IPv4 address

<v_ipv4_netmask>

   IPv4 netmask

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server contact <v_line255>

Syntax

```
snmp-server contact <v_line255>
```

Syntax Description

snmp-server

   Set the SNMP server's configurations

contact

   Set the SNMP server's contact string

<v_line255>

   contact string

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server engine-id local <engineID>

Syntax

```
snmp-server engine-id local <engineID>
```

Syntax Description

snmp-server

SNMP(Simple Network Management Protocol)

engine-id

Set SNMP engine ID

local

Set SNMP local engine ID

<engineID>

local engine ID

Command Mode

Global Configuration Mode

Privilege level

13

----

snmp-server host <conf_name>

Syntax

```
snmp-server host <conf_name>
```

Syntax Description

snmp-server

Set SNMP server's configurations

host

Set SNMP host's configurations

<conf_name>

Name of the host configuration

Command Mode
Global Configuration Mode

Privilege level
15

----

snmp-server host <conf_name> traps

Syntax
```
snmp-server host <conf_name> traps [ linkup ] [ linkdown ] [ lldp ]
```

Syntax Description

snmp-server
> Set SNMP server's configurations

host
> Set SNMP host's configurations

<conf_name>
> Name of the host configuration

traps
> Enable traps

linkup
> Link up event

linkdown
> Link down event

lldp
> LLDP event

Command Mode
Port List Interface Mode

Privilege level
15

----

snmp-server location <v_line255>

Syntax
```
snmp-server location <v_line255>
```

Syntax Description

snmp-server
> Set the SNMP server's configurations

location
> Set the SNMP server's location string

<v_line255>
> location string

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server security-to-group model

Syntax

```
snmp-server security-to-group model { v1 | v2c | v3 } name <security_name>
group <group_name>
```

Syntax Description

snmp-server
> SNMP(Simple Network Management Protocol)

security-to-group
> security-to-group configuration

model
> security model

v1
> v1 security model

v2c
> v2c security model

v3
> v3 security model

name
> security user

<security_name>
> security user name

group
> security group

<group_name>

    security group name

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server trap

Syntax

```
snmp-server trap
```

Syntax Description

snmp-server

    Set SNMP server's configurations

trap

    Set trap's configurations

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server user <username> engine-id <engineID>

Syntax

```
snmp-server user <username> engine-id <engineID> [ { md5 <md5_passwd> | sha
<sha_passwd> } [ priv { des | aes } <priv_passwd> ] ]
```

Syntax Description

snmp-server

    SNMP(Simple Network Management Protocol)

user

    Set the SNMPv3 user's configurations

<username>

    Username

engine-id

    engine ID

<engineID>

    Engine ID octet string

md5

    Set MD5 protocol

<md5_passwd>

    MD5 password

sha

    Set SHA protocol

<sha_passwd>

    SHA password

priv

    Set Privacy

des

    Set DES protocol

aes

    Set AES protocol

<priv_passwd>

    Set privacy password

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server version

Syntax

```
snmp-server version { v1 | v2c | v3 }
```

Syntax Description

snmp-server

    SNMP(Simple Network Management Protocol)

version

    Set the SNMP server's version

v1

    SNMPv1

v2c

    SNMPv2c

v3

SNMPv3

Command Mode

Global Configuration Mode

Privilege level

15

----

snmp-server view <view_name> <oid_subtree>

Syntax

```
snmp-server view <view_name> <oid_subtree> { include | exclude }
```

Syntax Description

snmp-server

SNMP(Simple Network Management Protocol)

view

MIB view configuration

<view_name>

MIB view name

<oid_subtree>

MIB view OID

include

Ixcluded type from the view

exclude

Excluded type from the view

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree

Syntax

```
spanning-tree
```

Syntax Description

spanning-tree
> Enable/disable STP on this interface

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree

Syntax

```
spanning-tree
```

Syntax Description

spanning-tree
> Enable/disable STP on this interface

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree aggregation

Syntax

```
spanning-tree aggregation
```

Syntax Description

spanning-tree
> Spanning Tree protocol

aggregation
> Aggregation mode

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree auto-edge

Syntax

```
spanning-tree auto-edge
```

Syntax Description

spanning-tree
   STP Bridge

auto-edge
   Auto detect edge status

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree auto-edge

Syntax

```
spanning-tree auto-edge
```

Syntax Description

spanning-tree
   STP Bridge

auto-edge
   Auto detect edge status

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree bpdu-guard

Syntax

```
spanning-tree bpdu-guard
```

Syntax Description

spanning-tree
  STP Bridge

bpdu-guard
  Enable/disable BPDU guard

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree bpdu-guard

Syntax

```
spanning-tree bpdu-guard
```

Syntax Description

spanning-tree
  STP Bridge

bpdu-guard
  Enable/disable BPDU guard

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree edge

Syntax

```
spanning-tree edge
```

Syntax Description

spanning-tree
  STP Bridge

edge
  Edge port

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree edge

Syntax

```
spanning-tree edge
```

Syntax Description

spanning-tree

STP Bridge

edge

Edge port

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree edge bpdu-filter

Syntax

```
spanning-tree edge bpdu-filter
```

Syntax Description

spanning-tree

STP Bridge

edge

Edge ports

bpdu-filter

Enable BPDU filter (stop BPDU tx/rx)

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree edge bpdu-guard

Syntax

```
spanning-tree edge bpdu-guard
```

Syntax Description

spanning-tree
   STP Bridge

edge
   Edge ports

bpdu-guard
   Enable BPDU guard

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree link-type

Syntax

```
spanning-tree link-type { point-to-point | shared | auto }
```

Syntax Description

spanning-tree
   STP Bridge

link-type
   Port link-type

point-to-point
   Forced to point-to-point

shared
   Forced to Shared

auto
   Auto detect

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree link-type

Syntax

```
spanning-tree link-type { point-to-point | shared | auto }
```

Syntax Description

spanning-tree

STP Bridge

link-type

Port link-type

point-to-point

Forced to point-to-point

shared

Forced to Shared

auto

Auto detect

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree mode

Syntax

```
spanning-tree mode { stp | rstp | mstp }
```

Syntax Description

spanning-tree

STP Bridge

mode

STP protocol mode

stp

802.1D Spanning Tree

rstp

Rabid Spanning Tree (802.1w)

mstp

Multiple Spanning Tree (802.1s)

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree mst <instance> cost

Syntax

```
spanning-tree mst <instance> cost { <cost> | auto }
```

Syntax Description

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

cost

STP Cost of this port

<cost>

Cost range

auto

Use auto cost

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree mst <instance> cost

Syntax

```
spanning-tree mst <instance> cost { <cost> | auto }
```

Syntax Description

spanning-tree

> STP Bridge

mst

> STP bridge instance

<instance>

> instance 0-7 (CIST=0, MST2=1...)

cost

> STP Cost of this port

<cost>

> Cost range

auto

> Use auto cost

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree mst <instance> port-priority <prio>

Syntax

```
spanning-tree mst <instance> port-priority <prio>
```

Syntax Description

spanning-tree

> STP Bridge

mst

> STP bridge instance

<instance>

> instance 0-7 (CIST=0, MST2=1...)

port-priority

> STP priority of this port

<prio>

> Range (lower higher priority)

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree mst <instance> port-priority <prio>

Syntax

```
spanning-tree mst <instance> port-priority <prio>
```

Syntax Description

spanning-tree

   STP Bridge

mst

   STP bridge instance

<instance>

   instance 0-7 (CIST=0, MST2=1...)

port-priority

   STP priority of this port

<prio>

   Range (lower higher priority)

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree mst <instance> priority <prio>

Syntax

```
spanning-tree mst <instance> priority <prio>
```

Syntax Description

spanning-tree

   STP Bridge

mst

   STP bridge instance

<instance>

   instance 0-7 (CIST=0, MST2=1...)

priority

Priority of the instance

<prio>

Range in seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree mst <instance> vlan <v_vlan_list>

Syntax

```
spanning-tree mst <instance> vlan <v_vlan_list>
```

Syntax Description

spanning-tree

STP Bridge

mst

STP bridge instance

<instance>

instance 0-7 (CIST=0, MST2=1...)

vlan

VLAN keyword

<v_vlan_list>

Range of VLANs

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree mst forward-time <fwdtime>

Syntax

```
spanning-tree mst forward-time <fwdtime>
```

Syntax Description

spanning-tree
> STP Bridge

mst
> STP bridge instance

forward-time
> Delay between port states

<fwdtime>
> Range in seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree mst max-age <maxage>

Syntax

```
spanning-tree mst max-age <maxage> [ forward-time <fwdtime> ]
```

Syntax Description

spanning-tree
> STP Bridge

mst
> STP bridge instance

max-age
> Max bridge age before timeout

<maxage>
> Range in seconds

forward-time
> forward-time

<fwdtime>
> <fwdtime>

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree mst max-hops <maxhops>

Syntax

```
spanning-tree mst max-hops <maxhops>
```

Syntax Description

spanning-tree
 STP Bridge

mst
 STP bridge instance

max-hops
 MSTP bridge max hop count

<maxhops>
 Hop count range

Command Mode
Global Configuration Mode

Privilege level
15

----

spanning-tree mst name <name> revision <v_0_to_65535>

Syntax

```
spanning-tree mst name <name> revision <v_0_to_65535>
```

Syntax Description

spanning-tree
 STP Bridge

mst
 STP bridge instance

name
 Name keyword

<name>
 Name of the bridge

revision
 Revision keyword

<v_0_to_65535>
 Revision number

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree recovery interval <interval>

Syntax

```
spanning-tree recovery interval <interval>
```

Syntax Description

spanning-tree
   STP Bridge

recovery
   The error recovery timeout

interval
   The interval

<interval>
   Range in seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

spanning-tree restricted-role

Syntax

```
spanning-tree restricted-role
```

Syntax Description

spanning-tree
   STP Bridge

restricted-role
   Port role is restricted (never root port)

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree restricted-role

Syntax

```
spanning-tree restricted-role
```

Syntax Description

spanning-tree
   STP Bridge

restricted-role
   Port role is restricted (never root port)

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree restricted-tcn

Syntax

```
spanning-tree restricted-tcn
```

Syntax Description

spanning-tree
   STP Bridge

restricted-tcn
   Restrict topology change notifications

Command Mode

Port List Interface Mode

Privilege level

15

----

spanning-tree restricted-tcn

Syntax

```
spanning-tree restricted-tcn
```

Syntax Description

spanning-tree
> STP Bridge

restricted-tcn
> Restrict topology change notifications

Command Mode

STP Aggregation Mode

Privilege level

15

----

spanning-tree transmit hold-count <holdcount>

Syntax

```
spanning-tree transmit hold-count <holdcount>
```

Syntax Description

spanning-tree
> STP Bridge

transmit
> BPDUs to transmit

hold-count
> Max number of transmit BPDUs per sec

<holdcount>
> 1-10 per sec, 6 is default

Command Mode

Global Configuration Mode

Privilege level

15

----

speed

Syntax

```
speed { 10g | 2500 | 1000 | 100 | 10 | auto { [ 10 ] [ 100 ] [ 1000 ] } }
```

Syntax Description

speed

Configures interface speed. If you use 10, 100, or 1000 keywords with the auto keyword the port will only advertise the specified speeds.

10g

10Gbps

2500

2.5Gbps

1000

1Gbps

100

100Mbps

10

10Mbps

auto

Auto negotiation

10

10Mbps

100

100Mbps

1000

1Gbps

Command Mode

Port List Interface Mode

Privilege level

15

----

switchport access vlan <pvid>

Syntax

```
switchport access vlan <pvid>
```

Syntax Description

switchport

Set switching mode characteristics

access

Set access mode characteristics of the interface

vlan

Set VLAN when interface is in access mode

<pvid>

VLAN ID of the VLAN when this port is in access mode

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport forbidden vlan

Syntax

```
switchport forbidden vlan { add | remove } <vlan_list>
```

Syntax Description

switchport

Set switching mode characteristics

forbidden

Adds or removes forbidden VLANs from the current list of forbidden VLANs

vlan

Add or modify VLAN entry in forbidden table.

add

Add to existing list.

remove

Remove from existing list.

<vlan_list>

VLAN IDs

Command Mode

Port List Interface Mode

Privilege level

15

----

switchport hybrid acceptable-frame-type

Syntax

```
switchport hybrid acceptable-frame-type { all | tagged | untagged }
```

Syntax Description

switchport

Set switching mode characteristics

hybrid

Set hybrid characteristics of the interface

acceptable-frame-type

Set acceptable frame type on a port

all

Allow all frames

tagged

Allow only tagged frames

untagged

Allow only untagged frames

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport hybrid allowed vlan

Syntax

```
switchport hybrid allowed vlan { all | none | [ add | remove | except ]
<vlan_list> }
```

Syntax Description

switchport

Set switching mode characteristics

hybrid

Set hybrid characteristics of the interface

allowed

Set allowed VLAN characteristics when interface is in hybrid mode

vlan

Set allowed VLANs when interface is in hybrid mode

all

All VLANs

none

No VLANs

add

Add VLANs to the current list

remove

Remove VLANs from the current list

except

All VLANs except the following

<vlan_list>

VLAN IDs of the allowed VLANs when this port is in hybrid mode

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport hybrid egress-tag

Syntax

```
switchport hybrid egress-tag { none | all [ except-native ] }
```

Syntax Description

switchport

Set switching mode characteristics

hybrid

Set hybrid characteristics of the interface

egress-tag

Egress VLAN tagging configuration

none

No egress tagging

all

Tag all frames

except-native

Tag all frames except frames classified to native VLAN of the hybrid port

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport hybrid ingress-filtering

Syntax

```
switchport hybrid ingress-filtering
```

Syntax Description

switchport

Set switching mode characteristics

hybrid

Set hybrid characteristics of the interface

ingress-filtering

VLAN Ingress filter configuration

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport hybrid native vlan <pvid>

Syntax

```
switchport hybrid native vlan <pvid>
```

Syntax Description

switchport

Set switching mode characteristics

hybrid

Change PVID for hybrid port

native

Set native VLAN

vlan

Set native VLAN when interface is in hybrid mode

<pvid>

VLAN ID of the native VLAN when this port is in hybrid mode

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport hybrid port-type

Syntax

switchport hybrid port-type { unaware | c-port | s-port | s-custom-port }

Syntax Description

switchport

Set switching mode characteristics

hybrid

Set hybrid characteristics of the interface

port-type

Set port type

unaware

Port in not aware of VLAN tags.

c-port

Customer port

s-port

Provider port

s-custom-port

Custom Provider port

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport mode

Syntax

switchport mode { access | trunk | hybrid }

Syntax Description

switchport

Set switching mode characteristics

mode

Set mode of the interface

access

Set mode to ACCESS unconditionally

trunk

Set mode to TRUNK unconditionally

hybrid

Set mode to HYBRID unconditionally

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport trunk allowed vlan

Syntax

```
switchport trunk allowed vlan { all | none | [ add | remove | except ]
<vlan_list> }
```

Syntax Description

switchport

Set switching mode characteristics

trunk

Set trunk mode characteristics of the interface

allowed

Set allowed VLAN characteristics when interface is in trunk mode

vlan

Set allowed VLANs when interface is in trunk mode

all

All VLANs

none

No VLANs

add

Add VLANs to the current list

remove

Remove VLANs from the current list

except

All VLANs except the following

<vlan_list>

VLAN IDs of the allowed VLANs when this port is in trunk mode

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport trunk native vlan <pvid>

Syntax

```
switchport trunk native vlan <pvid>
```

Syntax Description

switchport

Set switching mode characteristics

trunk

Change PVID for trunk port

native

Set native VLAN

vlan

Set native VLAN when interface is in trunk mode

<pvid>

VLAN ID of the native VLAN when this port is in trunk mode

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport trunk vlan tag native

Syntax

```
switchport trunk vlan tag native
```

Syntax Description

switchport

Set switching mode characteristics

trunk

Set trunk characteristics of the interface

vlan

Vlan commands

tag

tag parameters

native

tag native vlan

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport vlan ip-subnet id <vce_id> <ipv4> vlan <vid>

Syntax

```
switchport vlan ip-subnet id <vce_id> <ipv4> vlan <vid>
```

Syntax Description

switchport

Switching mode characteristics

vlan

VLAN commands

ip-subnet

VCL IP Subnet-based VLAN configuration.

id

id keyword

<vce_id>

Unique VCE ID for each VCL entry (1-128)

<ipv4>

Source IP address and mask (Format: xx.xx.xx.xx/mm.mm.mm.mm).

vlan

vlan keyword

<vid>
> VLAN ID required for the group to VLAN mapping (Range: 1-4095)

Command Mode
Port List Interface Mode

Privilege level
13

----

switchport vlan mac <mac_addr> vlan <vid>

Syntax
> switchport vlan mac <mac_addr> vlan <vid>

Syntax Description

switchport
> Switching mode characteristics

vlan
> VLAN commands

mac
> MAC-based VLAN commands

<mac_addr>
> 48 bit unicast MAC address: xx:xx:xx:xx:xx:xx

vlan
> vlan keyword

<vid>
> VLAN ID required for the group to VLAN mapping (Range: 1-4095)

Command Mode
Port List Interface Mode

Privilege level
13

----

switchport vlan mapping <group>

Syntax
> switchport vlan mapping <group>

Syntax Description

switchport

Set switching mode characteristics

vlan

vlan - VLAN translation

mapping

Maps an interface to a VLAN translation group..

<group>

Group id

Command Mode

Port List Interface Mode

Privilege level

15

--**switchport vlan mapping <group> <vlan_list>**

<translation_vlan>

Syntax

```
switchport vlan mapping <group> <vlan_list> <translation_vlan>
```

Syntax Description

switchport

Set switching mode characteristics

vlan

vlan - Vlan translation

mapping

Add VLAN translation entry into a group.

<group>

Group id

<vlan_list>

<vlan_list>

<translation_vlan>

<translation_vlan>

Command Mode

Global Configuration Mode

Privilege level

15

----

switchport vlan protocol group <grp_id> vlan <vid>

Syntax

```
switchport vlan protocol group <grp_id> vlan <vid>
```

Syntax Description

switchport

Switching mode characteristics

vlan

VLAN commands

protocol

Protocol-based VLAN commands

group

Protocol-based VLAN group commands

<grp_id>

Group Name (Range: 1 - 16 characters)

vlan

vlan keyword

<vid>

VLAN ID required for the group to VLAN mapping (Range: 1-4095)

Command Mode

Port List Interface Mode

Privilege level

13

----

switchport voice vlan discovery-protocol

Syntax

```
switchport voice vlan discovery-protocol { oui | lldp | both }
```

Syntax Description

switchport

Set switching mode characteristics

voice

Voice appliance attributes

vlan

Vlan for voice traffic

discovery-protocol

Set Voice VLAN port discovery protocol

oui

Detect telephony device by OUI address

lldp

Detect telephony device by LLDP

both

Detect telephony device by OUI address and LLDP

Command Mode

Port List Interface Mode

Privilege level

15

----

switchport voice vlan mode

Syntax

```
switchport voice vlan mode { auto | force | disable }
```

Syntax Description

switchport

Set switching mode characteristics

voice

Voice appliance attributes

vlan

Vlan for voice traffic

mode

Set Voice VLAN port mode

auto

Enable auto detect mode

force
>   Force to join Voice VLAN

disable
>   disjoin Voice VLAN

Command Mode

Port List Interface Mode

Privilege level

15

----

switchport voice vlan security

Syntax

```
switchport voice vlan security
```

Syntax Description

switchport
>   Set switching mode characteristics

voice
>   Voice appliance attributes

vlan
>   Vlan for voice traffic

security
>   Enable Voice VLAN port security mode

Command Mode

Port List Interface Mode

Privilege level

15

----

tacacs-server deadtime <minutes>

Syntax

```
tacacs-server deadtime <minutes>
```

Syntax Description

tacacs-server
>   Configure TACACS+

deadtime

    Time to stop using a TACACS+ server that doesn't respond

<minutes>

    Time in minutes

Command Mode

Global Configuration Mode

Privilege level

15

----

tacacs-server host <host_name>

Syntax

```
tacacs-server host <host_name> [ port <port> ] [ timeout <seconds> ] [ key
<key> ]
```

Syntax Description

tacacs-server

    Configure TACACS+

host

    Specify a TACACS+ server

<host_name>

    Hostname or IP address

port

    TCP port for TACACS+ server

<port>

    TCP port number

timeout

    Time to wait for this TACACS+ server to reply (overrides default)

<seconds>

    Wait time in seconds

key

    Server specific key (overrides default)

<key>

    The shared key

Command Mode

Global Configuration Mode

Privilege level

15

----

tacacs-server key <key>

Syntax

```
tacacs-server key <key>
```

Syntax Description

tacacs-server

> Configure TACACS+

key

> Set TACACS+ encryption key

<key>

> The shared key

Command Mode

Global Configuration Mode

Privilege level

15

----

tacacs-server timeout <seconds>

Syntax

```
tacacs-server timeout <seconds>
```

Syntax Description

tacacs-server

> Configure TACACS+

timeout

> Time to wait for a TACACS+ server to reply

<seconds>

> Wait time in seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

terminal editing

Syntax

```
terminal editing
```

Syntax Description

terminal
    Set terminal line parameters

editing
    Enable command line editing

Command Mode

User EXEC Mode

Privilege level

13

----

terminal exec-timeout <min>

Syntax

```
terminal exec-timeout <min> [ <sec> ]
```

Syntax Description

terminal
    Set terminal line parameters

exec-timeout
    Set the EXEC timeout

<min>
    Timeout in minutes

<sec>
    Timeout in seconds

Command Mode

User EXEC Mode

Privilege level

15

----

terminal help

Syntax

```
terminal help
```

Syntax Description

terminal

Set terminal line parameters

help

Description of the interactive help system

Command Mode

User EXEC Mode

Privilege level

13

----

terminal history size <history_size>

Syntax

```
terminal history size <history_size>
```

Syntax Description

terminal

Set terminal line parameters

history

Control the command history function

size

Set history buffer size

<history_size>

Number of history commands, 0 means disable

Command Mode

User EXEC Mode

Privilege level

15

----

terminal length <lines>

Syntax

```
terminal length <lines>
```

Syntax Description

terminal
Set terminal line parameters

length
Set number of lines on a screen

<lines>
Number of lines on screen (0 for no pausing)

Command Mode

User EXEC Mode

Privilege level

15

----

terminal width <width>

Syntax

```
terminal width <width>
```

Syntax Description

terminal
Set terminal line parameters

width
Set width of the display terminal

<width>
Number of characters on a screen line (0 for unlimited width)

Command Mode

User EXEC Mode

Privilege level

15

----

test-interface <port_type> <ifc>

Syntax

```
test-interface <port_type> <ifc>
```

Syntax Description

test-interface

Set the egress interface on which PDUs are transmitted

<port_type>

Port type in Fast, Giga or Tengiga ethernet

<ifc>

Port ID in the format of switch-no/port-no

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

test-vlan <vid>

Syntax

```
test-vlan <vid> [ pcp <pcp> ] [ dei <dei> ]
```

Syntax Description

test-vlan

Create a VLAN Down-MEP. All PDUs will then be transmitted with a VLAN tag

<vid>

The VLAN ID used in transmitted PDUs

pcp

Control the VLAN tag's PCP value

<pcp>

The PCP value used in the VLAN tag in transmitted PDUs

dei

Control the VLAN tag's DEI value

<dei>

The DEI value used in the VLAN tag in transmitted PDUs

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

thermal-protect port-prio <prio>

Syntax

```
thermal-protect port-prio <prio>
```

Syntax Description

thermal-protect

Thermal priority for the interface.

port-prio

Sets the priority for the interface(s).

<prio>

Priority.

Command Mode

Port List Interface Mode

Privilege level

15

----

thermal-protect prio <prio_list> temperature <new_temp>

Syntax

```
thermal-protect prio <prio_list> temperature <new_temp>
```

Syntax Description

thermal-protect

Thermal protection configuirations.

prio

Sets temperature at which to turn ports with the corresponding priority off.

<prio_list>

Prioity or priorities.

temperature

temperature

<new_temp>

Temperature which to turn ports with the corresponding priority off.

Command Mode

Global Configuration Mode

Privilege level

15

----

throughput

Syntax

```
throughput [ duration <tp_duration> ] [ rate { [ min <tp_min> ] [ max <tp_max>
] [ accuracy <tp_step> ] } ] [ allowed-loss <tp_allowed_loss> ]
```

Syntax Description

throughput

Enable throughput test and optionally set its parameters

duration

Set the duration of one trial

<tp_duration>

Duration - in seconds - of one trial

rate

Set the minimum, maximum, and/or rate steps

min

Set the minimum rate

<tp_min>

The minimum rate - in permille of link speed - to run test at

max

Set the maximum rate

<tp_max>

The maximum rate - in permille of link speed - to run test at

accuracy

Set the accuracy (stop criterion)

<tp_step>

When two consecutive trials are less than the accuracy (in permille of link speed) apart, the test stops

allowed-loss

Set the maximum allowed TST PDU loss at which the test is considered successful

<tp_allowed_loss>

The maximum allowed loss in permille at which the test is considered successful

Command Mode

RFC2544 Profile Mode

Privilege level

15

----

traps

Syntax

```
traps [ aaa authentication ] [ system [ coldstart ] [ warmstart ] ] [ switch [
stp ] [ rmon ] ]
```

Syntax Description

traps

trap event configuration

aaa

AAA event group

authentication

Authentication fail event

system

System event group

coldstart

Cold start event

warmstart

Warm start event

switch

Switch event group

stp

STP event

rmon

RMON event

Command Mode

SNMP Server Host Mode

Privilege level

15

----

upnp

Syntax

upnp

Syntax Description

upnp
Set UPnP's configurations

Command Mode

Global Configuration Mode

Privilege level

15

----

upnp advertising-duration <v_100_to_86400>

Syntax

upnp advertising-duration <v_100_to_86400>

Syntax Description

upnp
Set UPnP's configurations

advertising-duration
Set advertising duration

<v_100_to_86400>
advertising duration

Command Mode

Global Configuration Mode

Privilege level

15

----

upnp ttl <v_1_to_255>

Syntax

upnp ttl <v_1_to_255>

Syntax Description

upnp

Set UPnP's configurations

ttl

Set TTL value

<v_1_to_255>

TTL value

Command Mode

Global Configuration Mode

Privilege level

15

----

username <username> privilege <priv> password encrypted

<encry_password>

Syntax

```
username <username> privilege <priv> password encrypted <encry_password>
```

Syntax Description

username

Establish User Name Authentication

<username>

User name allows letters, numbers and underscores

privilege

Set user privilege level

<priv>

User privilege level

password

Specify the password for the user

encrypted

Specifies an ENCRYPTED password will follow

<encry_password>

The ENCRYPTED (hidden) user password. Notice the ENCRYPTED password will be decoded by system internally. You cannot directly use it as same as the Plain Text and it is not human-readable text normally.

Command Mode

Global Configuration Mode

Privilege level

15

----

username <username> privilege <priv> password none

Syntax

```
username <username> privilege <priv> password none
```

Syntax Description

username

Establish User Name Authentication

<username>

User name allows letters, numbers and underscores

privilege

Set user privilege level

<priv>

User privilege level

password

Specify the password for the user

none

NULL password

Command Mode

Global Configuration Mode

Privilege level

15

----

username <username> privilege <priv> password

unencrypted <password>

Syntax

```
username <username> privilege <priv> password unencrypted <password>
```

Syntax Description

username

Establish User Name Authentication

<username>
　　User name allows letters, numbers and underscores

privilege
　　Set user privilege level

<priv>
　　User privilege level

password
　　Specify the password for the user

unencrypted
　　Specifies an UNENCRYPTED password will follow

<password>
　　The UNENCRYPTED (Plain Text) user password. Any printable characters including space is accepted. Notice that you have no chance to get the Plain Text password after this command. The system will always display the ENCRYPTED password.

Command Mode
Global Configuration Mode

Privilege level
15

----

vendor class-identifier <class_id> specific-info <hexval>

Syntax
```
vendor class-identifier <class_id> specific-info <hexval>
```

Syntax Description

vendor
　　Vendor configuration

class-identifier
　　Vendor class identifier

<class_id>
　　Class identifier in 64 characters

specific-info
　　Vendor specific information

<hexval>
　　Hex values in 64 octets

Command Mode
DHCP Pool Configuration Mode

Privilege level

13

----

version

Syntax

```
version { v1 [ <v1_comm> ] | v2 [ <v2_comm> ] | v3 [ probe | engineID
<v_word10_to_32> ] [ <securtyname> ] }
```

Syntax Description

version

Set SNMP trap version

v1

SNMP trap version 1

<v1_comm>

SNMP trap community

v2

SNMP trap version 2

<v2_comm>

SNMP trap community

v3

SNMP trap version 3

probe

Probe trap server's engine ID

engineID

Configure trap server's engine ID

<v_word10_to_32>

trap server's engine ID

<securtyname>

seucrity name

Command Mode

SNMP Server Host Mode

Privilege level

15

----

vlan <vlist>

Syntax

```
vlan <vlist>
```

Syntax Description

vlan

VLAN commands

<vlist>

ISL VLAN IDs 1~4095

Command Mode

Global Configuration Mode

Privilege level

15

----

vlan ethertype s-custom-port <etype>

Syntax

```
vlan ethertype s-custom-port <etype>
```

Syntax Description

vlan

Vlan commands

ethertype

Ether type for Custom S-ports

s-custom-port

Custom S-ports configuration

<etype>

Ethertype (Range: 0x0600-0xffff)

Command Mode

Global Configuration Mode

Privilege level

13

----

vlan protocol

Syntax

```
vlan protocol { { eth2 { <etype> | arp | ip | ipx | at } } | { snap { <oui> |
rfc-1042 | snap-8021h } <pid> } | { llc <dsap> <ssap> } } group <grp_id>
```

Syntax Description

vlan

Vlan commands

protocol

Protocol-based VLAN commands

eth2

Ethernet-based VLAN commands

<etype>

Ether Type(Range: 0x600 - 0xFFFF)

arp

Ether Type is ARP

ip

Ether Type is IP

ipx

Ether Type is IPX

at

Ether Type is AppleTalk

snap

SNAP-based VLAN group

<oui>

SNAP OUI (Range 0x000000 - 0XFFFFFF)

rfc-1042

SNAP OUI is rfc-1042

snap-8021h

SNAP OUI is 8021h

<pid>

PID (Range: 0x0 - 0xFFFF)

llc

LLC-based VLAN group

<dsap>

DSAP (Range: 0x00 - 0xFF)

<ssap>

SSAP (Range: 0x00 - 0xFF)

group

Protocol-based VLAN group commands

<grp_id>

Group Name (Range: 1 - 16 characters)

Command Mode

Global Configuration Mode

Privilege level

13

----

voice vlan

Syntax

```
voice vlan
```

Syntax Description

voice

Voice appliance attributes

vlan

Vlan for voice traffic

Command Mode

Global Configuration Mode

Privilege level

15

----

voice vlan aging-time <aging_time>

Syntax

```
voice vlan aging-time <aging_time>
```

Syntax Description

voice

Voice appliance attributes

vlan

Vlan for voice traffic

aging-time

    Set secure learning aging time

<aging_time>

    Aging time, 10-10000000 seconds

Command Mode

Global Configuration Mode

Privilege level

15

----

voice vlan class

Syntax

```
voice vlan class { <traffic_class> | low | normal | medium | high }
```

Syntax Description

voice

    Voice appliance attributes

vlan

    Vlan for voice traffic

class

    Set traffic class

<traffic_class>

    Traffic class value

low

    Traffic class low (0)

normal

    Traffic class normal (1)

medium

    Traffic class medium (2)

high

    Traffic class high (3)

Command Mode

Global Configuration Mode

Privilege level

15

----

voice vlan oui <oui>

Syntax

```
voice vlan oui <oui> [ description <description> ]
```

Syntax Description

voice

Voice appliance attributes

vlan

Vlan for voice traffic

oui

OUI configuration

<oui>

OUI value

description

Set description for the OUI

<description>

Description line

Command Mode

Global Configuration Mode

Privilege level

15

----

voice vlan vid <vid>

Syntax

```
voice vlan vid <vid>
```

Syntax Description

voice

Voice appliance attributes

vlan

Vlan for voice traffic

vid

Set VLAN ID

<vid>

VLAN ID, 1-4095

Command Mode

Global Configuration Mode

Privilege level

15

----

web privilege group <group_name> level

Syntax

```
web privilege group <group_name> level { [ cro <cro> ] [ crw <crw> ] [ sro
<sro> ] [ srw <srw> ] }
```

Syntax Description

web

Web

privilege

Web privilege

group

Web privilege group

<group_name>

Web privilege group name

level

Web privilege group level

cro

Configuration Read-only level

<cro>

<cro>

crw

crw

<crw>

<crw>

sro

sro

<sro>

<sro>

srw

srw

<srw>

<srw>

Command Mode

Global Configuration Mode

Privilege level

15

----

width <width>

Syntax

```
width <width>
```

Syntax Description

width

Set width of the display terminal

<width>

Number of characters on a screen line (0 for unlimited width)

Command Mode

Line Configuration Mode

Privilege level

15

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