



Prestel Switches

Network switches



USER MANUAL

Managed Switch CLI Configuration Manual-RTL

(V2.1)

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Chapter 1. System Status Commands

1.1. System information

1.1.1. show system

command description

View version information (device name, software and hardware version, mac address, compilation time, etc.) parameters

none

Default

none

command mode

Privileged Mode Example

none

Example

switch# show system

System Information and Running Status

Product Model	:switch-8-2
Product MAC Address	: 00-08-09-55-AA-80
Product Serial Number	:
Software Version	: V8.0
Software Released Date	: 2022-11-22 18:32:51
Hardware Version	:
Boot Version	: MY_VERSION_BOOT
Kernel Version	: Linux3.18.24#655
System Name	:switch
System Location	:switch
System Contact	:switch
--	
Date And Time	: 1970-01-01 00:44:54
Running Time	: 13 Mins 36 Secs
--	
CPU Usage	: 5.4%
Memory Usage	: 25.5% (Total:126028 KBytes, Free:93808 KBytes)
Nvram Usage	: 3.1% (Total:262136 Bytes, Free:253760 Bytes)
--	
Board Temperature	: 6553.5 C

1.2. System log

1.2.1. show syslog

command description

View the current log information of the switch

parameters

none

default

none

command mode

privileged mode

example

switch# show syslog

Syslog Configuration

SysLog Status	: Enabled	
Log To Console	: Disabled	Level: 6
Log To Cache	: Enabled	Level: 6

1.3. Port statistics

1.3.1. show interface

Command description View port packet statistics parameters

```
show interface [PORTLIST]
  brief          Brief information
  dot1x          802.1x port configuration
  fdb            Fdb information
  gmrp           GMRP Configuration
  gvrp           GVRP Configuration
  qos            Qos information
  rateLimit      Qos rate limit
  sfp            sfp informations
  statistics     Statistic information
  stormFilter    Storm filter information
  switchport     switchPort informatio
```

PORTLIST: port list, supports forms such as Port1; default

None

command mode

privileged mode

Example

```
switch#show interface Port1 statistics
```

```
switch#show interface Port1-Port10 statistics
```

1.4. View LACP status

1.4.1. show link-aggregate

Command description View lacp system status parameters

none

default

None

command mode

privileged mode

example

```
switch(config)# show link-aggregate
group      Link aggregation group
system     Link-aggregation system informations
```

1.5. View STP status

1.5.1. show spanning-tree

command description

View spanning tree bridge status

parameters

None

default

none

command mode

Privileged mode

uses command mode

none

example

```
switch #show spanning-tree
```

1.6. View LLDP neighbors

1.6.1. show lldp

Command Description View lldp neighbor information parameters

None

default

None

command mode

privileged mode

example

```
switch(config)# interface Port1
switch(config-Port1)# show lldp
localSystem LLDP local system
remoteSystem LLDP remote system
```

1.7. View the Layer 2 forwarding table

1.7.1. show fdb

View Layer 2 Forwarding Table

parameters

none

default

None
command mode
privileged mode
example
switch(config)# show fdb
agingTime Aging-time
linkDownFastAging Link down fast aging
multicastDynamic Multicast-dynamic
multicastStatic Multicast-static
multicastTable Multicast-table
unicastStatic Unicast-static
unicastTable Unicast-table

1.8. View current configuration

1.8.1. show running-config

Command description View current configuration
default

None
command mode
privileged mode
example
switch#show running-config

1.9. View STP status

GSW# show interface Port1-Port2 brief

Port Name	: Port1
Port Media	: Copper
Shutdown	: No
Auto Negotiation	: Enabled
Force Duplex	: Full
Force Speed	: 1000Mbps
Flow Control	: Off
Link Status	: Down
Link Duplex	: Half
Link Speed	: 10Mbps

Port Name	: Port2
Port Media	: Copper
Shutdown	: No
Auto Negotiation	: Enabled
Force Duplex	: Full

Force Speed : 1000Mbps
Flow Control : Off
Link Status : Down
Link Duplex : Half
Link Speed : 10Mbps

Total 2 Ports listed

GSW#

1.10 show history

```
GSW# show history
show gmrp
show gvrp
GSW# █
```

1.11 show radius-server

```
GSW# show radius-server

Radius server host: 192.168.1.16
Radius server port: 1812
Radius server key: 123456

GSW# █
```

1.12. show static-route

```
GSW# show static-route
  Destination      Gateway      Genmask      Metric  Inused
-----
  0.0.0.0          192.168.1.1  0.0.0.0      0       Yes
-----
Total 1 Static Route entry listed

GSW# █
```

1.13. show syslog messages

```

SW#
SW#
SW#
SW# show syslog messages
ern.info 1970-01-01 02:02:54 swdaemon[60]: Administrator 'admin' signed in successfully from console@Console
ern.info 1970-01-01 02:02:22 swdaemon[60]: Port2 port status changed to link up
ern.info 1970-01-01 01:31:13 swdaemon[60]: Administrator 'admin' exited from console@Console: Accessed Timeout
ern.info 1970-01-01 01:21:34 swdaemon[60]: Administrator 'admin' signed in successfully from console@Console
ern.notice 1970-01-01 01:21:31 swdaemon[60]: Login is failed by user 'admin' from console@Console : Incorrect User Password
ern.info 1970-01-01 01:17:49 swdaemon[60]: Administrator 'admin' exited from console@Console: Accessed Timeout
ern.info 1970-01-01 01:12:46 swdaemon[60]: Administrator 'admin' signed in successfully from console@Console
ern.info 1970-01-01 00:52:03 swdaemon[60]: Administrator 'admin' exited from console@Console: Accessed Timeout
ern.info 1970-01-01 00:47:03 swdaemon[60]: Administrator 'admin' signed in successfully from console@Console
ern.info 1970-01-01 00:45:31 swdaemon[60]: Port6 port status changed to link down
ern.info 1970-01-01 00:45:24 swdaemon[60]: Port6 port status changed to link up
ern.info 1970-01-01 00:27:08 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:27:06 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:24:57 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:24:54 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:22:57 swdaemon[60]: Port4 port status changed to link down
ern.info 1970-01-01 00:22:57 swdaemon[60]: Port1 port status changed to link down
ern.info 1970-01-01 00:21:24 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:21:17 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:20:36 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:20:33 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:20:32 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:20:29 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:20:26 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:20:24 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:12:42 swdaemon[60]: Administrator 'admin' exited from web-1@192.168.1.111: Accessed Timeout
ern.info 1970-01-01 00:12:03 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:11:53 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:11:44 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:11:42 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:11:30 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:11:26 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:11:22 swdaemon[60]: Port12 port status changed to link up
ern.info 1970-01-01 00:11:11 swdaemon[60]: Port12 port status changed to link down
ern.info 1970-01-01 00:11:09 swdaemon[60]: Port12 port status changed to link up

```

1.14.show time

```

GSW# show time

System Date and Time
-----
System Time      : 1970-01-01 00:02:11
Location         : (26)[+8:00]Beijing, Perth, Singapore, Hong Kong
-----

GSW# 

```

1.15.show timeout

```
GSW# show timeout
```

Access Timeout Parameters

```
-----  
Console   : 5   minutes  
Telnet    : 5   minutes  
SSH       : 5   minutes  
Web       : 5   minutes  
-----
```

```
GSW# █
```

1.16.show timezone-list

```
GSW# show timeout
```

Access Timeout Parameters

```
-----  
Console   : 5   minutes  
Telnet    : 5   minutes  
SSH       : 5   minutes  
Web       : 5   minutes  
-----
```

```
GSW# show timezone-list
```

Supported Time Zone List

```
-----  
(1)[-12:00]Eniwetok, Kwajalein  
(2)[-11:00]Midway Island, Samoa  
(3)[-10:00]Hawaii  
(4)[-9:00]Alaska  
(5)[-8:00]Pacific Time (US & Canada)  
(6)[-7:00]Mountain Time (US & Canada)  
(7)[-6:00]Central Time (US & Canada), Mexico City  
(8)[-5:00]Eastern Time (US & Canada), Bogota, Lima  
(9)[-4:00]Atlantic Time (Canada), Caracas, La Paz  
(10)[-3:30]Newfoundland  
(11)[-3:00]Brazil, Buenos Aires, Georgetown  
(12)[-2:00]Mid-Atlantic  
(13)[-1:00]Azores, Cape Verde Islands  
(14)[+0:00]Western Europe Time, London, Lisbon, Casablanca  
(15)[+1:00]Brussels, Copenhagen, Madrid, Paris  
(16)[+2:00]Kaliningrad, South Africa  
(17)[+3:00]Baghdad, Riyadh, Moscow, St. Petersburg  
(18)[+3:30]Tehran  
(19)[+4:00]Abu Dhabi, Muscat, Baku, Tbilisi  
(20)[+4:30]Kabul  
(21)[+5:00]Ekaterinburg, Islamabad, Karachi, Tashkent  
(22)[+5:30]Bombay, Calcutta, Madras, New Delhi  
(23)[+5:45]Kathmandu  
(24)[+6:00]Almaty, Dhaka, Colombo  
(25)[+7:00]Bangkok, Hanoi, Jakarta  
(26)[+8:00]Beijing, Perth, Singapore, Hong Kong  
(27)[+9:00]Tokyo, Seoul, Osaka, Sapporo, Yakutsk  
(28)[+9:30]Adelaide, Darwin  
(29)[+10:00]Eastern Australia, Guam, Vladivostok  
(30)[+11:00]Magadan, Solomon Islands, New Caledonia  
(31)[+12:00]Auckland, Wellington, Fiji, Kamchatka  
-----
```

```
GSW#
```

1.17.show arp

```

GSW# show arp

  IP Address      HW Address      Interface
-----
  192.168.1.1     EC6073-321E22   ip0
-----
Total 1 ARP entry listed

GSW# █

```

1.18.show cpu

```

GSW# show cpu

  CPU Status
-----
CPU Usage           : 6.7%
-----

GSW# █

```

1.19.GSW(config)# show spanning-tree

```

GSW# config
GSW(config)# show spanning-tree

spanning tree informations
-----
Stp Mode           : rstp
Bridge ID          : 207759-0CE7F5/32768
Root Bridge        : 207759-0CE7F5/32768
Root Path Cost     : 0
Configured Times
forwardDelay       helloTime      maxAge      txLimit
-----
15                 2                20          6

Operational Times
forwardDelay       helloTime      maxAge      messageAge
-----
15                 2                20          0
-----

GSW(config)# █

```

1.20.show gmrp global

```

GSW# show gmrp global

GMRP Global Configuration
Status              : Disabled
Hold Time           : 100 ms
Join Time            : 200 ms
Leave Time            : 600 ms
LeaveAll Time         : 10000 ms

```

1.21.show gvrp global

```
GSW# show gvrp global

GVRP Global Configuration
Status       : Disabled
Hold Time    : 100 ms
Join Time     : 200 ms
Leave Time     : 600 ms
LeaveAll Time  : 10000 ms

GSW#
```

1.22.show gvrp global

1.20.(GSW)#list

```
GSW# list
<4> clear
<4> config
<1> default factory
<4> exit
<4> help
<4> list
<4> ping DSTIP
<4> quit
<4> reset
<4> show acl all
<4> show acl index INDEXLIST
<4> show acl name NAME
<4> show alarm (settings|relay|light|trap)
<4> show arp
<4> show cpu
<4> show dhcp-client
<4> show dhcp-client6
<3> show dot1x global
<4> show fdb agingTime
<4> show fdb linkDownFastAging
<4> show fdb multicastDynamic
<4> show fdb multicastDynamic vlan <1-4094>
<4> show fdb multicastStatic
<4> show fdb multicastStatic vlan <1-4094>
<4> show fdb multicastTable
<4> show fdb multicastTable vlan <1-4094>
<4> show fdb unicastStatic
<4> show fdb unicastStatic port PORT
<4> show fdb unicastStatic vlan <1-4094>
<4> show fdb unicastStatic vlan <1-4094> port PORT
<4> show fdb unicastTable (all|dynamic|static)
<4> show fdb unicastTable (all|dynamic|static) port PORT
<4> show fdb unicastTable (all|dynamic|static) vlan <1-4094>
<4> show fdb unicastTable (all|dynamic|static) vlan <1-4094> port PORT
<4> show gmrp global
<4> show gvrp global
<4> show history
<3> show igmpSnooping
<3> show igmpSnooping ipGroups
<3> show igmpSnooping ipGroups vlan VLANLIST
<3> show igmpSnooping macGroups
<3> show igmpSnooping macGroups vlan VLANLIST
<3> show igmpSnooping vlanConfig VLANLIST
<4> show interface PORTLIST brief
<4> show interface PORTLIST dot1x
<4> show interface PORTLIST fdb learnAbility
<4> show interface PORTLIST gmrp portConfig
<4> show interface PORTLIST gvrp portConfig
<4> show interface PORTLIST qos
<4> show interface PORTLIST qos (priority|policy|schedule)
<4> show interface PORTLIST rateLimit
<4> show interface PORTLIST sfp
```

```

<4> show interface PORTLIST sfp
<4> show interface PORTLIST statistics
<4> show interface PORTLIST stormFilter
<4> show interface PORTLIST switchport
<4> show ip-interface
<4> show mirror
<4> show ntp
<4> show qos mapping dot1p
<4> show qos mapping dscp
<4> show qos mapping priority
<4> show radius-server
<4> show route
<4> show running-config
<4> show snmp
<4> show snmp v3 user
<4> show startup-config
<4> show static-route
<4> show syslog
<4> show syslog messages
<4> show system
<4> show time
<4> show timeout
<4> show timezone-list
<4> show user
<4> show vlan
<4> show vlan VLANLIST
<4> show vlan all
<4> who
<2> write
GSW#

```

1.21.GSW(config)#list

```

GSW(config)# list
<4> acl index <0-999>
<2> acl index <0-999> name NAME
<4> acl index <1000-1999>
<2> acl index <1000-1999> name NAME
<4> acl index <2000-2999>
<2> acl index <2000-2999> name NAME
<4> acl index <3000-3999>
<2> acl index <3000-3999> name NAME
<4> acl name NAME
<3> alarm light (linkDown|linkUp) interface PORTLIST (enable|disable)
<3> alarm light (powerDown|highTemperature|lowTemperature) (enable|disable)
<3> alarm powerDown (power1|power2) (enable|disable)
<3> alarm relay (linkDown|linkUp) interface PORTLIST (enable|disable)
<3> alarm relay (powerDown|highTemperature|lowTemperature) (enable|disable)
<3> alarm snmpTrap (linkDown|linkUp) interface PORTLIST (enable|disable)
<3> alarm snmpTrap (powerDown|highTemperature|lowTemperature) (enable|disable)
<3> alarm temperature threshold (high|low) TEMP
<4> clear
<2> clear interface PORTLIST statistics
<1> clear syslog messages
<1> default factory
<3> dhcpServer (enable|disable)
<3> dhcpServer IPIFNAME (enable|disable)
<3> dhcpServer IPIFNAME pool NAME
<3> dhcpServer leaseTime <30-525600>
<3> dhcpServer pool create NAME
<3> dhcpServer pool enter NAME
<3> dhcpSnooping (enable|disable)
<3> dhcpSnooping information circuitID string STRING
<3> dhcpSnooping information circuitID vlanPort
<3> dhcpSnooping information enable
<3> dhcpSnooping information remoteID (clientMac|switchMac)
<3> dhcpSnooping information remoteID string STRING
<3> dhcpSnooping information strategy (drop|keep|replace)
<3> dot1x (reauth|quiet) enable
<3> dot1x enable
<3> dot1x method (eap|chap|pap)
<3> dot1x timer (txPeriod|serverTimeout|overtime) <1-120>
<3> dot1x timer quietPeriod <10-3600>
<3> dot1x timer reauthPeriod <60-7200>
<4> end
<2> erps linkCheck (enable | disable)
<2> erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094> nodeType rplNeighbour rpl (east | west)
<2> erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094> nodeType rplOwner rpl (east | west)
<2> erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094> nodeType transfer
<2> erps ring RINGID clear command
<2> erps ring RINGID force-switch (east | west)
<2> erps ring RINGID guardTime <10-2000>
<2> erps ring RINGID holdoffTime <0-10000>
<2> erps ring RINGID manual-switch (east | west)
<2> erps ring RINGID wtrTime <1-12>
<2> erps subRing <1-255> (eastPort | westPort) PORT protocolVlan <1-4094> nodeType (transfer | rplOwner | rplNeighbour) majorRing <1-255>

```

1.22.show gmrp global

```

GSW# show gmrp global

GMRP Global Configuration
Status       : Disabled
Hold Time    : 100 ms
Join Time     : 200 ms
Leave Time     : 600 ms
LeaveAll Time  : 10000 ms

GSW#

```

1.23.show qos

```

GSW# show qos
mapping Qos mapping
GSW# show qos ma
GSW# show qos mapping
dot1p   Qos dot1p
dscp    Qos dscp
priority Qos priority
GSW# show qos mapping

```

1.24.qos mapping (dot1p, dscp, priority)

```

GSW# config
GSW(config)# qos
mapping Qos mapping
GSW(config)# qos ma
GSW(config)# qos mapping
dot1p   Qos dot1p
dscp    Qos dscp
priority Qos priority
GSW(config)# qos mapping

```

1.25.qos (policy , scheduleMode , weights)

```

priority Qos priority
GSW(config)# int all
GSW(config-portlist)# cu
GSW(config-portlist)# current

% Current Configure Ports: Port1-Port28

GSW(config-portlist)# qos
policy      Qos policy
scheduleMode Qos schedule mode
weights     Qos weights
GSW(config-portlist)# qos

```

1.26.alarm (light , powerdown, relay, snmpTrap, temperature)

```

GSW#
GSW# al
GSW# al
% There is no matched command.
GSW# config
GSW(config)# al
GSW(config)# alarm
    light      Alarm action: light
    powerDown  Power Down alarm setting
    relay      Alarm action: relay
    snmpTrap   Alarm action: snmp trap
    temperature Set temperature setting
GSW(config)# alarm lig
GSW(config)# alarm light
    linkDown   Interface link down alarm
    linkUp     Interface link up alarm
    powerDown  Power down alarm
    highTemperature High temperature alarm
    lowTemperature Low temperature alarm
GSW(config)# alarm light

```

1.27.clear interface PORTLIST statistics

```

<cr>
GSW# config
GSW(config)# cle
GSW(config)# clear
    interface  Interface information
    syslog    Syslog information
<cr>
GSW(config)# clear in
GSW(config)# clear interface
all          cpu          Port1      Port2      Port3      Port4
Port5        Port6        Port7      Port8      Port9      Port10
Port11       Port12       Port13     Port14     Port15     Port16
Port17       Port18       Port19     Port20     Port21     Port22
Port23       Port24       Port25     Port26     Port27     Port28

GSW(config)# cle
GSW(config)# clear
    interface  Interface information
    syslog    Syslog information
<cr>
GSW(config)# clear inter
GSW(config)# clear interface all
    statistics Statistic information
GSW(config)# clear interface all stat
GSW(config)# clear interface all statistics
<cr>
GSW(config)# clear interface all statistics

```

1.28.clear syslog messages

```

GSW(config)# end
GSW# config
GSW(config)# cle
GSW(config)# clear sys
GSW(config)# clear syslog
    messages messages for syslog
GSW(config)# clear syslog me
GSW(config)# clear syslog messages
<cr>
GSW(config)# clear syslog messages

```

1.29.gmrp (holdtime, jointime, leavetime, leavealltime, enable)

```

GSW# config
GSW(config)# gm
GSW(config)# gmrp
    holdTime      GMRP Hold time(100-32760 ms, hold time + 2 <= join time)
    joinTime      GMRP Join time(100-32760 ms, join time + 2 <= leave time)
    leaveTime     GMRP Leave time(100-32760 ms, leave time <= join time)
    leaveAllTime  GMRP LeaveAll time(100-32760 ms)
    enable        Enable a command or function
GSW(config)# gmrp ho
GSW(config)# gmrp holdTime
GSW(config)# gmrp holdTime
<100-32760> GMRP time range(100-32760 ms)
GSW(config)# gmrp holdTime

```

1.30.loopback (detectTime, resumeTime)

```

GSW(config)#
GSW(config)# loo
    loopback loopback configuration
GSW(config)# loo
GSW(config)# loopback
    detectTime period of loopback detect time
    resumeTime restore time
GSW(config)# loopback de
GSW(config)# loopback detectTime
<1-32767> value(2 times must be less than resume time)
GSW(config)# loopback detectTime

```

1.31.loopback (enable, operate, resume, resumeMode)

```

GSW(config-portlist)#
GSW(config-portlist)# cu
GSW(config-portlist)# current

% Current Configure Ports: Port1-Port28

GSW(config-portlist)# loo
GSW(config-portlist)# loopback
enable      operate      resume      resumeMode
GSW(config-portlist)# loopback
enable      Enable a command or function
operate     Execute operation when loop
resume      restore the loop ports by manual
resumeMode  Resume mode
GSW(config-portlist)# loopback en
GSW(config-portlist)# loopback enable
GSW(config-portlist)# loopback enable
<cr>
GSW(config-portlist)# loopback enable

```

1.32.radius-server (host, key, port)

```

GSW(config)# rai
GSW(config)# rai
GSW(config)# ra
GSW(config)# radiusSe
    radiusServer Radius server configuration
GSW(config)# radiusSe
GSW(config)# radiusServer
    host Valid host
    key Shared key between the NAS and the radius server
    port Server's portInteger(1024-65535)
GSW(config)# radiusServer ho
GSW(config)# radiusServer host
GSW(config)# radiusServer host
A.B.C.D IP address, IPv4(A.B.C.D)
GSW(config)# radiusServer host

```

1.33.show alarm

```
GSW# show alarm
light      relay      settings      trap
GSW# show alarm
light      Light alarm configurations
relay      Relay alarm configurations
settings   Alarm devices parameters
trap       Snmp Trap alarm configurations
GSW# show alarm
```

1.34.GSW(config-portlist)# show spanning-tree

```
GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# show spa
GSW(config-portlist)# show spanning-tree
brief      Brief information
detail     Detail information
<cr>
GSW(config-portlist)# show spanning-t
spanning-tree Spanning tree information
GSW(config-portlist)# show spanning-t
GSW(config-portlist)# show spanning-tree
brief      Brief information
detail     Detail information
<cr>
GSW(config-portlist)# show spanning-tree
```

1.35.spanning-tree (forwardDelay , helloTime, maxAge, priority, txLimit)

```
GSW(config)#
GSW(config)#
GSW(config)# spa
GSW(config)# spanning-tree
forwardDelay helloTime maxAge priority txLimit
GSW(config)# spanning-tree
forwardDelay Stp forward delay timer
helloTime Stp hello timer
maxAge Stp bpdu max age
priority Stp bridge priority
txLimit Stp transit limit
GSW(config)# spanning-tree
```

1.36.spanning-tee (disable, enable, pathcost, priority)

```
GSW(config-portlist)#
GSW(config-portlist)# cu
GSW(config-portlist)# current

% Current Configure Ports: Port1-Port28

GSW(config-portlist)# spa
GSW(config-portlist)# spanning-tree
disable Disable a function
enable Enable a command or function
pathCost Stp port path cost
priority Stp port priority
GSW(config-portlist)# spanning-tree
```

1.37.time (date , timeZone)

```

GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)# time
    date      System Date
    timeZone  TimeZone
GSW(config)# t
    time      Set system date and time
    timeout   Access timeout management
GSW(config)# time
    date      System Date
    timeZone  TimeZone
GSW(config)# time

```

1.38.Timeout

```

GSW(config)#
GSW(config)#
GSW(config)# tim
    time      Set system date and time
    timeout   Access timeout management
GSW(config)# timeo
GSW(config)# timeout
    console   Login from console
    telnet    Login from telnet
    ssh       Login from SSH
    web       Login from web
GSW(config)# timeout

```

1.39.user set

```

    web       Login from web
GSW(config)# use
GSW(config)# user
    add       Add a parameter or attribute
    set       Set a parameter or attribute
GSW(config)# user

```

1.40.Current

```

GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# cu
GSW(config-portlist)# curr
    current   Show current Ports in configuration
GSW(config-portlist)# curr
GSW(config-portlist)# current
    <cr>
GSW(config-portlist)# current

%   Current Configure Ports: Port1-Port28
GSW(config-portlist)#

```

1.41.Eee

```

GSW#
GSW#
GSW# config
GSW(config)# e
    end    End current mode and change to enable mode.
    erps   ERPS information
    exit   Exit current mode and down to previous mode
GSW(config)# int all
GSW(config-portlist)# e
    eee    EEEnable EEEDisable EEE
    end    End current mode and change to enable mode.
    exit   Exit current mode and down to previous mode
GSW(config-portlist)# eee
GSW(config-portlist)# eee
    disable
    enable
GSW(config-portlist)# eee

```

1.42.lldp destMac

```

GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# lldp
    destMac LLDP destination mac address
GSW(config-portlist)# lldp de
GSW(config-portlist)# lldp destMac
0180C2-00000E 0180C2-000003 0180C2-000000
GSW(config-portlist)# lldp destMac
AABBCC-DDDEFF Mac address(0180c2-00000e|0180c2-000003|0180c2-000000)
GSW(config-portlist)# lldp destMac

```

1.43.fiberMode (100, 1000, auto)

```

GSW(config-portlist)#
GSW(config-portlist)#
GSW(config-portlist)#
GSW(config-portlist)# cu
GSW(config-portlist)# current
GSW(config-portlist)# current

% Current Configure Ports: Port1-Port28

GSW(config-portlist)# fib
GSW(config-portlist)# fiberMode
    100    Choose 100M fiber module
    1000   Choose 1000M fiber module
    auto   Choose 100M or 1000M fiber module by SFP ability
GSW(config-portlist)# fiberMode

```

1.44.ratelimit (both, ingress, egress)

```

GSW#
GSW#
GSW# config
GSW(config)# int all
GSW(config-portlist)# ra
    rateLimit Qos rate limit
GSW(config-portlist)# ra
GSW(config-portlist)# rateLimit
    both      Both ingress and egress
    ingress   Ingress
    egress    Egress
GSW(config-portlist)# rateLimit

```

1.45.show ratelimit

```

GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# show ra
radius-server Radius server configuration
rateLimit Qos rate limit
GSW(config-portlist)# show ra
radius-server rateLimit
GSW(config-portlist)# show rate
GSW(config-portlist)# show rateLimit
<cr>
GSW(config-portlist)# show rateLimit

```

1.46.show brief

```

GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)#
GSW(config-portlist)#
GSW(config-portlist)# cu
GSW(config-portlist)# current

% Current Configure Ports: Port1-Port28

GSW(config-portlist)# show br
GSW(config-portlist)# show brief

Port Name      : Port1
Port Media     : Copper
Shutdown       : No
Auto Negotiation : Enabled
Force Duplex   : Full
Force Speed    : 1000Mbps
Flow Control   : Off
Link Status    : Down
Link Duplex    : Half
Link Speed     : 10Mbps
-----

```

1.47.show current

```

GSW(config-portlist)# end
GSW# show cu
GSW# config
GSW(config)# show cu
GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# show cu
GSW(config-portlist)# show current

interface Port1
no shutdown
duplex auto
speed auto
flowControl off
eee disable
priority 0
no qos policy
qos scheduleMode sp
qos weights 1 3 5 7 11 25 31 44

```

1.48.show sfp

```

GSW#
GSW#
GSW#
GSW# config
GSW(config)# int all
GSW(config-portlist)# showsf
% There is no matched command.
GSW(config-portlist)# show sf
    sfp Configuration for current objects
GSW(config-portlist)# show sfp
    <cr>

```

1.49.show statistics

```

static route system static route table
GSW# config
GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# show statis
GSW(config-portlist)# show statisti
    statistics Statistic information
GSW(config-portlist)# show statisti
GSW(config-portlist)# show statistics

Port Name           : Port1
Rx Bytes             : 0
Rx Packets           : 0
Rx Unicast Packets   : 0
Rx Multicast Packets : 0
Rx Broadcast Packets : 0
Tx Bytes             : 0
Tx Packets           : 0
Tx Unicast Packets   : 0

```

1.50.show stormFilter

```

GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)# show sto
GSW(config)# int all
GSW(config-portlist)# show sto
GSW(config-portlist)# show stormFilter
GSW(config-portlist)# show stormFilt
    stormFilter Storm filter information
GSW(config-portlist)# show stormFilt
GSW(config-portlist)# show stormFilter

Port Name           : Port1
Unknown Unicast Stream : Disabled
Unknown Multicast Stream : Disabled
Broadcast Stream      : 64Kbps
-----
Port Name           : Port2

```

1.51.show switchport

```

GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)#
GSW(config)# int all
GSW(config-portlist)# show swi
switchport SwitchPort information
GSW(config-portlist)# show swi
GSW(config-portlist)# show switchport
<cr>
GSW(config-portlist)# show switchport

Port VLAN Configuration
-----
Port Name      : Port1
Port PVID      : 1
Switch Mode    : Access
-----
Port Name      : Port2

```

Chapter 2. System Setting Commands

2.1. IP configuration

The IP configuration commands are:

- ip-interface ip0
- show ip interface brief

2.1.1. IP address

command description

- address, configure the switch interface management ip
- no address A.B.C.D/E, means to delete the interface ip
- parameter none

port enabled by default

command mode vlan interface configuration mode example

```

switch(config)# ip-interface ip0
switch(config-ip0)#address 192.168.2.1/24

```

2.1.2.dhcpClient

Command description dhcpClient, configure the management ip (vlan1) of the switch to obtain automatically (the dhcp server in the network will assign a dynamic ip to the vlan 1 interface of the switch)

- no dhcpClient, means to disable management ip dhcp allocation, that is, manual static configuration mode parameter

None

port enabled by default

command mode in vlan interface configuration mode

Example

```

switch(config)# ip-interface ip0
switch(config-ip0)#dhcpClient

```

2.1.3.show ip-interface

Command description View the ip configuration of the interface

parameter none

port enabled by default

Command mode Privileged mode

Example

```
switch#show ip-interface
```

2.1.4. Log configuration

The log configuration commands are:

cache Log to cache file

console Log to console

enable Enable syslog

host Log to remote host

2.1.4.1.syslog enable

command description

syslog enable, open the log server mode

no syslog enable, disable syslog server mode parameter

None

Default

None

command pattern

glob pattern

Example

```
switch(config)#
```

```
switch(config)#no syslog enable
```

2.1.4.2. syslog host

Command description Configure the log server ip address;

parameters

Hostname // is the log server domain name or ip address

default None

command pattern

glob pattern

Example

```
switch(config)#syslog host 192.168.0.1
```

2.1.4.3.syslog console enable level

command description

Configure the log level of the upload log server;

parameters

<0-7> Set a level <0-7>

default

none

command mode

global pattern

Example

switch(config)#syslog console enable level 0

2.1.4.4.syslog cache enable level

command description

Configure the log level of the upload log server;

parameters

<0-7> Set a level <0-7>

default

none

command mode

global pattern

Example

switch(config)#syslog console enable level 0

2.1.5. User Configuration

The user configuration commands are:

user add name

show users

Note: name means user name, up to 18 characters are supported; password means password, up to 18 characters are supported; level <1-4>

2.1.5.1. username name

command description

user add name NAME password PASSWORD level

Add a new user or modify the password of an existing user or modify the administrative authority of an existing user, or modify the password and administrative authority of an existing user;

level indicates the user level, and the legal value is 1-4 (1 is the lowest management authority, 4 is the highest management authority); no user name

NAME means to delete a known user;

parameters

none

default

none

command mode

global pattern

Example

```
switch(config)# user add name test password test level 4
//New user: test, password: test, authority: highest management authority;
switch(config)#no user name test
```

2.1.5.2. show user

Command description View all current user configuration information of the switch;

parameters

None

default

none

command mode

privileged mode

Example

```
switch #show user
switch#show running-config //This command can also view all user accounts
```

2.2. NTP configuration

The ntp configuration commands are:

ntp enable

ntp serverIp

show ntp

2.2.1.ntp

Command description ntp, enable ntp function;

no ntp, disable ntp function;

parameter no default

no command mode

global pattern

Example

```
switch(config)# ntp
switch(config)# no ntp
```

2.2.2.ntp serverIP

command description

ntp serverIp { <ipv4_var> }

Configure ntp server address or domain name

no ntp serverIp , delete an ntp server address parameter

none

default

no command mode

```
switch(config)# ntp serverIp 1.1.1.1
```

2.2.3. show ntp

command description

View ntp server configuration information parameters

no default

no command mode

privileged mode

example

switch(config)#show ntp

Chapter 3. Port Configuration Commands

3.1. Port configuration

The port configuration commands are:

duplex speed

flowcontrol

shutdown

3.1.1. duplex

command description

duplex {auto|full|half}

no duplex

Set the duplex mode of the port. Note: If there is no special requirement, please do not change the port rate mode at will. The mismatch of the negotiation problem will affect the normal communication of the port.

Parameter

Parameter	Parameter Command Mode
auto	Auto-negotiation
full	full duplex
half	half duplex

Default All ports default to auto, and the duplex mode of the optical port is a fixed full duplex mode.

command mode

interface configuration mode

Example

switch(config)# interface Port1

switch(config-if)# duplex full

switch(config-if)# no duplex full

3.1.2.speed

command description

speed {10 | 100 | 1000 | 10000 | auto }, set the port speed no speed

Parameter

Parameter	Parameter Command Mode
10 100 1000 10000	Set the port rate to 10M, 100M, 1000M, 10000Mbps
Auto	Set port speed auto-negotiation.

Default Copper port defaults to auto-negotiation, optical port Gigabit self-adaptation, 10G port is forced to 10000M;

command mode

interface configuration mode

Note: The speed of the optical interface is mandatory 1000M and mandatory 10000M.

Ethernet port can be set to auto, 10M, 100M, 1000M

Example

```
switch(config)# interface Port1
```

```
switch(config-if)# speed 1000
```

3.1.3. flowcontrol

command description

flowcontrol on/off, open and close the port flow control function

parameter none

default

The flow control function is not enabled by default, and the Gigabit optical port does not support flow control configuration

command mode

interface configuration mode

Example

```
switch(config-if)#flowcontrol on
```

```
switch(config-if)# flowcontrol off
```

3.1.4. shutdown

Command description shutdown, close the port

no shutdown, open the port

parameter none

default

The port is enabled by default

command mode

interface configuration mode

Example

```
switch(config-if)# no shutdown
```

3.1.5. POE

Command description

poe mode at,enable 30w

poe mode af,enable 15.4w

no poe mode

show poe interface

Example

```
switch(config-if)# poe mode af
switch(config-if)# poe mode at
switch(config-if)# no poe mode
switch#show poe interface
```

3.2. Port mirroring

All commands

mirror destPort PORT

mirror enable

mirror sourcePortlist add (both|ingress|egress) PORTLIST

mirror sourcePortlist set (both|ingress|egress) PORTLIST

no mirror

no mirror sourcePortlist (both|ingress|egress) PORTLIST

show mirror

Example

```
switch(config)# mirror enable
switch(config)# mirror sourcePortlist add both Port1
switch(config)# show mirror
```

Chapter 4. Advanced Configuration Commands

4.1. Link Aggregation

The configuration commands are:

Global pattern

link-aggregate algorithm ALGORITHM

link-aggregate group <1-8> mode (manual|static)

link-aggregate systemPriority <0-65535>

```
switch(config)# link-aggregate group 1 mode manual
```

```
switch(config)# link-aggregate group 1 mode static
```

Interface mode

lacp (enable|disable)

lacp activeMode (active|passive)

lacp adminKey <0-65535>

lacp priority <0-65535>

link-aggregate group <1-8>

no link-aggregate group

Example

```
switch(config)# interface Port1
switch(config-Port1)# link-aggregate group 1
switch(config-Port1)# lacp enable
```

4.2. VLAN management

The vlan configuration commands are:

Global pattern

vlan VLANLIST

vlan VLANLIST name NAME

no vlan VLANLIST

Interface mode

switchport hybrid (taggedVlan|untaggedVlan) VLANLIST

switchport hybrid (taggedVlan|untaggedVlan) add VLANLIST

switchport hybrid (taggedVlan|untaggedVlan) remove VLANLIST

switchport mode (access|trunk|hybrid)

switchport pvid <1-4094>

switchport trunk permitted Vlan VLANLIST

switchport trunk permitted Vlan add VLANLIST

switchport trunk permitted Vlan all

switchport trunk permitted Vlan remove VLANLIST

View VLAN:

show vlan

show vlan VLANLIST

show vlan all

Example

```
switch(config)# interface Port1
```

```
switch(config-Port1)# switchport trunk permitted Vlan all
```

```
switch(config-Port1)# show vlan
```

4.3.DHCP snooping configuration

DHCP snooping configuration commands are:

Global mode:

dhcpSnooping (enable|disable), turn on and off dhcpSnooping

dhcpSnooping information circuitID string STRING, configure circuitID name

dhcpSnooping information circuitID vlanPort, configure the vlanPort of circuitID

dhcpSnooping information enable, open option 82

dhcpSnooping information remoteID (clientMac|switchMac), configure remoteID mode

dhcpSnooping information remoteID string STRING, configure remoteID as string mode

dhcpSnooping information strategy (drop|keep|replace), configuration

no dhcpSnooping information, turn off option 82

interface mode

dhcpSnooping (circuitID|remoteID) STRING

dhcpSnooping trust

no dhcpSnooping (circuitID|remoteID)

```

no dhcpSnooping trust
check dhcp
  show dhcpSnooping
  show dhcpSnooping binding
Example
  switch(config)# interface Port1
  switch(config-Port1)# dhcpSnooping trust
  switch(config-Port1)# show dhcpSnooping

```

4.4.DHCP Server configuration

DHCP Server configuration commands are:

In global mode:

dhcpServer (enable|disable), enable dhcp service disable dhcp service

dhcpServer IPIFNAME (enable|disable), enable/disable new dhcp address pool
name

dhcpServer IPIFNAME pool NAME, add dhcp address pool name

dhcpServer leaseTime <30-525600>, dhcpServer time

dhcpServer pool create NAME, create pool name

dhcpServer pool enter NAME, modify the pool name

no dhcpServer IPIFNAME pool, delete the pool name of dhcpServer

no dhcpServer leaseTime, delete dhcpServer release time

no dhcpServer pool NAME, delete dhcpServer pool name

show dhcpServer, view DHCP-SERVER

Example:

```
switch# show dhcp-client
```

DHCP Client on primary IP Interface

DHCP Client on primary IP Interface

```

-----
Status          : Success
IP Address       : 192.168.6.101/24
Lease           : 2 Hours 0 Min 0 Sec
Lease Abtained  : 1970-01-01 04:46:29
Lease Expires   : 1970-01-01 06:46:29
switch(config)# show dhcpServer

```

DHCP Server configuration informations

```

-----
DHCP server status      : Disabled
Lease times            : 30 minutes

Name      Status      Bound pool
-----
ip0       Disabled    --

```

Total 1 DHCP server interface listed

switch(config)#

4.5. IGMP Snooping configuration

Global mode:

The commands for igmp-snooping configuration are:

- igmpSnooping enable, open igmpSnooping
- igmpSnooping hostPort agingTime <60-600>, configure host aging time
- igmpSnooping routerPort agingTime <30-300>, configure routing port aging time
- igmpSnooping vlan VLANLIST, configure vlan multicast
- igmpSnooping vlan VLANLIST fastLeave, configure fast leave
- igmpSnooping vlan VLANLIST querier enable, open query time
- igmpSnooping vlan VLANLIST querier interval <30-120>, configure query interval time
- igmpSnooping vlan VLANLIST querier sourceIp A.B.C.D, configure query address
- igmpSnooping vlan VLANLIST staticRouterPort PORTLIST, configure static routing port
- show igmpSnooping, displays igmpSnooping entries.
- show igmpSnooping ipGroups, displays igmpSnooping IP group entries.
- show igmpSnooping ipGroups vlan VLANLIST, display vlan multicast groups
- show igmpSnooping macGroups, display multicast mac groups
- show igmpSnooping macGroups vlan VLANLIST, display mac multicast groups
- show igmpSnooping routerPort, display routing port
- show igmpSnooping routerPort vlan VLANLIST, display routing port vlanlist
- show igmpSnooping vlanConfig VLANLIST, display igmp vlan configuration

4.6. Routing configuration

The commands for routing configuration are:

show route displays the current routing table

- route add default gateway A.B.C.D Add a default route
- route add network A.B.C.D/M gateway A.B.C.D add static route
- route set default gateway A.B.C.D modify the default route
- route set default metric <0-9999> modify the default metric value
- route set network A.B.C.D/M gateway A.B.C.D to modify the static route
- route set network A.B.C.D/M metric <0-9999> Modify the metric value of the static route

Chapter 5. Network Security Commands

5.1. MAC address table

MAC address table display commands are (privileged mode):

```
show fdb agingTime
show fdb linkDownFastAging
    show fdb multicastDynamic
    show fdb multicastDynamic vlan <1-4094>
    show fdb multicast Static
    show fdb multicastStatic vlan <1-4094>
    show fdb multicastTable
    show fdb multicastTable vlan <1-4094>
    show fdb unicast Static
show fdb unicast Static port PORT
show fdb unicastStatic vlan <1-4094>
show fdb unicastStatic vlan <1-4094> port PORT
    show fdb unicastTable (all|dynamic|static)
show fdb unicastTable (all|dynamic|static) port PORT
    show fdb unicastTable (all|dynamic|static) vlan <1-4094>
    show fdb unicastTable (all|dynamic|static) vlan <1-4094> port PORT
```

MAC address table configuration commands include (global mode):

```
fdb agingTime <1-86400>
fdb agingTime disable
fdb clear (dynamic|static|all)
fdb linkDownFastAging enable
fdb multicastStatic mac AABBCC-DDEEFF vlan <1-4094> portlist PORTLIST
fdb unicastStatic mac AABBCC-DDEEFF vlan <1-4094> port PORT
```

MAC address table configuration commands include (interface mode):

```
fdb learnAbility amount <1-8192>
fdb learnAbility disable
```

5.2. Storm suppression

Display commands are (privileged mode):

```
show interface PORTLIST stormFilter
```

The configuration commands are (interface mode):

```
stormFilter (all|unknownUnicast|unknownMulticast|broadcast) rate <16-1000000>
```

5.3. ACL configuration

Display commands are (privileged mode):

```
show acl all
show acl index INDEXLIST
show acl name NAME
```

Global mode configuration command:

```
acl index <0-999>
acl index <0-999> name NAME
  acl index <1000-1999>
acl index <1000-1999> name NAME
acl index <2000-2999>
  acl index <2000-2999> name NAME
acl index <3000-3999>
  acl index <3000-3999> name NAME
acl name NAME
```

5.4. STP configuration

The configuration commands under the interface are:

```
interface PORTLIST spanning-tree (enable | disable)
  interface PORTLIST spanning-tree pathCost <0-2000000000>
  interface PORTLIST spanning-tree pathCost auto
  interface PORTLIST spanning-tree priority <0-240>
```

5.5. Loop protection configuration

The commands for loop protection configuration are (under the interface):

```
interface PORTLIST loopback enable
  interface PORTLIST loopback operate (shutdown|block)
interface PORTLIST loopback resume
  interface PORTLIST loopback resumeMode (automation|manual)
```

5.6. ERPS configuration

ERPS show command has (global mode)

```
show erps linkCheck
  show erps ring RINGID brief
show erps ring RINGID status
show erps ring all brief
show erps ring all status
```

ERPS configuration commands are (global mode):

```
erps linkCheck (enable | disable)
  erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType rplNeighbour rpl (east | west)
  erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType rplOwner rpl (east | west)
  erps majorRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType transfer
  erps ring RINGID clear command
  erps ring RINGID force-switch (east | west)
erps ring RINGID guardTime <10-2000>
erps ring RINGID holdoffTime <0-10000>
```

```

    erps ring RINGID manual-switch (east | west)
    erps ring RINGID wtrTime <1-12>
    erps subRing <1-255> (eastPort | westPort) PORT protocolVlan <1-4094>
nodeType (transfer | rplOwner | rplNeighbour) majorRing <1-255>
    erps subRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType rplNeighbour rpl (east | west)
    erps subRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType rplOwner rpl (east | west)
    erps subRing <1-255> eastPort PORT westPort PORT protocolVlan <1-4094>
nodeType transfer

```

Note: ERPS command configuration is relatively complicated, it is recommended to use web configuration, easy to understand and easy to configure

Chapter 6. Network Management Commands

6.1. LLDP configuration

LLDP show command (global mode):

```

show lldp
    show lldp localSystem
    show lldp remoteSystem

```

The LLDP configuration commands are (global mode):

```

    lldp (enable|disable)
    lldp creditNum <1-100>
    lldp fastInterval <1-3600>
    lldp fastNum <1-8>
    lldp holdMultiplier <2-10>
    lldp reinitDelay <1-10>
    lldp transmitInterval <5-32768>
    lldp trapInterval <5-3600>

```

6.2.802.1X configuration

The 802.1x display commands are (privileged mode):

```

show dot1x global

```

The 802.1x configuration commands are (global mode):

```

    dot1x (reauth|quiet) enable
    dot1x enable
    dot1x method (eap|chap|pap)
    dot1x timer (txPeriod|serverTimeout|overtime) <1-120>
    dot1x timer quietPeriod <10-3600>
    dot1x timer reauthPeriod <60-7200>

```

The 802.1x configuration commands are (interface mode):

```

    dot1x control (auto|forceAuthorized|forceUnauthorized)

```

```
dot1x enable
dot1x mode (portbased|macbased)
dot1x supportHost <1-8>
```

Note: To use the 802.1x function, the stp function of the port needs to be closed

6.3. SNMP configuration

SNMP display commands are (privileged mode):

```
show snmp
show snmp v3 user
```

SNMP configuration commands are (global mode):

```
snmp community add NAME type (read-only|read-write)
snmp community del <3-8>
snmp community set <1-2> NAME
snmp community set <3-8> NAME type (read-only|read-write)
snmp enable
snmp port <1-65535>
snmp syscontact CONTACT
snmp syslocation LOCATION
snmp sysname NAME
snmp trap add host A.B.C.D port <1-65535> community NAME
snmp trap authfailed (enable|disable)
snmp trap defaultCommunity COMMUNITY
snmp trap del <2-4>
snmp trap enable
snmp trap set <1-4> host A.B.C.D port <1-65535> community NAME
snmp v3 user add username USERNAME usertype (read-only|read-write)
securitylevel authNoPriv authtype (md5|sha) authpasswd PASSWORD
snmp v3 user add username USERNAME usertype (read-only|read-write)
securitylevel authPriv authtype (md5|sha) authpasswd PASSWORD privtype (des|aes)
privpasswd PASSWORD
snmp v3 user add username USERNAME usertype (read-only|read-write)
securitylevel noAuthNoPriv
snmp v3 user del all
snmp v3 user del username USERNAME
snmp v3 user set username USERNAME usertype (read-only|read-write)
securitylevel authNoPriv authtype (md5|sha) authpasswd PASSWORD
snmp v3 user set username USERNAME usertype (read-only|read-write)
securitylevel authPriv authtype (md5|sha) authpasswd PASSWORD privtype (des|aes)
privpasswd PASSWORD
snmp v3 user set username USERNAME usertype (read-only|read-write)
securitylevel noAuthNoPriv
```

```
GSW# config
GSW(config)# snmp sysname switch
switch(config)#
```

Chapter 7. System Maintenance Commands

7.1. Device restart

The device restart command is:

```
GSW# reset
Are you sure you want to reset the system? Y/[N]
```

7.2. Save command

```
GSW# write
Are you sure you want to write the running configuration? Y/[N]
Write running configuration...ok
```

```
GSW#
```

7.3. Restore factory settings

The commands to restore the factory configuration are:

```
GSW# default factory
Are you sure you want to restore the default configuration? Y/[N]
```

7.4.ping test

The ping test commands are:

```
ping ip
GSW# ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1): 56 data bytes
ping: sendto: Network is unreachable
```