

GS950 PS

Gigabit Ethernet PoE+ Switches

AT-GS950/10PS

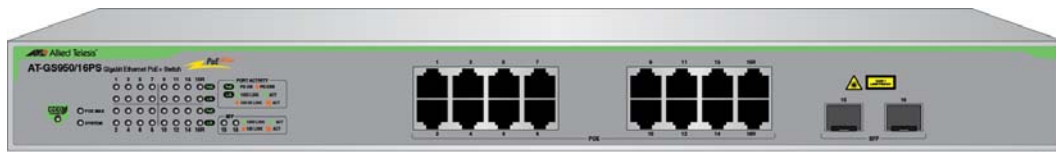
AT-GS950/16PS

AT-GS950/28PS

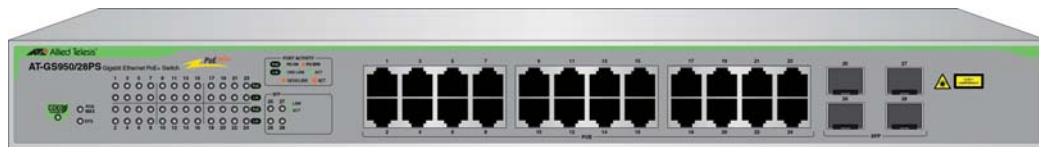
AT-GS950/48PS



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Command Line Interface User's Guide

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Preface

This guide describes the management commands in the command line interface of the GS950 PS Series of Gigabit Ethernet switches. The preface contains the following sections:

- “Safety Symbols Used in this Document” on page 6
- “Contacting Allied Telesis” on page 7

Safety Symbols Used in this Document

This document uses the following conventions.

Note

Notes provide additional information.



Caution

Cautions inform you that performing or omitting a specific action may result in equipment damage or loss of data.



Warning

Warnings inform you that performing or omitting a specific action may result in bodily injury.



Warning

Laser warnings inform you that an eye or skin hazard exists due to the presence of a Class 1 laser device.

Contacting Allied Telesis

If you need assistance with this product, you may contact Allied Telesis technical support by going to the Support & Services section of the Allied Telesis web site at www.alliedtelesis.com/support. You can find links for the following services on this page:

- ❑ 24/7 Online Support — Enter our interactive support center to search for answers to your product questions in our knowledge database, to check support tickets, to learn about RMAs, and to contact Allied Telesis technical experts.
- ❑ USA and EMEA phone support — Select the phone number that best fits your location and customer type.
- ❑ Hardware warranty information — Learn about Allied Telesis warranties and register your product online.
- ❑ Replacement Services — Submit a Return Merchandise Authorization (RMA) request via our interactive support center.
- ❑ Documentation — View the most recent installation and user guides, software release notes, white papers, and data sheets for your products.
- ❑ Software Downloads — Download the latest software releases for your managed products.

For sales or corporate information, go to www.alliedtelesis.com/purchase and select your region.

Chapter 1

Introduction

The sections in this chapter are listed here:

- ❑ “GS950 PS Series of Gigabit Ethernet PoE+ Switches” on page 10
- ❑ “Management Interfaces” on page 11
- ❑ “Management Functions from the Command Line Interface” on page 12
- ❑ “Command Line Interface Modes” on page 13
- ❑ “Command Line Symbols” on page 14
- ❑ “Starting a Command Line Management Session” on page 15
- ❑ “Tips on Using the Command Line Interface” on page 17

GS950 PS Series of Gigabit Ethernet PoE+ Switches

This manual applies to the following GS950 PS Series switches:

- ❑ AT-GS950/10PS Switch
- ❑ AT-GS950/16PS Switch
- ❑ AT-GS950/28PS Switch
- ❑ AT-GS950/48PS Switch

The commands in this manual apply to all the above models.

Note

The commands in this guide only apply to the products listed above and should not be used with any other products.

Management Interfaces

The GS950 PS Series switches have three management interfaces. You access the interfaces over your network from your workstation. The interfaces are listed here:

- ❑ Web browser interface: This interface consists of a series of easy-to-use web browser windows that support non-secure HTTP and secure HTTPS. The default is HTTP. This interface allows you to configure all the parameters and features of the switches.
- ❑ Command line Interface: This interface is accessed with the Telnet protocol and consists of command line commands. With this interface you can configure the IPv4 and IPv6 addresses, as well as SNMP. This interface is explained in this guide. (The switches do not support Secure Shell.)
- ❑ SNMPv1, v2c, and v3: This interface consists of SNMP MIBs and objects. Only experienced technicians should manage devices with SNMP.

Management Functions from the Command Line Interface

You can perform the following management functions from the command line interface:

- Display basic switch information, such as the management software version number and IPv4 and IPv6 addresses.
- Return all parameter settings to their default values.
- Reboot the switch.
- Add local manager accounts or change the passwords of existing accounts.
- Enable or disable the HTTP or HTTPS secure server.
- Configure IPv4 and IPv6 management addresses.
- Download new management software to the switch.
- Upload or download configuration files.
- Configure SNMPv1, v2c, and v3.
- Ping other network devices.

All other management functions for the switches have to be performed from the web browser management interface or with SNMP. For instructions for web browser management, refer to the appropriate GS950 PS Series Web Browser User Guide.

Command Line Interface Modes

The command line interface has two levels or modes with different commands. The first mode is called the Privileged Exec mode. This mode is displayed first when you log on the command line interface to manage the switch. The command line prompt for this mode consists of the switch's model name and the “#” symbol. Here is the prompt for the Privileged Exec mode for the AT-GS950/28PS Switch:

```
ATGS950_28PS#
```

The Privileged Exec mode has commands that let you reset the switch, restore the default values on the switch, display system information, and more.

The second mode is called the Global Configuration mode. The prompt for this mode consists of the switch's model name and “#(config)”. Here is the prompt for the Global Configuration mode for the AT-GS950/28PS Switch:

```
ATGS950_28PS#(confi g)
```

With the commands in the Global Configuration mode you can configure IPv4 and IPv6 management addresses and SNMP community strings.

To move from the Privilege Exec mode to the Global Configuration mode, you enter the Configure Terminal command, shown here:

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)#
```

To return to the Privilege Exec mode from the Global Configuration mode, you enter the END command, shown here:

```
ATGS950_28PS(confi g)# end  
ATGS950_28PS#
```

Note

The command line prompts in the examples in this guide are for the AT-GS950/28PS Switch. You will see different prompts for other switch models.

Command Line Symbols

Table 1 defines the symbols used in the command descriptions in this guide.

Table 1. Command Symbols

Symbol	Description
keyword	<p>Keywords are represented in lowercase fix-width font. You have to enter keywords as shown in the command descriptions. Here is an example of a command with two keywords:</p> <pre>show swi tch</pre>
[]	<p>Brackets enclose optional parameters or variables. This command has the optional “oidmask” parameter.</p> <pre>snmp-server vi ewtree <i>vi ewname</i> subtreeoi d <i>subtreeoi d</i> [<i>oi dmask oi dmask</i>] i ncl uded excl uded</pre>
<i>italics</i>	<p>Italics represent variables. You have to supply values for variables in the commands. In the following command, which is used to add new local manager accounts to the switch, you have to provide a username and password for a new account.</p> <pre>confi g account <i>username</i> password <i>password</i></pre>
	<p>Vertical bars separate two or more keywords or variables from which you must choose. You can choose only one option. In the following command, which is used to upload configuration files from switches to a TFTP server, you can enter either an IPv4 or IPv6 address of a TFTP server.</p> <pre>upl oad cfg_toTFTP <i>ip v4add</i> <i>ip v6addr</i> <i>path_ fi lename</i></pre>

Starting a Command Line Management Session

Please review the following information before starting a command line management session with the switch:

- ❑ The switch comes with the default IPv4 address 192.168.1.1 and subnet mask 255.255.255.0. You have to use the default address to establish the initial management session.
- ❑ The initial management session requires changing the IP address of your workstation to the same subnet as the switch's default address. For example, you might change the workstation's IP address to 192.168.1.4. Refer to the computer's documentation of instructions on how to set its IP address.
- ❑ The command line interface requires the Telnet protocol. The switch does not support Secure Shell.
- ❑ If you or another technician has already assigned the switch an IPv4 or IPv6 address, use that address to establish your management sessions with the unit.
- ❑ The switch has IPv4 BOOTP and DHCP clients as well as an IPv6 DHCP client, but the clients are initially disabled. You can enable them during the initial management session if you want to assign the switch an IP address configuration from a BOOTP or DCP server on your network.

To start a command line management session with the switch, perform the following procedure:

1. Start the Telnet protocol client on your workstation.
2. Enter the IP address of the switch in the Telnet client. Use the default address 192.168.1.1 if this is the initial management session.

Your Telnet client should display the prompt in Figure 1.

```

AT-GS950/28PS Gi gabi t Ethernet WebSmart Swi tch

                          Command Line Interface
                          Fi rmware Versi on: AT-S126 V1.0.0 (1.00.015)
                          Copyri ght (C) 2015 All ied Telesi s. All ri ghts reserved.

AT-GS950/28PS l ogi n:

```

Figure 1. Login Prompt for the Command Line Interface

3. Enter the manager name. The default name is "manager". The name is case sensitive.

4. When prompted for the password, enter the account's password. The default password is "friend". The password characters are not displayed on the screen. The password is case sensitive.

The switch displays the command line prompt for the Privileged Exec mode, shown here:

```
ATGS950_28PS#
```

You are now logged on the command line interface in the switch. Refer to the rest of this manual for command descriptions.

Tips on Using the Command Line Interface

Here are a couple tips for entering commands in the command line interface:

- ❑ You can use the “?” question mark key to display mode commands, keywords, and variables. For instructions, refer to “? (Question Mark Key)” on page 20.
- ❑ You can use the tab key to display lists of commands or to complete keywords. For example, typing “C” in the Privileged Exec mode and pressing the tab key displays all the commands that start with “C”. Typing “CL” and pressing the tab clear completes the keyword “CLEAR”.
- ❑ You do not have to type all the letters of a keyword, but only enough to distinguish it from similar keywords and commands. For example, you can abbreviate the CLEAR SCREEN command to “CS”.
- ❑ To end your management session, enter the LOGOUT command in the Privileged Exec mode. For instructions, refer to “LOGOUT” on page 25.

Chapter 2

Basic Management Commands

This chapter describes basic management commands. The commands are listed here:

- ❑ “? (Question Mark Key)” on page 20
- ❑ “CLEAR SCREEN” on page 21
- ❑ “CONFIG ACCOUNT” on page 22
- ❑ “CONFIGURE TERMINAL” on page 23
- ❑ “END” on page 24
- ❑ “LOGOUT” on page 25
- ❑ “REBOOT” on page 26
- ❑ “RESET CONFIG” on page 27
- ❑ “RESET CONFIG EXCEPT IP” on page 28
- ❑ “SAVE” on page 29
- ❑ “SHOW SWITCH” on page 30

? (Question Mark Key)

Syntax

?

Parameters

None.

Modes

Privileged Exec and Global Configuration modes

Description

Use the question mark key to display on-line help messages. Typing the key at different points in a command displays different messages:

- Typing “?” at a command line prompt displays all the keywords in the current mode.
- Typing “?” after a keyword displays the available parameters.

Note

You must type a space between a keyword and the question mark. Otherwise, the on-line help returns the previous keyword.

- Typing “?” after a keyword or parameter that has a variable displays information about the value.

Examples

This example displays all the keywords in the Global Configuration mode:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# ?
```

This example displays the parameters for the SHOW keyword in the Privileged Exec mode:

```
ATGS950_28PS# show ?
```

This example displays information about the variable for the USERNAME parameter in the CONFIG ACCOUNT command in the Global Configuration mode:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config account ?
```

CLEAR SCREEN

Syntax

clear screen

Parameters

None.

Modes

Privileged Exec mode

Description

Use this command to clear the screen.

Example

```
ATGS950_28PS# clear screen
```

CONFIG ACCOUNT

Syntax

```
confi g account username password password
```

Parameters

username

Specifies a name for a new manager account. It can be up to twelve alphanumeric characters and is case sensitive. Spaces and special characters are not allowed.

password

Specifies a password for a manager account. It can be up to twelve alphanumeric characters and is case-sensitive. Spaces and special characters are not allowed.

Mode

Global Configuration mode

Description

Use this command to add new local manager accounts to the switch or to change the passwords of current accounts.

Examples

This example adds a manager account with the username Allen and password "laf238pl":

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)# confi g account Al l en password  
l af238pl
```

This example changes the password to "SunDrive11" for the default manager account:

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)# confi g account manager password  
SunDri ve11
```

CONFIGURE TERMINAL

Syntax

configure terminal

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to move from the Privileged Exec mode to the Global Configuration mode.

Example

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)#
```

END

Syntax

end

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to return to the Privileged Exec mode from the Global Configuration mode.

Example

```
ATGS950_28PS(config)# end
ATGS950_28PS#
```


LOGOUT

Syntax

Logout

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to end a command line management session.

Example

This example shows the sequence of commands to logging out from the Global Configuration mode:

```
ATGS950_28PS(config)# end
ATGS950_28PS# Logout
```

REBOOT

Syntax

reboot

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to reset the switch. You might reset the unit if it is experiencing a problem.

Note

This command does not display a confirmation prompt.



Caution

The switch does not forward network traffic while it initializes its management software. Some network traffic may be lost. The reset takes between 30 to 60 seconds, depending on the number and complexity of the commands in the boot configuration file.

Note

The switch discards configuration changes that have not been saved in its active boot configuration file. To save your changes, enter the SAVE command before resetting the switch. For instructions, refer to “SAVE” on page 29.

To resume managing the switch, wait for the switch to initialize the management software and then start a new management session.

Example

```
ATGS950_28PS# reboot
```

RESET CONFIG

Syntax

```
reset confi g
```

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to restore the default settings to all the parameters on the switch, including the IPv4 and IPv6 addresses. To retain the IP addresses, refer to “RESET CONFIG EXCEPT IP” on page 28.



Caution

This command resets the switch. The device will not forward network traffic while it initializes its management software. Some network traffic may be lost.

Note

This command does not display a confirmation prompt.

To resume managing the switch, start a new management session, using the default address 192.168.1.1.

Examples

This example returns all the parameter settings, including the IP addresses, to their default settings:

```
ATGS950_28PS# reset confi g
```

RESET CONFIG EXCEPT IP

Syntax

```
reset config except ip
```

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to restore the default settings to all the parameters on the switch, except for the IPv4 and IPv6 addresses.



Caution

This command resets the switch. The device will not forward network traffic while it initializes its management software. Some network traffic may be lost.

Note

This command does not display a confirmation prompt.

To resume managing the switch, start a new management session.

Example

This example returns all parameter settings, excluding the IP addresses, to their default settings:

```
ATGS950_28PS# reset config except ip
```

SAVE

Syntax

save

Parameters

None.

Mode

Privileged Exec mode

Description

Use this command to update the configuration file with the switch's current configuration, for permanent storage. When you enter the command, the switch copies its parameter settings into the configuration file. The switch saves only those parameters that are not at their default settings.

Note

Parameter changes that are not saved in the boot configuration file are discarded when the switch is powered off or reset.

Example

```
ATGS950_28PS# save
```

SHOW SWITCH

Syntax

show swi tch

Parameters

None.

Modes

Privileged Exec and Global Configuration modes

Description

Use this command to view basic switch information. An example is shown in Figure 2.

```
System Up For      : 2 day(s), 3 hr(s), 6 min(s), 2 sec(s)
Runtime Image     : AT-S126 V1.0.0 (1.00.015)
Boot Loader       : 1.01.002
DRAM Size         : 128 MB
Flash Size        : 16 MB
System Name       :
System Location   :
System Contact    :
MAC Address       : 00:01:02:03:04:05
IP Address        : 192.168.1.1
Subnet Mask       : 255.255.255.0
Default Gateway   : 0.0.0.0
IPv6 Unicast Address/Prefix Length :
IPv6 Dynamic Gateway :
Link Local Address/Prefix Length :
IPv4 DHCP Client Mode : Di sabl ed
IPv4 BOOTP Client Mode : Di sabl ed
IPv6 DHCP Client Mode : Di sabl ed
```

Figure 2. SHOW SWITCH Command

Example

```
ATGS950_28PS# show swi tch
```

Chapter 3

IPv4 Management Address Commands

The chapter contains the commands for assigning an IPv4 management address to the switch. The commands are listed here:

- ❑ “CONFIG IPIF SYSTEM” on page 32
- ❑ “CONFIG IPIF SYSTEM BOOTP” on page 34
- ❑ “CONFIG IPIF SYSTEM DHCP” on page 35
- ❑ “PING” on page 36
- ❑ “SHOW IPIF” on page 37

CONFIG IPIF SYSTEM

Syntax

```
config ipif system ipaddress ipaddress subnet_mask  
gateway gw_ipaddress
```

Parameters

ipaddress

Specifies an IPv4 management address for the switch. The address is specified in this format:

nnn.nnn.nnn.nnn

Where NNN is a decimal number from 0 to 255. The numbers must be separated by periods.

subnet_mask

Specifies the subnet mask for the address. The mask is a decimal number that represents the number of bits, from left to right, that represent the network portion of the address. For example, the IPv4 decimal masks 16 and 24 are equivalent to masks 255.255.0.0 and 255.255.255.0, respectively.

gw_ipaddress

Specifies an IPv4 default gateway address. Enter 0.0.0.0 to omit a gateway address.

Mode

Global Configuration mode

Description

Use this command to manually assign the switch an IPv4 management address. For instructions on how to assign an IPv4 address from a BOOTP or DHCP server, refer to “CONFIG IPIF SYSTEM BOOTP” on page 34 or “CONFIG IPIF SYSTEM DHCP” on page 35.

The switch can have only one IPv4 management address.

Confirmation Command

“SHOW IPIF” on page 37

Example

This example assigns the switch the IPv4 management address 142.35.78.21, subnet mask 255.255.255.0, and default gateway 142.35.78.201:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config system ip interface address
142.35.78.21 255.255.255.0 gateway 142.35.78.201
```

This example assigns the switch the IPv4 management address 136.122.89.14, subnet mask 255.255.255.0, and default gateway 0.0.0.0:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config system ip interface address
136.122.89.14 255.255.255.0 gateway 0.0.0.0
```

CONFIG IPIF SYSTEM BOOTP

Syntax

```
confi g i pi f system bootp
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to activate the BOOTP client so that the switch receives an IPv4 management address from a BOOTP server on your network. The switch automatically queries the network for a BOOTP server when you activate the client or whenever you reset or power cycle the switch.

The switch can have only one IPv4 management address.

To manually assign the switch an IPv4 address, refer to “CONFIG IPIF SYSTEM” on page 32.

The switch reverts to its default IP address, 192.168.1.1, if it does not receive a response from the BOOTP server after one minute.

Confirmation Command

“SHOW IPIF” on page 37

Example

This example activates the BOOTP client on the switch:

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)# confi g i pi f system bootp
```

CONFIG IPIF SYSTEM DHCP

Syntax

```
config ipif system dhcp
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to activate the DHCP client so that the switch receives an IPv4 management address from a DHCP server on your network. The switch automatically queries the network for a DHCP server when you activate the client or whenever you reset or power cycle the switch.

The switch can have only one IPv4 management address.

To manually assign the switch an IPv4 address, refer to “CONFIG IPIF SYSTEM” on page 32.

The switch reverts to its default IP address, 192.168.1.1, if it does not receive a response from the DHCP server after one minute.

Confirmation Command

“SHOW IPIF” on page 37

Example

This example activates the DHCP client on the switch:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config ipif system dhcp
```

PING

Syntax

```
ping ip_addr
```

Parameter

ip_addr

Specifies the IPv4 address of a network device.

Modes

Privileged Exec mode

Description

Use this command to have the switch send ICMP Echo Requests to network devices with IPv4 addresses. You might use the command to determine whether there is an active link between the switch and another network device, such as a RADIUS server or a Telnet client, to troubleshoot communication problems. You can ping only one device at a time.

Note

The switch must have an IPv4 management IP address to ping IPv4 network devices.

Note

The device being pinged must be a member of the Default VLAN and within the same local area network as the switch. The device must be communicating with the switch through a port that is an untagged or a tagged member of the Default VLAN.

Example

This command instructs the switch to ping a network device with the IPv4 address 149.122.14.15:

```
ATGS950_28PS# ping 149. 122. 14. 15
```

The results of the ping are displayed on the screen.

SHOW IPIF

Syntax

```
show i pi f
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the IPv4 and IPv6 addresses of the switch. Figure 3 is an example of the information.

```

Internet Address      : 192.168.1.1
Subnet Mask           : 255.255.255.0
Gateway Address      : 0.0.0.0
IPv6 State            : Disabled
IPv6 Unicast Address/Prefix Length :
IPv6 Static Gateway   :
IPv6 Dynamic Gateway  :
Automatic Link Local Address : Disabled
Link Local Address/Prefix Length :

```

Figure 3. SHOW IPIF Command

Example

```
ATGS950_28PS# show i pi f
```


Chapter 4

IPv6 Management Address Commands

The chapter contains the commands for assigning an IPv6 management address to the switch. The commands are listed here:

- ❑ “CONFIG IPIF SYSTEM DHCPV6_CLIENT” on page 40
- ❑ “CONFIG IPIF SYSTEM IPV6” on page 42
- ❑ “IPV6 ADDRESS LINK-LOCAL” on page 44
- ❑ “IPV6 AUTOMATIC LINK-LOCAL ADDRESS” on page 45
- ❑ “IPV6 ENABLE” on page 46
- ❑ “IPV6 GATEWAY” on page 47
- ❑ “NO IPV6 ENABLE” on page 48
- ❑ “PING6” on page 49

CONFIG IPIF SYSTEM DHCPV6_CLIENT

Syntax

```
confi g i pi f system dhcpv6_cl i ent enabl e|di sabl e
```

Parameters

enabl e

Enables the IPv6 DHCP client.

di sabl e

Disables the IPv6 DHCP client. This is the default setting.

Mode

Global Configuration mode

Description

Use this command to enable or disable the IPv6 DHCP client on the switch. You can use the client to assign the switch an IPv6 management address from an IPv6 DHCP server on your network. The switch automatically queries the network for a IPv6 DHCP server when you enable the client or whenever you reset or power cycle the switch.

The switch can have only one IPv6 management address.

To manually assign the switch an IPv6 address, refer to “CONFIG IPIF SYSTEM IPV6” on page 42.

You must enable IPv6 address processing on the switch before activating the IPv6 DHCP client. For instructions, refer to “IPV6 ENABLE” on page 46.

The switch reverts to its default of no IPv6 address if it does not receive a response from the DHCP server after one minute.

Confirmation Command

“SHOW IPIF” on page 37

Example

This example enables the IPv6 DHCP address client on the switch:


```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config ip system dhcpv6_client
enable
```

This example disables the client:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config ip system dhcpv6_client
disable
```

CONFIG IPIF SYSTEM IPV6

Syntax

```
confi g i pi f system i pv6 i pv6address i paddress  
subnet_mask
```

Parameters

i paddress

Specifies an IPv6 management address for the switch. The address is entered in this format:

```
nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn
```

Where N is a hexadecimal digit from 0 to F. The eight groups of digits have to be separated by colons. Groups where all four digits are '0' can be omitted. Leading '0's in groups can also be omitted. For example, the following IPv6 addresses are equivalent:

```
3710:421e:09a8:0000:0000:0000:00a4:1c50
```

```
3710:421e:9a8::a4:1c50
```

subnet_mask

Specifies the subnet mask of the address. The mask is a decimal number from 1 to 128 that represents the number of bits, from left to right, that constitute the network portion of the address. For example, an address whose network designator consists of the first eight bytes would have a mask of 64 bits.

Mode

Global Configuration mode

Description

Use this command to manually assign the switch an IPv6 management address. You must enable IPv6 address processing on the switch before assigning it an IPv6 address. For instructions, refer to "IPV6 ENABLE" on page 46.

The switch can have only one IPv6 management address.

Confirmation Command

"SHOW IPIF" on page 37

Example

This example assigns the switch the IPv6 management address 3710:17a9:11::190:a1d4 with mask 64:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# config ipif system ipv6
ip6address 3710:17a9:11::190:a1d4 64
```

IPV6 ADDRESS LINK-LOCAL

Syntax

```
ipv6 address ipv6_address link-local
```

Parameter

ipv6_address

Specifies an IPv6 local link address for the switch. The address is entered in this format:

```
nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn
```

Where N is a hexadecimal digit from 0 to F. The eight groups of digits have to be separated by colons. Groups where all four digits are '0' can be omitted. Leading '0's in groups can also be omitted. For example, the following IPv6 addresses are equivalent:

```
3710:421e:09a8:0000:0000:0000:00a4:1c50
```

```
3710:421e:9a8::a4:1c50
```

Mode

Global Configuration Mode

Description

Use this command to assign an IPv6 local link address to the switch. The device can have only one IPv6 local link address.

You must enable IPv6 address processing on the switch before assigning an IPv6 local link address. For instructions, refer to "IPV6 ENABLE" on page 46.

Confirmation Command

"SHOW IPIF" on page 37

Example

This example assigns the switch the IPv6 local link address 3710:17a9:11::190:a1d4:

```
ATGS950_28PS# ipv6 address 3710:17a9:11::190:a1d4  
link-local
```

IPV6 AUTOMATIC LINK-LOCAL ADDRESS

Syntax

```
ipv6 automatic link-local address enable|disable
```

Parameter

enable

Automatically assigns an IPv6 link-local address to the switch.

disable

Disables the automatic assignment of an IPv6 link-local address.

Mode

Global Configuration Mode

Description

Use this command to have the switch automatically assign itself an IPv6 local link address. To manually set the address, refer to "IPV6 ADDRESS LINK-LOCAL" on page 44.

You must enable IPv6 address processing on the switch before using this command. For instructions, refer to "IPV6 ENABLE" on page 46.

Confirmation Command

"SHOW IPIF" on page 37

Example

This example automatically assigns an IPv6 local link address to the switch:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# ipv6 automatic link-local
address enable
```

This example disables the automatic assignment of an IPv6 local link address:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# ipv6 automatic link-local
address disable
```

IPV6 ENABLE

Syntax

```
i pv6 enabl e
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to enable IPv6 address processing on the switch. You must enable IPv6 address processing to assign the switch an IPv6 address configuration. To disable IPv6 address processing, refer to “NO IPV6 ENABLE” on page 48.

Confirmation Command

“SHOW IPIF” on page 37

Example

This command enables IPv6 address processing:

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)# i pv6 enabl e
```

IPV6 GATEWAY

Syntax

```
ipv6 gateway ipv6_address
```

Parameters

ipv6_address

Specifies an IPv6 gateway address for the switch. The address is entered in this format:

```
nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn
```

Where N is a hexadecimal digit from 0 to F. The eight groups of digits have to be separated by colons. Groups where all four digits are '0' can be omitted. Leading '0's in groups can also be omitted. For example, the following IPv6 addresses are equivalent:

```
3710:421e:09a8:0000:0000:0000:00a4:1c50
```

```
3710:421e:9a8::a4:1c50
```

Mode

Global Configuration mode

Description

Use this command to manually assign an IPv6 gateway address to the switch. The gateway address must be in the same subnet as the switch's IPv6 management address and must be assigned after the switch has a management address. You must enable IPv6 address processing to assign the switch a gateway address. For instructions, refer to "IPV6 ENABLE" on page 46.

Confirmation Command

"SHOW IPIF" on page 37

Example

This example assigns the switch the IPv6 gateway address 3710:17a9:11::190:a1d4:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# ipv6 gateway
3710:17a9:11::190:a1d4
```

NO IPV6 ENABLE

Syntax

```
no i pv6 enabl e
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to disable IPv6 address processing on the switch. This is the default setting. The switch retains its IPv6 address configuration, but it stops processing IPv6 management functions. You cannot modify the IPv6 address configuration on the switch when IPv6 processing is disabled. To enable IPv6 address processing, refer to “IPv6 ENABLE” on page 46.

Confirmation Command

“SHOW IPIF” on page 37

Example

This command disables IPv6 address processing:

```
ATGS950_28PS# confi gure termi nal  
ATGS950_28PS(confi g)# no i pv6 enabl e
```


PING6

Syntax

```
ping6 ipv6addr
```

Parameters

ipv6addr

Specifies the IPv6 address of a network device.

Modes

Privileged Exec mode

Description

Use this command to have the switch send ICMP Echo Requests to network devices with IPv6 addresses. You might use the command to determine whether there is an active link between the switch and another network device, such as a RADIUS server or a Telnet client, to troubleshoot communication problems. You can ping only one device at a time.

Note

The switch must have an IPv6 management IP address to ping IPv6 network devices.

Note

The device being pinged must be a member of the Default VLAN and within the same local area network as the switch. The device must be communicating with the switch through a port that is an untagged or a tagged member of the Default VLAN.

Example

This command instructs the switch to ping a network device with the IPv6 address 3710:17a9:11::190:a1d4:

```
ATGS950_28PS# ping6 3710:17a9:11::190:a1d4
```

The results of the ping are displayed on the screen.

Chapter 5

HTTP and HTTPS Commands

This chapter describes the HTTP and HTTPS server commands. The commands are listed here:

- ❑ “IP HTTP SECURE-SERVER” on page 52
- ❑ “NO IP HTTP SECURE-SERVER” on page 53
- ❑ “SHOW IP HTTP SECURE-SERVER STATUS” on page 54

IP HTTP SECURE-SERVER

Syntax

```
ip http secure-server
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to activate the HTTPS server to manage the switch with secure web browser management sessions. Enabling the HTTPS server disables the HTTP server.

Confirmation Command

“SHOW IP HTTP SECURE-SERVER STATUS” on page 54

Example

```
ATGS950_28PS# configure terminal  
ATGS950_28PS# ip http secure-server
```

NO IP HTTP SECURE-SERVER

Syntax

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

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to disable the HTTPS server and enable the HTTP server.

Confirmation Command

“SHOW IP HTTP SECURE-SERVER STATUS” on page 54

Example

```
ATGS950_28PS# configure terminal  
ATGS950_28PS# no ip http secure-server
```

SHOW IP HTTP SECURE-SERVER STATUS

Syntax

```
show ip http secure-server status
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the status of the HTTPS server.

Example

```
ATGS950_28PS# show ip http secure-server status
```

Chapter 6

File Transfer Commands

This chapter describes commands for uploading or downloading files to the switch. The commands are listed here:

- ❑ “DOWNLOAD” on page 56
- ❑ “UPLOAD” on page 58

DOWNLOAD

Syntax

```
download cfg_toTFTP|firmware ipaddr|ipv6addr  
path_filename
```

Parameters

cfg_toTFTP

Downloads a configuration file to the switch.

firmware

Downloads new management software to the switch.

ipadd

Specifies the IPv4 address of a TFTP server on your network.

ipv6add

Specifies the IPv6 address of a TFTP server on your network.

path_filename

Specifies the path and filename of the file on the TFTP server to download to the switch. The file can be a new version of the management software or a boot configuration file. The filename extensions are “.hex” for management software and “.cfg” for boot configuration files. The path and filename cannot contain spaces. You can download only one file at a time.

Mode

Privileged Exec mode

Description

Use this command to download new management software or a boot configuration file to the switch from a TFTP server on your network.

Note

The switch must have an IPv4 address to access a TFTP server with an IPv4 address. The switch must have an IPv6 address to access a TFTP server with an IPv6 address.

**Caution**

Downloading management software or a configuration file causes the switch to reset. The switch does not forward network traffic while writing the new file to flash memory and initializing its software. Do not interrupt the process by resetting or power cycling the switch. Some network traffic may be lost.

Examples

This example downloads the new management software file "ATGS950_28PS_v1.00.015.hex" to the switch from a TFTP server with the IP address 149.22.121.45:

```
ATGS950_28PS# download firmware 149.22.121.45
ATGS950_28PS_v1.00.015.hex
```

This example downloads the boot configuration file "sw12a.cfg" to the switch from a TFTP server with the IP address 112.141.72.11:

```
ATGS950_28PS# download cfg_toTFTP 112.141.72.11
sw12a.cfg
```

UPLOAD

Syntax

```
upload cfg_toTFTP ipaddr|ipv6addr path_filename
```

Parameters

ipaddr

Specifies the IPv4 address of a TFTP server on your network.

ipv6addr

Specifies the IPv6 address of a TFTP server on your network.

path_filename

Specifies the path and filename where the TFTP server is to store the configuration file. The filename cannot contain spaces and must include the extension “.cfg”. You can specify only one path and filename.

Mode

Privileged Exec mode

Description

Use this command to upload the configuration file from the switch to a TFTP server on your network.

Note

The switch must have an IPv4 address to access a TFTP server with an IPv4 address. The switch must have an IPv6 address to access a TFTP server with an IPv6 address.

Example

This example uploads the switch’s configuration file and stores it as “west_unit.cfg” on a TFTP server with the IP address 149.22.121.45:

```
ATGS950_28PS# upload cfg_totftp 149.22.121.45  
west_unit.cfg
```

Chapter 7

SNMP Commands

This chapter describes the SNMPv1, v2c, and v3 commands. The commands are listed here:

- ❑ “NO SNMP-SERVER COMMUNITY” on page 60
- ❑ “NO SNMP-SERVER ENGINEID” on page 61
- ❑ “NO SNMP-SERVER GROUP” on page 62
- ❑ “NO SNMP-SERVER HOST” on page 64
- ❑ “NO SNMP-SERVER TRAPS ENABLE” on page 65
- ❑ “NO SNMP-SERVER USER” on page 66
- ❑ “NO SNMP-SERVER VIEWTREE” on page 67
- ❑ “SHOW SNMP” on page 68
- ❑ “SHOW SNMP COMMUNITY” on page 69
- ❑ “SHOW SNMP ENGINEID” on page 70
- ❑ “SHOW SNMP GROUP” on page 71
- ❑ “SHOW SNMP-SERVER TRAPS-MANAGEMENT” on page 72
- ❑ “SHOW SNMP USER” on page 73
- ❑ “SHOW SNMP VIEWTREE” on page 74
- ❑ “SNMP-SERVER COMMUNITY” on page 75
- ❑ “SNMP-SERVER ENGINEID” on page 76
- ❑ “SNMP-SERVER GROUP” on page 77
- ❑ “SNMP-SERVER HOST” on page 79
- ❑ “SNMP-SERVER TRAPS ENABLE” on page 81
- ❑ “SNMP-SERVER USER” on page 82
- ❑ “SNMP-SERVER VIEWTREE” on page 84

NO SNMP-SERVER COMMUNITY

Syntax

```
no snmp-server community community_name
```

Parameter

community_name

Specifies a community name to be deleted. The name is case sensitive.

Mode

Global Configuration mode

Description

Use this command to delete community strings from the switch. You may delete only one community string at a time.

Example

This example deletes the community string sw2_Bldg3a:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# no snmp-server community
sw2_Bldg3a
```

NO SNMP-SERVER ENGINEID

Syntax

```
no snmp-server engineid
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to return the SNMPv3 engine ID to the default value.

Example

This example returns the SNMPv3 engine ID to the default value:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# no snmp-server engineid
```

NO SNMP-SERVER GROUP

Syntax

```
no snmp-server group groupname v1 | v2c | v3  
auth | noauth | priv
```

Parameters

groupname

Specifies a name of a group to be deleted. The name is case sensitive.

v1 | v2c | v3

Specifies the SNMP version. The versions are listed here:

v1: SNMPv1

v2c: SNMPv2c

v3: SNMPv3

auth | noauth | priv

Specifies the minimum security level of the group. The parameter applies only to SNMPv3. The options are listed here:

auth: Authentication, but no privacy.

noauth: No authentication or privacy.

priv: Authentication and privacy.

Mode

Global Configuration Mode

Description

Use this command to delete SNMPv3 groups.

Example

This example deletes a group called “sta5west” of SNMPv2c:

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# no snmp-server group sta5west  
v2c
```

This example deletes a group called “sta5west” of SNMPv3, with a

minimum security level of privacy:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# no snmp-server group sta5west v3
priv
```

NO SNMP-SERVER HOST

Syntax

```
no snmp-server host ipv4_address|ipv6_address
```

Parameters

ipv4_address

Specifies the IPv4 address of a trap receiver.

ipv6_addr

Specifies the IPv6 address of a trap receiver.

Mode

Global Configuration mode

Description

Use this command to delete IP addresses of trap receivers. You may delete only one IP address at a time.

Example

This example deletes the IPv4 address 149.44.12.44 of a trap receiver:

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# no snmp-server host 149.44.12.44
```


NO SNMP-SERVER TRAPS ENABLE

Syntax

```
no snmp-server traps enable
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to disable the transmission of SNMP traps.

Example

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# no snmp-server traps enable
```

NO SNMP-SERVER USER

Syntax

```
no snmp-server user username v1|v2c|v3
```

Parameters

username

Specifies a user name to be deleted. The name is case sensitive.

v1|v2c|v3

Specifies the SNMP version of the user. The options are listed here:

v1: SNMPv1

v2c: SNMPv2c

v3: SNMPv3

Mode

Global Configuration mode

Description

Use this command to delete SNMP users.

Example

This example deletes the user Smith for SNMPv2c:

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# no snmp-server user Smith v2c
```

NO SNMP-SERVER VIEWTREE

Syntax

```
no snmp-server viewtree viewtree subtreeoid  
subtreeoid
```

Parameters

viewtree

Specifies a name of a view to be deleted. The name is case sensitive.

subtreeoid

Specifies the OID of the subtree of the view to be deleted.

Mode

Global Configuration mode

Description

Use this command to delete SNMPv3 views from the switch.

Confirmation Command

“SHOW SNMP VIEWTREE” on page 74

Example

This example deletes the view All, which has the OID 1.3.6.1:

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# snmp-server viewtree All  
subtreeoid 1.3.6.1
```

SHOW SNMP

Syntax

```
show snmp
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display SNMP status. The status is always Enabled.

Example

```
ATGS950_28PS# show snmp
```

SHOW SNMP COMMUNITY

Syntax

```
show snmp communi ty
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the SNMP community strings.

Example

```
ATGS950_28PS# show snmp communi ty
```

SHOW SNMP ENGINEID

Syntax

```
show snmp engi nei d
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the SNMP engineID.

Example

```
ATGS950_28PS# show snmp engi nei d
```

SHOW SNMP GROUP

Syntax

```
show snmp group
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the SNMP groups.

Example

```
ATGS950_28PS# show snmp-server group
```

SHOW SNMP-SERVER TRAPS-MANAGEMENT

Syntax

```
show snmp-server traps-management
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the IP addresses of network devices to receive traps from the switch.

Example

```
ATGS950_28PS# show snmp-server traps-management
```


SHOW SNMP USER

Syntax

```
show snmp user
```

Parameters

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the SNMPv3 users.

Example

```
ATGS950_28PS# show snmp-server user
```

SHOW SNMP VIEWTREE

Syntax

```
show snmp viewtree
```

Parameter

None.

Mode

Privileged Exec and Global Configuration modes

Description

Use this command to display the SNMP views.

Example

```
ATGS950_28PS# show snmp viewtree
```

SNMP-SERVER COMMUNITY

Syntax

```
snmp-server community community_name user user_name
```

Parameter

community_name

Specifies a new community name. The name is case sensitive.

user_name

Specifies an existing user name. The name is case sensitive.

Mode

Global Configuration mode

Description

Use this command to add community strings to the switch. You may add only one community string at a time. You have to add a user name before adding a community string. For instructions, refer to “SNMP-SERVER USER” on page 82.

Example

This example adds the community string sw2_Bldg3a with user SamB:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# snmp-server community sw2_Bldg3a
user SamB
```

SNMP-SERVER ENGINEID

Syntax

```
snmp-server engine-id engine-id
```

Parameter

engine-id

Specifies a new SNMPv3 engine ID.

Mode

Global Configuration mode

Description

Use this command to set the SNMPv3 engine ID.

Example

This example sets the SNMPv3 engine ID to 89ab532d782:

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# snmp-server engine-id 89ab532d782
```

SNMP-SERVER GROUP

Syntax

```
snmp-server group groupname v1|v2c|v3 auth|noauth|priv
[read readviewname] [write wri teviewname] [noti fy
noti fyviewname]
```

Parameters

groupname

Specifies a name for a new group.

v1|v2c|v3

Specifies the SNMP version. The versions are listed here:

v1: SNMPv1

v2c: SNMPv2c

v3: SNMPv3

auth|noauth|priv

Specifies the minimum security level that users must have to gain access to the switch through the group. This parameter applies only to SNMPv3. The options are:

auth: Authentication, but no privacy.

noauth: No authentication or privacy.

priv: Authentication and privacy.

readviewname

Specifies the name of an existing SNMPv3 view that defines the MIB objects the members of the group can view. If this parameter is omitted, the members cannot view any MIB objects using the group. The name is case sensitive.

wri teviewname

Specifies the name of an existing SNMPv3 view that defines the part of the MIB tree the members of the group can change. If this parameter is omitted, the members cannot change any MIB objects using the group. The name is case sensitive.

notifyviewname

Specifies the name of an existing notify SNMPv3 view that members of the group can modify. The name is case sensitive.

Mode

Global Configuration Mode

Description

Use this command to add SNMPv3 groups.

Example

This example adds a group called “sta5west” with a minimum security level of privacy. The group has a read view named “internet” and a write view named “private”:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# snmp-server group sta5west v3
priv read internet write private
```

SNMP-SERVER HOST

Syntax

```
snmp-server host ipv4_address|ipv6_address version
v1|v2c|v3 auth|noauth|priv community_name/user_name
```

Parameters

ipv4_address

Specifies the IPv4 address of a network device to receive traps from the switch.

ipv6_addr

Specifies the IPv6 address of a network device to receive traps from the switch.

v1 | v2c | v3

Specifies the trap format the switch transmits. The formats are listed here:

v1: SNMPv1

v2c: SNMPv2c

v3: SNMPv3

auth | noauth | priv

Specifies the minimum security level of SNMPv3 users to receive traps from the switch. This parameter applies only to SNMPv3. The options are listed here:

auth: Authentication, but no privacy.

noauth: No authentication or privacy.

priv: Authentication and privacy.

community_name

Specifies an SNMP community string. This parameter is case sensitive.

user_name

Specifies an SNMP user name. This parameter is case sensitive.

Mode

Global Configuration mode

Description

Use this command to specify the IP addresses of SNMP network devices to receive traps from the switch. The community and user names must already exist. For instructions, refer to “SNMP-SERVER COMMUNITY” on page 75.

Example

This example assigns the IPv4 address 149.44.12.44 of a trap receiver to community string Bldg2a and user Sam. The traps are sent in the SNMPv2c format:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# snmp-server host 149.44.12.44
version v2c Bldg2a/Sam
```


SNMP-SERVER TRAPS ENABLE

Syntax

```
snmp-server traps enable
```

Parameters

None.

Mode

Global Configuration mode

Description

Use this command to activate the transmission of SNMP traps. To disable traps, refer to “NO SNMP-SERVER TRAPS ENABLE” on page 65.

Example

```
ATGS950_28PS# configure terminal
ATGS950_28PS# snmp-server traps enable
```

SNMP-SERVER USER

Syntax

```
snmp-server user username groupname v1|v2c|v3  
[encrypted auth md5|sha auth-password] [priv des priv-  
password]
```

Parameters

username

Specifies a name for the new user account. The user name is case sensitive.

groupname

Specifies the SNMP group for the user. The group name is case sensitive.

v1|v2c

Specifies the SNMP version for the user. The options are listed here:

v1: SNMPv1

v2c: SNMPv2c

v3: SNMPv3

encrypted auth

Specifies an authentication protocol for a user. This parameter only applies to SNMPv3. The options are listed here:

md5: The MD5 Message Digest Algorithms authentication protocol.

sha: The SHA Secure Hash Algorithms authentication protocol.

auth-password

Specifies a password for authentication. This parameter only applies to SNMPv3. A password is case sensitive. Spaces are not allowed.

priv_password

Specifies a password for privacy with the 3DES Data Encryption Standard. This parameter only applies to SNMPv3. A password is case sensitive.

Mode

Global Configuration mode

Description

Use this command to add new users to groups for SNMP community strings.

Example

This example adds the user Smith to group Managers for v2c community strings:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# snmp-server user Smith Managers
v2c
```

SNMP-SERVER VIEWTREE

Syntax

```
snmp-server viewtree viewname subtreeoid subtreeoid  
[oidmask oidmask] included|excluded
```

Parameters

viewname

Specifies a name for a new view. The maximum length is 32 alphanumeric characters. The string is case sensitive. Spaces are not allowed.

subtreeoid

Specifies the OID of the view. The OID must be in decimal format.

oidmask

Specifies an OID mask.

included

Permits access to the part of the MIB tree specified by the OID.

excluded

Denies access to the part of the MIB tree specified by the OID.

Mode

Global Configuration mode

Description

Use this command to add SNMPv3 views on the switch. Views are used to restrict the MIB objects that network managers can access through SNMPv3 groups.

Examples

This example adds a view that excludes all MIB objects in the OID 1.3.6.1.2.1. The view is assigned the name "sw12_restrict_view:"

```
ATGS950_28PS# configure terminal  
ATGS950_28PS(config)# snmp-server viewtree  
sw12_restrict_view subtreeoid 1.3.6.1.2.1 excluded
```

This example adds the new view “AlliedTelesis” that limits the available MIB objects to those in the OID 1.3.6.1.4.1.207:

```
ATGS950_28PS# configure terminal
ATGS950_28PS(config)# snmp-server viewtree
AlliedTelesis subtreeoid 1.3.6.1 excluded
ATGS950_28PS(config)# snmp-server viewtree
AlliedTelesis subtreeoid 1.3.6.1.4.1.207 included
```

