Management Software

AT-S63



Starting a Management Session

For Stand-alone AT-9400 Switches and AT-9400Ts Stacks

AT-S63 Version 2.2.0 for AT-9400 Layer 2+ Switches AT-S63 Version 4.1.0 for AT-9400 Basic Layer 3 Switches



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Contents

Preface

This guide explains how to start local and remote management sessions on stand-alone AT-9400 Gigabit Ethernet Switches and AT-9400Ts Stacks.

This preface contains the following sections:

- "Product Documentation" on page 6
- □ "Where to Go First" on page 7
- D "Document Conventions" on page 8
- Contacting Allied Telesis" on page 9

Caution

The software described in this documentation contains certain cryptographic functionality and its export is restricted by U.S. law. As of this writing, it has been submitted for review as a "retail encryption item" in accordance with the Export Administration Regulations, 15 C.F.R. Part 730-772, promulgated by the U.S. Department of Commerce, and conditionally may be exported in accordance with the pertinent terms of License Exception ENC (described in 15 C.F.R. Part 740.17). In no case may it be exported to Cuba, Iran, Iraq, Libya, North Korea, Sudan, or Syria. If you wish to transfer this software outside the United States or Canada, please contact your local Allied Telesis sales representative for current information on this product's export status.

Product Documentation

For overview information on the features of the AT-9400 Switches and the AT-S63 Management Software, refer to:

 AT-S63 Management Software Features Guide (PN 613-001022)

For instructions on how to start local or remote management sessions on stand-alone AT-9400 Switches or AT-9400Ts Stacks, refer to:

 Starting an AT-S63 Management Session Guide (PN 613-001023)

For instructions on how to install or manage stand-alone AT-9400 Switches, refer to:

- AT-9400 Gigabit Ethernet Switch Installation Guide (PN 613-000987)
- AT-S63 Management Software Menus User's Guide (PN 613-001025)
- AT-S63 Management Software Command Line User's Guide (PN 613-001024)
- AT-S63 Management Software Web Browser User's Guide (PN 613-001026)

For instructions on how to install or manage AT-9400Ts Stacks, refer to:

- AT-9400Ts Stack Installation Guide (PN 613-000796)
- AT-S63 Management Software Command Line User's Guide (PN 613-001024)
- AT-S63 Management Software Web Browser User's Guide for AT-9400Ts Stacks (PN 613-001028)

The installation and user guides for all the Allied Telesis products are available in portable document format (PDF) on our web site at **www.alliedtelesis.com**. You can view the documents online or download them onto a local workstation or server.

Where to Go First

Allied Telesis recommends that you read Chapter 1, "Overview," in the *AT-S63 Management Software Features Guide* before you begin to manage the switch for the first time. There you will find a variety of basic information about the unit and the management software, like the two levels of manager access levels and the different types of management sessions. The *AT-S63 Management Software Features Guide* is also your resource for background information on the features of the switch. You can refer there for the relevant concepts and guidelines when configuring a feature for the first time.

Document Conventions

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.

Contacting Allied Telesis

	This section provides Allied Telesis contact information for technical support and for sales and corporate information.
Online Support	You can request technical support online by accessing the Allied Telesis Knowledge Base: www.alliedtelesis.com/support/kb.aspx . You can use the Knowledge Base to submit questions to our technical support staff and review answers to previously asked questions.
Email and Telephone Support	For Technical Support via email or telephone, refer to the Allied Telesis web site at www.alliedtelesis.com . Select your country from the list on the web site and then select the appropriate tab.
Returning Products	Products for return or repair must first be assigned a return materials authorization (RMA) number. A product sent to Allied Telesis without an RMA number will be returned to the sender at the sender's expense. For instructions on how to obtain an RMA number, go to the Support section on our web site at www.alliedtelesis.com .
Sales or Corporate Information	You can contact Allied Telesis for sales or corporate information through our web site at www.alliedtelesis.com .
Management Software Updates	New releases of the management software for our managed products are available from the following Internet sites:
	Allied Telesis web site: www.alliedtelesis.com
	Allied Telesis FTP server: ftp://ftp.alliedtelesis.com
	If the FTP server prompts you to log on, enter "anonymous" as the user name and your email address as the password.

Preface

Chapter 1 Local Management Sessions

Local management sessions are conducted through the Terminal Ports on the front panels of the AT-9400 Switches. Local management sessions must be performed at the location of the switches, hence the word "local." Because this type of management does not take place over a network, it is commonly referred to as out-of-band management. Local management sessions require the management cable included with the switches and a terminal or a computer with a terminal emulation program. The terminal or computer must have an unused RS-232 DE-9 pin port.

Note

Your initial configuration of a stand-alone AT-9400 Switch or an AT-9400Ts Stack must be from a local management session.

From local management sessions you can use the menus interface, the standard command line interface, and the AlliedWare Plus[™] command line interface of the AT-S63 Management Software. You can change between these interfaces during a management session without having to start a new management session.

Switch Configurations

A local management session can be used to manage one switch or several switches, depending on the configuration.

- Stand-alone switches: Stand-alone switches must be managed directly. A local management session on a stand-alone switch can be used to managed just that switch. To manage another switch, you must start a local management session on the other unit.
- Enhanced stacks: The switches of an enhanced stack can be managed directly like stand-alone units or through the master switch of the stack. A local management session on the master switch lets you manage all of the units in the stack. After you finish managing one unit, you can redirect the management session to another unit without having to log out. A local management session on a slave switch lets you manage just that unit.
- AT-9400Ts Stack: The switches of an AT-9400Ts Stack must be managed through the master switch. They cannot be managed as stand-alone units. Starting a local management session on the master switch lets you manage all the units simultaneously.

For information on enhanced stacking and AT-9400Ts Stacks, refer to the *AT-S63 Management Software Features Guide*.

Starting a Local Management Session

To start a local management session, perform the following procedure:

1. Connect one end of the RJ-45 to RS-232 management cable included with the switch to the Terminal Port on the unit's front panel, as shown in Figure 1.



Figure 1. Connecting the Management Cable to the RJ-45 Serial Terminal Port

To configure an AT-9400Ts Stack, you must connect the cable to the master switch. The master switch is identified by its green Stack Master LED.

- 2. Connect the other end of the cable to an RS-232 port on a terminal or PC with a terminal emulator program.
- 3. Configure the terminal or terminal emulation program as follows:
 - □ Baud rate: 9600 bps (The baud rate of the Terminal Port is adjustable from 9600 to 115200 bps. The default is 9600 bps.
 - Data bits: 8
 - Parity: None
 - □ Stop bits: 1
 - □ Flow control: None

Note

The port settings are for a DEC VT100 or ANSI terminal, or an equivalent terminal emulator program.

4. Press Enter.

You are prompted for a user name and password.

5. Enter a user name and password. The switch comes with two standard user accounts: manager and operator. The manager account lets you configure the switch's settings while the operator account only lets you view them.

To log in as the manager, enter "manager" as the user name. The default password for manager access is "friend. "To log in as an operator, enter "operator" as the user name. The default password for operator access is "operator." User names and passwords are case sensitive.

Note

A switch can support one manager session and eight operator sessions simultaneously.

6. The local management session starts and the standard command line interface prompt is displayed, as shown in Figure 2.



If the switch has been assigned a name, the name is displayed below the switch's model name.

7. To use the menus interface, type **menu** and press Return. The Main Menu is shown in Figure 3.

Allied Telesis AT-9 <no system<="" th=""><th>9424Ts - AT-S63 Name></th></no>	9424Ts - AT-S63 Name>
User: Manager	11:20:02 02-Mar-2009
Main Me	enu
 Port Configuration VLAN Configuration Spanning Tree Configuration MAC Address Tables System Administration Advanced Configuration Security and Services Enhanced Stacking 	n
C - Command Line Interface	
Q - Quit	
Enter your selection?	/

Figure 3. Main Menu

Note

AT-9400Ts Stacks do not support the menus interface.

To select a menu item, type the corresponding letter or number. To return to a previous menu, press the Esc key or type the letter \mathbf{R} . To return to the command line interface, type \mathbf{C} .

To enter the AlliedWare Plus[™] command line interface, type **awplus** at the standard command line prompt.

```
Allied Telesis (TM) AT-9424Ts AT-S63
<No System Name>
# awplus
AlliedWare Plus (TM) AT-9424Ts AT-S63
awplus>
```

Figure 4. AlliedWare Plus[™] Command Line Prompt

Chapter 1: Local Management Sessions

You can remotely manage the AT-9400 Switch from a management workstation on your network using the following applications:

- Telnet client
- □ Secure Shell (SSH) client
- Web browser

Preparing a Switch for Remote Management

The AT-9400 Switch must have an IP address for remote management. Assigning an IP address to the switch involves a number of steps. You have to create a virtual LAN for the remote management workstations, add a routing interface to the VLAN, and designate the interface as the switch's local interface. You also have to create a route to a default gateway if the switch and the remote management workstations are members of different subnets.

The routing interface is a key element in the Internet Protocol version 4 packet routing feature on the AT-9400 Basic Layer 3 Switches. It should be noted that even if you do not intend to use the packet routing feature, you still have to create one routing interface to assign the switch an IP address. The AT-9400 Layer 2+ Switches, which do not support the packet routing feature, do allow you to create one routing interface so that you can assign an IP address to the switches.

The following sections outline the general steps for assigning an IP address to a stand-alone switch, the master and slave switches of an enhanced stack, and an AT-9400Ts Stack. These basic steps can vary depending on the configuration of a switch. You may find the process easier if you first familiarize yourself with the basics to virtual LANs and routing interfaces by reading the appropriate chapters in the *AT-S63 Management Software Features Guide*.

Stand-aloneHere are the general steps to assigning an IP address to a stand-aloneSwitchswitch for remote management:

 Create a tagged or port-based VLAN that contains the ports where the remote management workstations are members. You can use the Default_VLAN for this purpose.

- 2. Assign a routing interface to the VLAN to act as the switch's IP address.
- 3. In situations where the remote management workstations are not members of the same subnet as the switch, create a default gateway that defines the first hop to reaching the workstations.
- 4. Designate the interface as the switch's local interface so that the switch monitors the subnet for the management packets from the remote management workstations.

The following example assigns the IP address 149.124.22.4 and subnet mask 255.255.255.0 to a stand-alone switch. The VLAN with the management workstations will be called Group5A, have a VID of 5, and consist of ports 11 to 14 on the switch. The IP configuration will include a default gateway address of 149.124.22.11 to permit remote management from workstations on subnets different than the switch.

1. This command creates the Group5A VLAN:

create vlan=Group5A vid=5 untaggedports=11-14

2. This command assigns a routing interface with the switch's IP address and subnet mask to the VLAN:

add ip interface=vlan5-0 ipaddress=149.124.22.4 mask=255.255.255.0

3. This command creates the default route:

add ip route=0.0.0.0 nexthop=149.124.22.11

4. This command designates interface VLAN5-0 as the local interface on the switch:

set ip local interface=vlan5-0

5. This command saves the changes to the switch's active boot configuration file:

save configuration

The switch can now be managed remotely from any management workstation in the 149.124.22.0 subnet in the Group5A VLAN or that has access to the subnet through Layer 3 routing devices. **Enhanced Stack** All of the requirements for remote management of the switch are met in an enhanced stack. Consequently, you do not have to perform any additional configuration steps to prepare a switch for remote management if it is part of an enhanced stack. For information on enhanced stacking, refer to the *AT-S63 Management Software Features Guide*.

Here are the general steps for configuring the AT-9400 Switch as the master switch of an enhanced stack:

- 1. Change the switch's enhanced stack mode to master.
- 2. Create the common port-based or tagged VLAN that will interconnect the switches of the enhanced stack. The Default_VLAN can be used as the common VLAN.
- 3. Assign the switch an IP address and subnet mask by adding a routing interface to the common VLAN.
- 4. If the remote management workstations are not members of the same subnet as the switch, create a default gateway that defines the first hop to reaching the workstations.
- 5. Designate the interface as the switch's local interface so that the switch monitors the subnet for the management packets from the slave switches and the remote management workstations.

Here are the general steps for configuring a switch as a slave switch in an enhanced stack:

- 1. Create the common VLAN on the switch.
- 2. Assign the switch an IP address and subnet mask by adding a routing interface to the common VLAN. The IP address must be a member of the same subnet as the interface on the master switch.
- Designate the routing interface as the local interface on the switch. (This step is not necessary if you are using the Default_VLAN as the common VLAN.)

Notice that you do not have to set the enhanced stack mode on a slave switch. This is because the default setting for a switch is slave. Notice also that a default gateway is not necessary. Since an enhanced stack is managed through the master switch, only that switch has to have a default route, and only if the remote management workstations are not members of the same subnet as the common VLAN of the stack. However, you can still assign a default route to a slave switch if you believe you might need to remotely manage the switch directly rather than through the enhanced stacking feature. The following example configures a switch as the master switch of an enhanced stack. It assumes that the common VLAN of the stack will be called Stack and have a VID of 12. This VLAN will consist of ports 18 to 22 on the master switch. The IP address of the switch will be 149.22.88.5 with a subnet mask of 255.255.255.0 and a gateway address of 149.22.88.27:

1. This command sets the enhanced stack mode of the switch to master:

set switch stackmode=master

2. This command creates the Stack VLAN:

create vlan=Stack vid=12 untaggedports=18-22

3. This command adds the routing interface with the switch's IP address and subnet mask to the VLAN:

add ip interface=vlan12-0 ipaddress=149.22.88.5 mask=255.255.255.0

4. This command creates the default route:

add ip route=0.0.0.0 nexthop=149.22.88.27

5. This command designates interface VLAN12-0 as the local interface on the switch:

set ip local interface=vlan12-0

6. This command saves the changes to the switch's active boot configuration file:

save configuration

This example configures a switch as a slave switch of an enhanced stack. Just as in the previous example for the master switch, the common VLAN will be called Stack and have a VID of 12. The VLAN will consist of just port 4. The IP address of the switch will be 149.22.88.21 with a subnet mask of 255.255.255.0:

1. This command creates the Sales VLAN:

create vlan=Stack vid=12 untaggedports=4

2. This command adds the routing interface with the switch's IP address and subnet mask to the VLAN:

add ip interface=vlan12-0 ipaddress=149.22.88.21 mask=255.255.255.0 3. This command designates interface VLAN12-0 as the local interface on the switch:

set ip local interface=vlan12-0

4. This command saves the changes to the switch's active boot configuration file:

save configuration

To remotely manage this enhanced stack, you would start the session by specifying the master switch's IP address at any remote management workstation in the 149.22.88.0 subnet or from a workstation that has access to the subnet through Layer 3 routing devices.

AT-9400Ts Stack The steps for preparing a stack for remote management are the same as those for a stand-alone switch. The steps are:

- Create a tagged or port-based VLAN of the ports where the remote management workstations are members. You can use the Default_VLAN for this purpose.
- 2. Assign a routing interface to the VLAN to act as the stack's IP address.
- 3. If the remote management workstations are not members of the same subnet as the stack, create a default gateway that defines the first hop to reaching the workstations.
- 4. Designate the interface as the stack's local interface so that the master switch monitors the subnet for the management packets from the remote management workstations.

This example assigns the IP address 149.124.82.14, subnet mask 255.255.255.0, and default gateway address 149.124.82.17 to a stack. The VLAN for the remote management workstations will be called Technical and will have the VID 2. The ports of the VLAN will consist of 1.4 to 1.6 on the master switch:

1. This command creates the Technical VLAN:

create vlan=Technical vid=2 untaggedports=1.4-1.6

2. This command adds the routing interface with the switch's IP configuration to the VLAN:

add ip interface=vlan2-0 ipaddress=149.124.82.14 mask=255.255.255.0

3. This command creates the default route:

add ip route=0.0.0.0 nexthop=149.124.82.17

4. This command designates interface VLAN2-0 as the local interface on the switch:

set ip local interface=vlan2-0

5. This command saves the changes in the stack's active boot configuration file:

save configuration

Any management workstation in the 149.124.82.0 subnet in the Technical VLAN or that has access to the subnet through Layer 3 routing devices can now be used to remotely manage the stack.

Starting a Remote Telnet or SSH Management Session

Note

You have to configure the Secure Shell (SSH) server on the switch before you can begin to configure the unit from an SSH client on your network. The initial configuration of the SSH server must be performed from a local management session or a Telnet session. For information on configuring the SSH server, refer to the *AT-S63 Management Software Features Guide*.

To start a remote Telnet or SSH connection, perform the following procedure:

1. In the Telnet or SSH client on the remote management workstation, enter the IP address of the local interface on the switch or stack to be managed. This can be a stand-alone switch, the master switch of an enhanced stack, or the master switch of an AT-9400Ts Stack.

Prompts are displayed for a user name and password.

2. Enter a user name and password. The switch comes with two default user accounts: manager and operator. The manager account lets you configure the switch's settings while the operator account only lets you view them.

To log in as the manager, enter "manager" as the user name. The default password for manager access is "friend. "To log in as an operator to just view the settings, enter "operator" as the user name. The default password for operator access is "operator." User names and passwords are case sensitive.

Note

A switch can support one manager session and eight operator sessions simultaneously.

The local management session starts and the command line interface (CLI) prompt is displayed, as shown in Figure 2 on page 14. If the switch has been configured with a name, the name is displayed below the switch's model name.

3. To use the menus interface, type **menu** and press Return.

The Main Menu is shown in Figure 3 on page 14.

- 4. To select a menu item, type the corresponding letter or number.
- 5. To return to a previous menu, press the Esc key or type the letter **R**.

Starting a Web Browser Management Session

The web server on a stand-alone AT-9400 Switch or the master switch of an enhanced stack supports both nonsecure HTTP and secure HTTPS operation. (For instructions on how to configure the web server for HTTPS, refer to the *AT-S63 Management Software Features Guide*.) The web server on the master switch of a stack of Basic Layer 3 AT-9400 Switches supports just HTTP.

To start a web browser management session on a switch or stack, perform the following procedure:

1. Start your web browser.

Note

If your PC with the web browser is connected directly to the switch or is on the same side of a firewall as the switch, you might have to configure your browser's network options not to use proxies. Consult your web browser's documentation on how to configure the switch's web browser to not use proxies.

2. In the URL field of the browser, enter the IP address of the local interface on the switch or stack to be managed. This can be a standalone switch, the master switch of an enhanced stack, or the master switch of an AT-9400 Basic Layer 3 stack. If the switch is configured for secure HTTPS management, included the prefix HTTPS://.

¢	🚈 Home - Microsoft Internet Explorer													
]	<u>F</u> ile	<u>E</u> dit	⊻iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp								
1	4		->	. 🐼	¢	1 🖄	Q	*	I	B -	4	8	ୁ ଁ)ଚ	
]	Back		Forward	Stop	Refre	sh Home	Search	Favorites	History	Mail	Print	Edit	Related	
]	A <u>d</u> dress		http://14	9.35.16.1										

Switch's IP Address

Figure 5. Entering a Switch's IP Address in the URL Field

The AT-S63 Management Software displays the login page, shown in Figure 6.

AT-9424T/SP	
Allied Telesis AT-S63	
System Name: Marketing MAC Addr: 00:30:84:AB:EF:	CD
User Name	
Password	
E	Login
Allied Telesyn	
Copyright © 2005 Allied Telesyn Inc. All rights reserved.	

Figure 6. AT-S63 Login Page

3. Enter a user name and password. The AT-S63 Management Software comes with two standard accounts, manager and operator. The former allows you to change the switch's parameter settings while the latter only allows you to view the settings. For manager access, enter "manager" as the user name. The default password is "friend." For operator access, enter "operator" as the user name. The default password is "operator." Login names and passwords are case-sensitive.

The home page is shown in Figure 7.



Figure 7. Home page

The main menu is on the left side of the home page. It consists of the following selections:

- □ Enhanced Stacking
- Configuration
- □ Monitoring
- □ Logout

Note

Only a master switch has the Enhanced Stacking selection.

A web browser management session remains active even if you link to other sites. You can return to the management web pages anytime as long as you do not quit the browser.

If you close your web browser without logging out, the switch considers the management session as still in progress and will not permit the start of another management session until the expiration of the console timer. The switch uses the timer to end inactive local and remote management sessions. The default setting for the timer is ten minutes. The console timer can be set from the menus or the command line interface, but not from the web browser interface.

Web Browser
ToolsYou can use the web browser tools to move around the management
pages. Selecting Back on your browser's toolbar returns you to the
previous display. You can also use the browser's bookmark feature to
save the link to the switch.

Chapter 3 Saving the Parameter Settings

The configuration settings of the switch are stored in a file called the active configuration file. This file resides in the file system of the switch and contains all of the commands needed to restore the current configuration. The switch refers to this file to restore its settings whenever it is reset or power cycled.

When you change a parameter setting of a feature, the new setting is immediately implemented by the switch. However, the active configuration file is not automatically updated. Rather, you must initiate the update yourself. Instructing the switch to update its configuration file with your parameter changes should be a standard part of your management sessions. Otherwise, your changes will be discarded if you have to reset the unit.

As explained in the following sections, the command for instructing the switch to update its configuration file is different for each of the management interfaces.

Menus Interface

To update the switch's active configuration file from the menus interface, return to the Main Menu and select **S** - **Save Configuration Changes**. The menu displays the selection only when there are changes to be saved.

Allied Telesis AT-9424Ts - AT-S63 Marketing						
User: Manager	11:20:02 02-Mar-2009					
Main Menu						
 Port Configuration VLAN Configuration Spanning Tree Configuration MAC Address Tables System Administration Advanced Configuration Security and Services Enhanced Stacking 						
C - Command Line Interface						
S - Save Configuration Changes Q - Quit						
Enter your selection?						

Figure 8. Save Configuration Changes Option in the Main Menu

Standard Command Line Interface

To save your configuration changes in the active configuration file from the standard command line interface, enter this command:

save configuration

AlliedWare PlusTM Command Line Interface

To save your configuration changes from the AlliedWare Plus[™] command line interface, enter either of these commands at the Privileged Exec mode:

write

copy running-config startup-config

Web Browser Management Interface

To update the active configuration file from the web browser management interface, click the **Save Config** option in the main menu. This menu option is only displayed where there are changes to be saved.

AT-94	148Ts/XP	
	Configuration	
Home System Layer 1 Layer 2 Mgmt. Security Mgmt. Protocols Network Security Services Multicast Utilities	System Name: Marketing MAC Addr: 00:30:84:FE:D2:00	IP Configuration Obtain IP Address From: ● Static DHCP BOOTP IP Address 149 .35 .62 .14 Subnet Mask 255 .255 Default Gateway
Save Config Help Logout Save Config Option	Passwords Manager Password Confirm Manager Password	Operator Password Confirm Operator Password

Figure 9. Save Config Option in the Web Browser Management Interface

Chapter 3: Saving the Parameter Settings

Chapter 4 Ending a Management Session

You should always log off at the conclusion of every management session of a switch. If you leave your management session unattended without logging off, anyone can use your workstation to make unauthorized changes to the unit's parameter settings.

The switch has a console timer that automatically ends a management session if there is no management activity for the specified length of time. The default is ten minutes.

The following sections describe how to end a management session from each of the management interfaces.

Menus Interface

To end a management session from the menus interface, return to the Main Menu and type **Q** for Quit.

Standard Command Line Interface

To end a management session from the standard command line interface, enter any of the following commands.

exi t

logoff

l ogout

qui t

AlliedWare PlusTM Command Line Interface

To end a management session from the AlliedWare Plus[™] command line interface, enter this command at the User Exec mode or the Privileged Exec mode.

qui t

Web Browser Interface

To exit a web browser management session, select the **Logout** option from any of the menus in the web browser interface.