



AT-S100 Version 1.0.5 Management Software for the AT-9000/28 Managed Layer 2 GE ecoSwitch, AT-9000/28SP Managed Layer 2 GE ecoSwitch, and AT-9000/52 Managed Layer 2 GE ecoSwitch Software Release Notes

Please read this document before you begin to use the management software.

Supported Platforms

The AT-S100 Version 1.0.5 Management Software is supported on the AT-9000/28, AT-9000/28SP, and AT-9000/52 switches.

Product Documentation

For hardware installation instructions, refer to the following guide:

- ❑ *AT-9000 Managed Layer 2 GE ecoSwitch Family Installation Guide*

For management instructions, refer to the following guide:

- ❑ *AT-S100 Management Software User's Guide*

The *AT-S100 Management Software User's Guide* lists the commands supported in the software. This guide applies to the AT-9000/28, AT-9000/28SP, and AT-9000/52 switches.

Both documents are available from the Allied Telesis web site at **www.alliedtelesis.com**.

What's New in Version 1.0.5

There were no new software or hardware features added to this release. For a complete list of AT-S100 Management Software and AT-9000 switch features, see "Feature History" on page 5.

Known Issues

The following issues were found in this release:

- ❑ Port ranges unsupported. Port ranges are not supported in the Command Line Interface (CLI) or in the web interface. (6551)
- ❑ Flooding of MAC Addresses. The switch floods reserved group MAC addresses, such as 01:80:C2:00:00:01. (6552)
- ❑ SHOW BRIDGE command. This command may produce unexpected results. (6908)

Resolved Issues

The issues in this section were resolved in releases AT-S100 V1.0.4, AT-S100 V1.0.3 Patch 1, and AT-S100 V1.0.2.

The following issues were resolved in release AT-S100 V1.0.4:

- ❑ Incorrect NTP status. Network Time Protocol (NTP) status is not updated to reflect successful clock synchronization. This issue has been resolved. (6545)
- ❑ Disabling Telnet session. After disabling an active Telnet session, the switch does not close the session and it displays error messages. This issue has been resolved. (6558)
- ❑ Switch limits number of VLANs. The switch allows creation of 254 VLANs maximum. This issue has been resolved. (6562)
- ❑ SNMP Community Names and Passwords. When configuring Simple Network Management Protocol (SNMP), you must first configure a community name with the SNMP-SERVER COMMUNITY command. Then you must assign a password to this community with the SNMP-SERVER HOST command. In addition, you must set the community name and the password to the same value. For example, if you create a community name of "Allied6," then the password must also be "Allied6." This issue has been resolved. (6617)
- ❑ IGMP Host is not flushed. When an IGMP host member of the multicast group is linked down, the host remains in the IGMP table and is not flushed from the table. This issue has been resolved. (6690)
- ❑ Port LEDs. When an combination fiber port is disconnected, the LED remains lit. This issue has been resolved. (6777)

The following issues were resolved in release AT-S100 V1.0.3 Patch 1:

- ❑ Mode switch LED. There was an issue with selecting the MODE SELECT switch on the front panel and the display of the associated Mode LED. This issue has been resolved. (6879)
- ❑ Jumbo Frame Drop Issue. There was an issue with the switch dropping jumbo frames on SFP ports. This issue has been resolved. (6886)

The following issue was resolved in release AT-S100 V1.0.2:

- ❑ Distribution method for Link Aggregation Control Protocol (LACP). You cannot change the distribution method of LACP unless both ends are configured. This issue has been resolved. (6669)

Operational Notes

The following issues are noted in this release:

- ❑ Manager and Operator privilege levels. When the switch is set to the factory default configuration, a user with Operator privileges has access to the Privilege Executive mode. In other words, the Manager and the Operator logins share the same privilege levels. (6516)
 - *Workaround:* Assign a password to the Operator login that allows this login to access the Privileged Executive mode only when the password is entered. Login to the Privileged Executive mode with Manager privileges by using the “manager” and “friend” user id and password. Change to the Configuration Terminal mode. Then use the ENABLE SECRET command to set the password for the Operator login.

After you create a secret for the Operator login, you can allow an Operator’s access to the Configuration Terminal mode by granting them the password created with the ENABLE SECRET command.

To set a password for the Operator login to access the Privileged Executive mode, do the following:

1. Login to the Privileged Executive mode with manager privileges. Enter the following commands:

```
Username:manager
Password:friend
switch#
```

The “#” prompt indicates that you are in the Privileged Executive mode.

2. Change to the Configuration Terminal mode. Enter the following command:

```
switch#configure terminal
Enter configuration commands, one per line. End with CTRL/Z.
switch(config)#
```

The “(config)#” prompt indicates that you are in the Configuration Terminal mode.

3. Use the ENABLE SECRET command to set the ENABLE password to “aloha5551212” for the operator login. Enter the following command:

```
switch(config)#enable secret aloha5551212
```

4. Exit the Configuration Terminal mode. Enter the following command:

```
switch(config)#exit
switch#
```

The “#” prompt indicates that you are in the Privileged Executive mode.

5. Exit the session. Enter the following command:

```
switch#exit
```

The following is displayed:

```
Allied Telesis ATS100 L2/L2T Ethernet Switch v1.0.5
```

```
Username:
```

6. Login with the Operator user id. Enter the following commands:

```
Username:operator
```

```
Password:operator
```

```
switch>
```

The ">" prompt indicates that you are in the View mode.

7. Enter the ENABLE command:

```
switch>enable
```

```
Password:
```

You are prompted for a password.

8. Enter the password that you created with the ENABLE SECRET command:

```
Password:aloha5551212
```

```
switch#
```

The "#" prompt indicates that you are in the Privileged Executive mode.

- ❑ Port mirroring issue. Egress mirroring packets are always marked as tagged. (6519)
- ❑ DHCP issue with Windows 2000 DHCP Server. The AT-9000 switch will not work with a Microsoft Windows 2000 Server unless its configuration has been modified. (6590)
 - *Workaround:* Use the instructions on the following website:
www.microsoft.com/technet/prodtechnol/windows2000serv/reskit/regentry/46679.msp?mfr=true
- ❑ Web Interface. In Internet Explorer, updates to the LACP and Static Trunking web pages are not always displayed. (6759)
 - *Workaround:* Use the Refresh key to display updates to the LACP and Static Trunking web pages.

Feature History

The section lists the feature history of the AT-S100 Management Software as well as the AT-9000/28, AT-9000/28SP, and AT-9000/52 switches.

Version 1.0.4

The following software and hardware features were added to AT-S100 Version 1.0.4.

Software Features

The AT-S100 Version 1.0.4 software supports the 52 ports of the AT-9000/52 switch. For a complete list of software features, see “Software Features” on page 6.

Hardware Features

The AT-9000/52 Managed Layer 2 GE ecoSwitch is supported in this release. The features of this switch include:

- ☐ 52 port Gigabit switch with 48 10/100/1000Base-T copper ports with fixed configuration and 4 SFP ports
- ☐ 4 SFP slots
- ☐ RS-232 Console port with RJ-45 connector
- ☐ Port status LEDs
- ☐ Low power mode push-button ecoSwitch
- ☐ MODE (collision, speed, duplex, activity) selection switch
- ☐ Auto MDI/MDI-X on the twisted pair ports
- ☐ IEEE 802.3i, 3u, and 3z compliant
- ☐ IEEE 802.3x flow control in full-duplex operation, back pressure in half-duplex operation, and pause frame flow control in full-duplex mode
- ☐ MAC address table capacity of up to 8K addresses with automatic aging
- ☐ 16MB flash memory with 128MB RAM
- ☐ Compliant with European and China RoHS standards

Version 1.0.3 Patch 3

There were no new software or hardware features added to this release. For a complete list of AT-S100 Management Software and AT-9000 switch features, see “Feature History” on page 5.

Version 1.0.3

This section lists the new software and hardware features supported in AT-S100 Version 1.0.3.

Software Features

- ☐ Password Encryption is supported in this release. For more information about this feature, see the *AT-S100 Management Software User's Guide*.

Hardware Features

- ❑ The AT-9000/28SP Managed Layer 2 GE ecoSwitch supports up to 12 copper SFPs or up to 28 fiber SFPs.

Version 1.0.2

The following software and hardware features were included in AT-S100 Version 1.0.2.

Software Features

The AT-S100 Version 1.0.2 software features for the AT-9000/28SP switch are identical to the AT-S100 Version 1.0.1 software features for the AT-9000/28 switch. For a complete list of features, see “Software Features” on page 6.

Hardware Features

The AT-9000/28SP Managed Layer 2 GE ecoSwitch is supported in this release. The features of this switch include:

- ❑ 28 port Gigabit switch with 24-Gigabit Ethernet small form-factor pluggable (SFP) transceiver slots and 4 SFP/RJ-45 combo ports
- ❑ RS-232 Console port with RJ-45 connector
- ❑ Port status LEDs
- ❑ Low power mode push-button ecoSwitch
- ❑ MODE (collision, speed, duplex, activity) selection switch
- ❑ Auto MDI/MDI-X on the twisted pair ports
- ❑ IEEE 802.3i, 3u, and 3z compliant
- ❑ IEEE 802.3x flow control in full-duplex operation, back pressure in half-duplex operation, and pause frame flow control in full-duplex mode
- ❑ MAC address table capacity of up to 8K addresses with automatic aging
- ❑ 16MB flash memory with 128MB RAM
- ❑ Temperature controlled fan
- ❑ Compliant with European and China RoHS standards

Version 1.0.1

The following software and hardware features were included in AT-S100 Version 1.0.1.

Software Features

The AT-S100 Version 1.0.1 Management Software supports the following features:

- ❑ Bandwidth Control
- ❑ Broadcast storm control
- ❑ Dynamic Host Configuration Protocol (DHCP)
- ❑ Flow control
- ❑ GARP VLAN Registration Protocol (GVRP)
- ❑ Port-based and tagged VLANs

- ❑ 802.1p Class of Service (CoS)
- ❑ Port trunking supporting static and LACP (Link Aggregation Control Protocol) port trunks
- ❑ Port mirroring
- ❑ Port security
- ❑ Port statistics
- ❑ Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP)
- ❑ Secure Shell (SSH)
- ❑ Industry-standard Command Line Interface (CLI) for local or remote management and a web browser interface for remote management
- ❑ IGMP Snooping supporting IGMP versions 1 and 2
- ❑ Simple Network Management Protocol (SNMP) versions SNMPv1 and SNMPv2c
- ❑ Network Time Protocol (NTP) support
- ❑ Static multicast addresses
- ❑ 802.1x Port-based Network Access Control (IEEE 802.1x)
- ❑ Remote Authentication Dial In User Services (RADIUS) client
- ❑ TFTP to upgrade the firmware image

Hardware Features

The features of the AT-9000/28 switch include:

- ❑ 28 port Gigabit switch with 24 10/100/1000Base-T copper ports with fixed configuration and 4 SFP/copper combo ports
- ❑ 4 SFP slots
- ❑ RS-232 Console port with RJ-45 connector
- ❑ Port status LEDs
- ❑ Low power mode push-button ecoSwitch
- ❑ MODE (collision, speed, duplex, activity) selection switch
- ❑ Auto MDI/MDI-X on the twisted pair ports
- ❑ IEEE 802.3i, 3u, and 3z compliant
- ❑ IEEE 802.3x flow control in full-duplex operation, back pressure in half-duplex operation, and pause frame flow control in full-duplex mode
- ❑ MAC address table capacity of up to 8K addresses with automatic aging
- ❑ 16MB flash memory with 128MB RAM
- ❑ Compliant with European and China RoHS standards

Upgrading the AT-S100 Software

To upgrade an AT-9000 switch with the latest version of the AT-S100 software, you need to download the software onto your switch with an TFTP server. To obtain the latest version of the AT-S100 software, go to our website, www.alliedtelesis.com and copy it on to your PC.

You can use the procedure in this section to upgrade the following versions of software to AT-S100 V1.0.5:

- ☐ AT-S100 V1.0.2 software
- ☐ AT-S100 V1.0.3 software
- ☐ AT-S100 V1.0.3 Patch 1 software
- ☐ AT-S100 V1.0.4 software

To upgrade the AT-S100 software, download one image file called, "ATS100_v105_ATI.img," onto your switch. You do not need to upgrade the bootloader file.

For more information about the commands listed in the following procedure, see the *AT-S100 Management Software User's Guide*.

Upgrading the Software to AT-S100 V1.0.5

To upgrade the AT-S100 software to version 1.0.5, do the following:

1. To check the current version installed on your switch, enter the SHOW VERSION command.

Here is a sample output of the SHOW VERSION command when the AT-S100 V1.0.3 is installed on an AT-9000/28 switch:

```
(switch)#show version
      Product ID=ATS100
      Application Version=1.0.3
      Application BuildTime=12:47:47
      Application BuildDate=Nov 21 2008
      Serial Number=A04149A083700043
      Model=AT-9000/28
      Ethaddr=00-16-77-C9-A5-77
      Baudrate=9600
      Uptime= 16:01:02 up 1 min, load average: 0.21, 0.08, 0.02

      HwRev=B
```

2. Assign an IP address and subnet mask to the switch with the IP ADDRESS A.B.C.D/mask command.

The following commands set VLAN 1 with the primary IP address and mask of 192.0.0.1/8:

```
switch#configure terminal
switch(config)#interface vlan1
```



```
switch(config-if)#ip address 192.0.0.1/8
```

Make sure the IP address of the TFTP server is in the same subnet as the IP address of the switch.

3. Save your current configuration by entering the following command:

```
switch#copy running-config startup-config
```

4. Download the image file from the TFTP server onto the switch with the DOWNLOAD command. The following command uses a TFTP server, with an IP address of 189.11.1.1, to download the "ATS100_v105_ATI.img" file onto the switch:

```
switch#download tftp 189.11.1.1 ATS100_v105_ATI.img
```

- 5.

The following is displayed:

TFTP IP 189.11.1.1, file name ATS100_v105_ATI.img

Erasing 88 Sectors ...

Writing to flash ...

6. To check the current version installed on your switch, enter the SHOW VERSION command again.

Here is a sample output of the SHOW VERSION command after the AT-S100 V1.0.5 software has been installed on an AT-9000/28 switch:

```
(switch)#show version
```

```
Product ID=ATS100
```

```
Application version=1.0.5
```

```
Application BuildTime=18:02:47
```

```
Application BuildDate=July 20 2009
```

```
Serial Number=A04149A083700043
```

```
Model=AT-9000/28
```

```
Ethaddr=00-16-77-C9-A5-77
```

```
Baudrate=9600
```

```
Uptime= 16:01:02 up 1 min, load average: 0.21, 0.08, 0.02
```

```
HwRev=B
```

7. Reboot the switch by entering the following command:

```
(switch)#system reboot
```

Contacting Allied Telesis

This section provides Allied Telesis contact information for technical support as well as sales or 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 Support section of the Allied Telesis web site: **www.alliedtelesis.com/support**.

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/support/rma.aspx**.

For Sales or Corporate Information

You can contact Allied Telesis for sales or corporate information through our web site at **<http://www.alliedtelesis.com/purchase>**.

Obtaining Management Software Updates

New releases of management software for our managed products are available from either of the following Internet sites:

- ☐ Allied Telesis web site: **www.alliedtelesis.com**
- ☐ Allied Telesis FTP server: **<ftp://ftp.alliedtelesis.com>**

You must have FTP client software to download new software from the Allied Telesis FTP server from your workstation's command prompt and you must log in to the server. The user name is "anonymous" and your email address is the password.

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