Session Border Controllers (SBC)

Multi-Service Business Routers (MSBR)

VoIP Analog & Digital Media Gateways

User's Guide

AudioCodes CLI Wizard Utility

HD VoIP Sounds Better

July 2014

Document # LTRT-52350

AudioCodes

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Notice

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Date Published: July-13-2014

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Related Documentation

Manual Name
CLI Reference Guide

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1 Introduction

The AudioCodes *CLI Wizard* utility provides a quick-and-easy tool for configuring your AudioCodes Mediant series device with basic, initial management settings. The utility is typically used for first-time configuration of the device and is performed through a direct RS-232 serial cable connection with a computer. Configuration is done using the device's command-line interface (CLI). Once configured through the utility, you can access the device's management interface through the IP network.

The CLI Wizard allows you to configure the following management settings:

- Login passwords of the Security Administrator ("Admin") and User Monitor user accounts for accessing the device's embedded Web and CLI servers.
- IP network of the operations, administration, maintenance, and provisioning (OAMP) interface
- SNMP community strings (read-only and read-write)

This document provides step-by-step procedures on how to use the CLI Wizard and configure the device. The procedures are organized chronologically in the document, as follows:

1. Establishing a Serial Connection – see Chapter 2 on page 9
2. Restoring Device to Factory Defaults – see Chapter 3 on page 11
3. Accessing the CLI Wizard – see Chapter 4 on page 13
4. Configuring the Device – see Chapter 5 on page 15
5. Cabling to the IP Network – see Chapter 6 on page 23

As the CLI Wizard differs slightly between various AudioCodes products, the following two terms are used in this document, where necessary, to indicate applicability:

- *Group A Products:*
  - Mediant 5xx Series
  - Mediant 8xx Series
  - Mediant 1000B
  - Mediant 2600 E-SBC
  - Mediant 4000 SBC
  - Mediant 9000
  - Mediant SE & VE SBC
- *Group B Products:*
  - MP-1xx Series
  - Mediant 2000
  - Mediant 3000

For complete configuration of the device through CLI, refer to the *CLI Reference Guide*.

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2 Establishing Serial Communication

Before you can use the CLI Wizard, you need to establish serial communication with the device through a **direct** serial cable setup. In other words, you need to cable the device's RS-232 serial port interface directly to the computer (management station).

2.1 Group-A Products

This procedure is applicable to the Group-A products (as listed in Chapter 1 on page 7).

➢ **To establish a serial connection:**

1. Cable the device's serial port interface to the serial communication port on the PC management station. For RS-232 cabling, refer to Part I, "Getting Started" in the *User's Manual.*
2. Establish serial communication with the device using a terminal emulator program (for example, PuTTY). For communication port settings such as baud rate, refer to Part I, "Getting Started" in the *User's Manual*.

   When serial communication with the device is established, the CLI prompts you for the login username:

Figure 2-1: Login Username Prompt



3. Type the username (default is case-sensitive "Admin"), and then press Enter; the wizard prompts you for the password:

Figure 2-2: Login Password Prompt



4. Type the login password (default is case-sensitive "Admin"), and then press Enter; you have now accessed the device's embedded CLI server:

Figure 2-3: CLI Accessed



5. Type **`enable`** to access the "privileged" configuration mode, and then press Enter; you are prompted for the password of the "privileged" CLI mode:

Figure 2-4: Password Prompt for Privileged Mode



6. Type the password (default is case-sensitive "Admin"), and then press Enter; you are now in the "privileged" configuration mode, indicated by the # sign:

Figure 2-5: Privileged Mode



7. Continue with Chapter 4 on page 13 for accessing the CLI Wizard mode if your device is running default settings; otherwise, continue to Chapter 3 on page 11 to restore your device to factory defaults.

2.2 Group-B Products

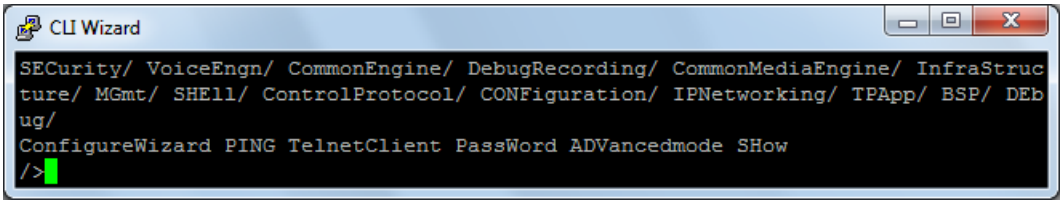
This procedure is applicable to the Group-B products (as listed in Chapter 1 on page 77).

➢ **To establish a serial connection:**

1. Cable the device's serial port interface to the serial communication port on the PC management station. For RS-232 cabling, refer to Part I, "Getting Started" in the *User's Manual.*
2. Establish serial communication with the device using a terminal emulator program (for example, PuTTY). For communication port settings such as baud rate, refer to Part I, "Getting Started" in the *User's Manual*.

   When serial communication with the device is established, the CLI prompt is displayed:

Figure 2-6: CLI Accessed



3. Continue with Chapter 4 on page 13 for accessing the CLI Wizard.

3 Restoring Device to Factory Defaults

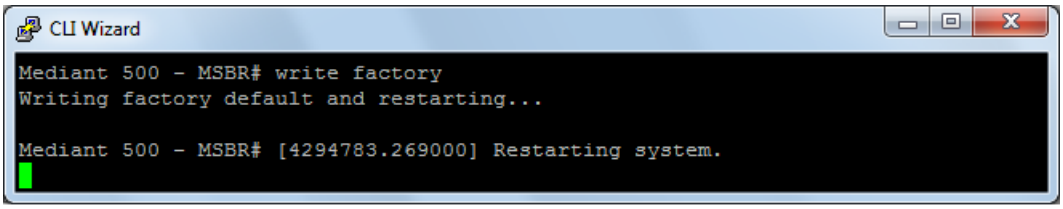
For Group-A products, in order to use the CLI Wizard, the device must be running factory defaults. If you have performed any device configuration prior to using the CLI Wizard, follow the procedure below to restore the device to factory defaults.

Note: **Only Group-A products** must be running factory defaults to use the CLI Wizard; for Group-B products, ignore this chapter.

➢ **To restore the device to factory defaults:**

1. At the # prompt, type **`write factory`**, and then press Enter; the device starts the restoring-to-factory defaults process. This may take a few minutes.

Figure 3-1: Restoring Device to Factory Defaults



2. When the device has restored to factory defaults, you are prompted again to log on to the CLI. Follow the procedure in Section 2.1 on page 9 for logging on, and then follow the procedure in Chapter 4 on page 13 for accessing the CLI Wizard.

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4 Accessing the CLI Wizard

Once you have established a serial connection with the device (as described in Chapter 2 on page 9), you can access the CLI Wizard.

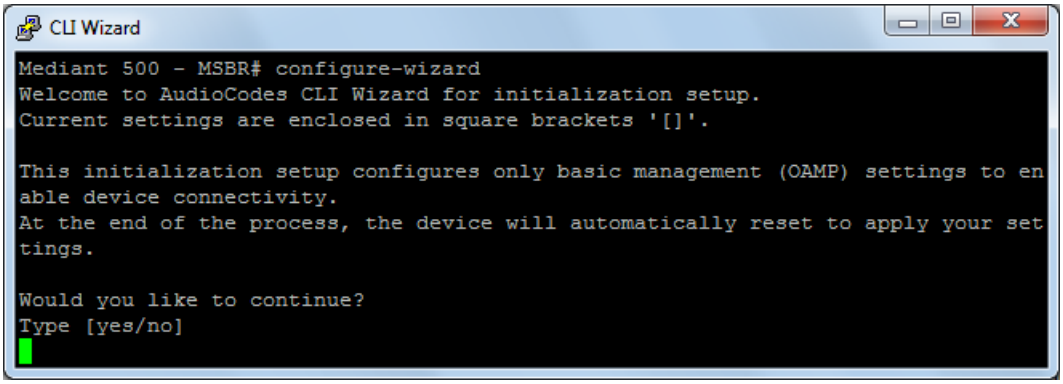
4.1 Group-A Products

This procedure is applicable to the Group-A products (as listed in Chapter 1 on page 7).

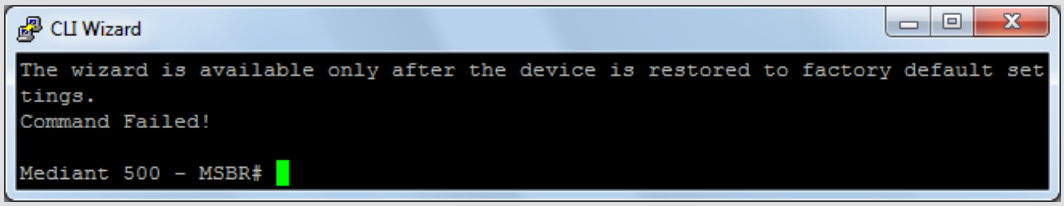
➢ **To access the CLI Wizard:**

1. At the # prompt, type the **`configure-wizard`** command, and then press Enter; the CLI Wizard mode is accessed and you are prompted to confirm continuation of the wizard:

Figure 4-1: CLI Wizard Mode



Note: You can access the CLI Wizard **only** if the device is running at factory defaults. If you have performed any device configuration prior to accessing the CLI Wizard, the following message appears after running the **`configure-wizard`** command:



For restoring, the device to factory defaults, see Section 3 on page 11.

2. Type **`yes`** to continue with the wizard, and then press Enter. If you type **`no`**, you are exited from the CLI Wizard mode and returned to the "privileged" mode, indicated by the # sign.
3. Continue with Chapter 5 on page 15 for configuring the device using the CLI Wizard.

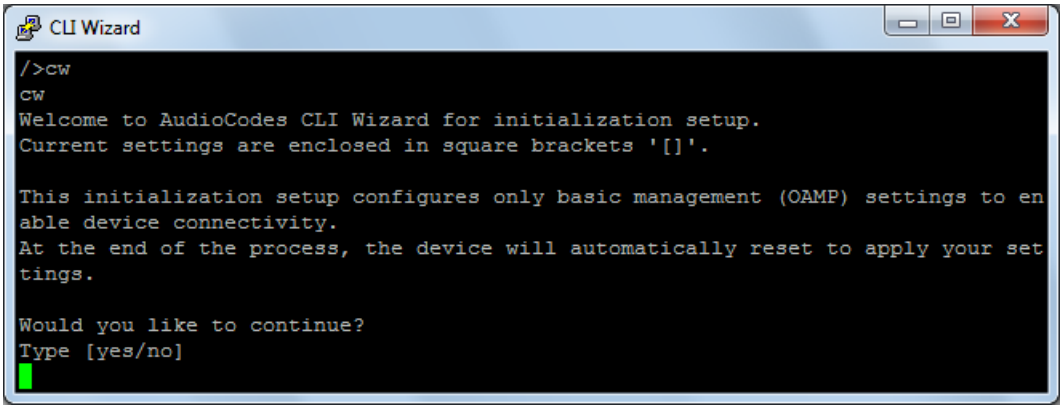
4.2 Group-B Products

This procedure is applicable to the Group-B products (as listed in Chapter 1 on page 7).

➢ **To access the CLI Wizard:**

1. At the prompt, type the **`ConfigureWizard`** (or **`Cw`** shortcut) command, and then press Enter; the CLI Wizard is accessed and you are prompted to confirm continuation of the wizard:

Figure 4-2: CLI Wizard Mode



2. Type **`yes`** to continue with the wizard, and then press Enter. If you type **`no`**, you are exited from the CLI Wizard and returned to the root prompt `/>`.
3. Continue with Chapter 5 on page 15 for configuring the device using the CLI Wizard.

5 Configuring the Device

Once you have accessed the CLI Wizard (as described in the previous chapter), the wizard prompts you along to configure the device's management settings in the following order:

1. Web/CLI users' login passwords
2. OAMP network settings
3. SNMP community strings

As you complete one configuration topic (listed above), the wizard prompts you for the next topic. You can skip a specific configuration topic and accept default settings by typing the **no** command when prompted. Within each configuration topic, you can accept the default value of a parameter and skip to the next parameter, by simply pressing the Enter key.

Notes:

- For each parameter, the CLI wizard displays the current setting enclosed in square brackets [...].
- If you do not make any changes to parameter values in the CLI Wizard, at the end of the last configuration stage (i.e., SNMP settings), the CLI Wizard quits and returns you to the initial CLI prompt.

5.1 Configuring Web/CLI Users' Login Passwords

The first configuration stage prompted by the wizard concerns Web/CLI users' login passwords. These passwords are for the Security Administrator ("Admin") user account and User Monitor user account (read-only).

Note: For Group-B products only: If you configure new Web-CLI user passwords, the CLI Wizard deletes all previously configured use accounts.

➢ **To configure Web/CLI users' login password:**

1. Once you have accessed the CLI Wizard and confirmed to continue, you are prompted to configure the Web/CLI users' login passwords:

Figure 5-1: Web-CLI Users Configuration Stage – Group-A Products

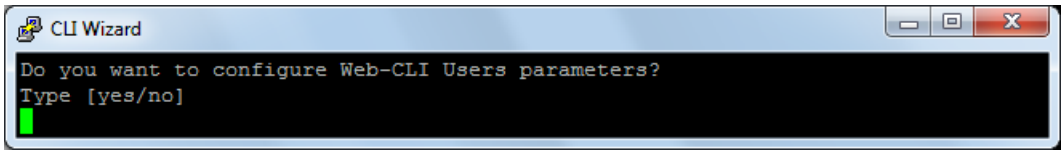
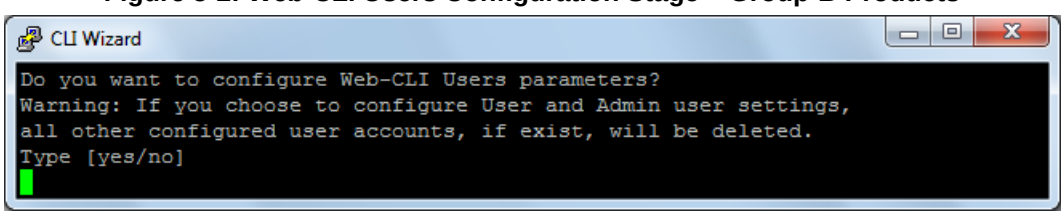


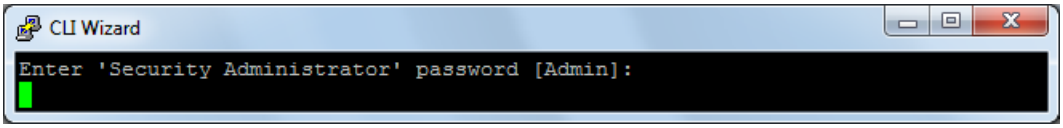
Figure 5-2: Web-CLI Users Configuration Stage – Group-B Products



Type **yes** to begin this configuration stage, and then press Enter. Otherwise, if you want to leave the settings at default values, type **no** to skip this stage and continue with the next stage as described in Section 5.2 on page 16.

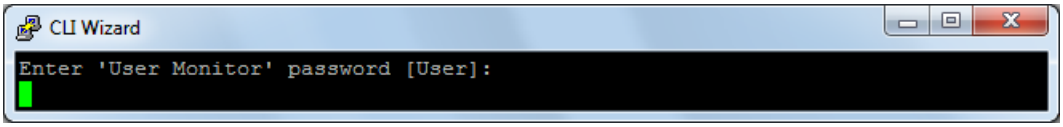
2. At the prompt, type the new password for the Administrator user account, and then press Enter:

Figure 5-3: Password for Security Administrator User



3. At the prompt, type the new password for the Monitor user account, and then press Enter:

Figure 5-4: Password for Monitor User



4. The wizard prompts you for configuring the OAMP network settings. Continue with the OAMP network configuration stage, as described in Section 5.2 on page 16.

5.2 Configuring OAMP Network Interface

The second configuration stage prompted by the wizard concerns OAMP network settings. This is the interface used for accessing the device's management platform over the IP network and includes the following configuration:

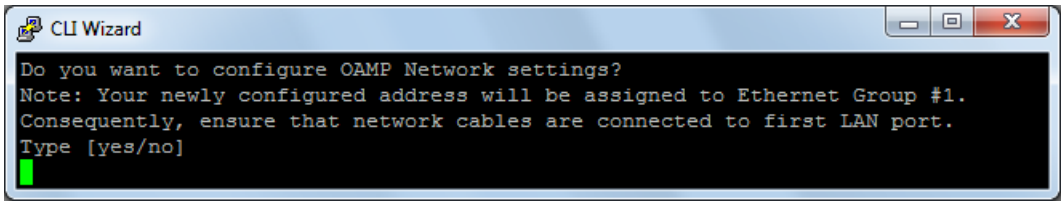
- IP address
- Prefix length (applicable only to Group-A products)
- Subnet mask (applicable only to Group-B products)
- VLAN ID (applicable only to Group-A products)
- Default Gateway
- Primary and secondary Domain Name Server (DNS) addresses

Note: For Group-B products only: If you configure a new OAMP interface, the CLI Wizard deletes all previously configured network interfaces.

➢ **To configure OAMP network settings:**

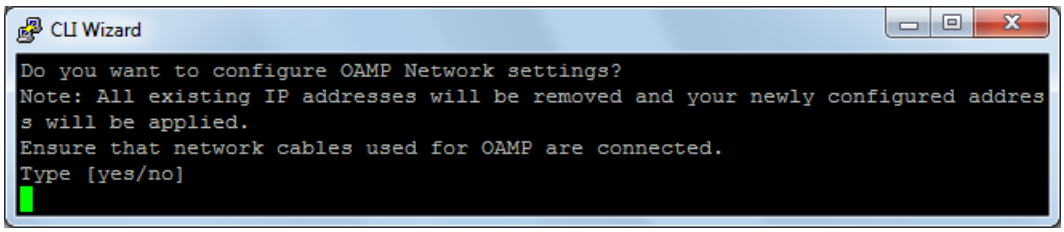
1. When the Web/CLI users' login passwords configuration stage is complete, you are prompted to configure the OAMP network settings:

Figure 5-5: OAMP Network Configuration Stage – Group-A Products



Note: For Group-A Products: Before continuing, make a note of the Ethernet port mentioned in the screen above with which this OAMP interface is associated. When you later cable the device to the IP network after the wizard has applied your settings, you **must** use this port.

Figure 5-6: OAMP Network Configuration Stage – Group-B Products



Type **yes** to begin this configuration stage, and then press Enter. Otherwise, if you wish to leave the settings at default values, type **no** to skip this stage and continue with the next stage as described in Section 5.3 on page 19.

2. **(Applicable only to Group-A products.)** At the prompt, type the VLAN ID, and then press Enter:

Figure 5-7: Configuring VLAN ID



3. At the prompt, type the IP address, and then press Enter:

Figure 5-8: Configuring IP Address



4. **(Applicable only to Group-A products.)** At the prompt, type the prefix length (in CIDR notation), and then press Enter:

Figure 5-9: Configuring Prefix Length



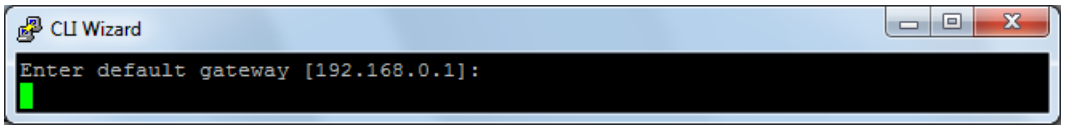
5. **(Applicable only to Group-B products.)** At the prompt, type the subnet mask, and then press Enter:

Figure 5-10: Configuring Subnet Mask



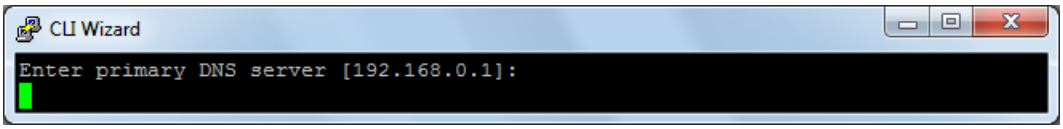
6. At the prompt, type the Default Gateway address, and then press Enter:

Figure 5-11: Configuring Default Gateway



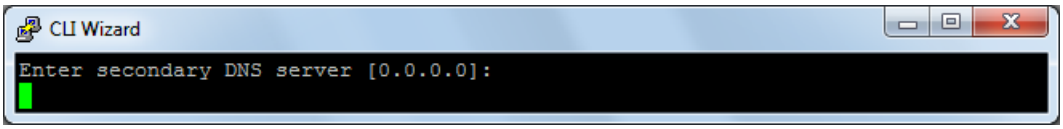
7. At the prompt, type the primary DNS address, and then press Enter:

Figure 5-12: Configuring Primary DNS Address



8. At the prompt, type the secondary DNS address, and then press Enter:

Figure 5-13: Configuring Secondary DNS Address



9. The wizard prompts you for configuring the SNMP settings. Continue with the SNMP configuration stage, described in Section 5.3 on page 19.

5.3 Configuring SNMP Community Strings

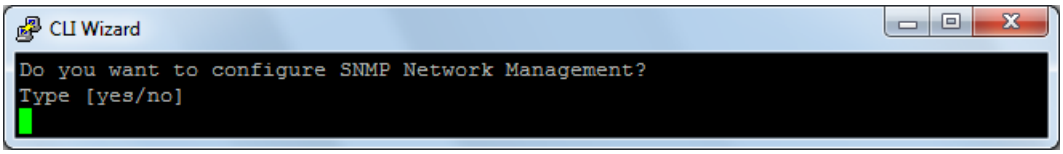
The last configuration stage prompted by the wizard concerns SNMP settings. This concerns SNMP read-only and read-write community strings.

Note: For Group-B products only: If you configure new SNMP community strings, the wizard deletes all your previously configured SNMP community strings.

➢ **To configure SNMP settings:**

1. When the OAMP network configuration stage is complete, you are prompted to configure the SNMP settings:

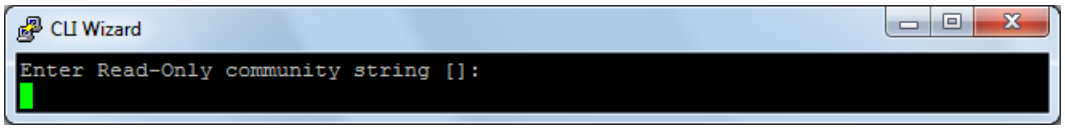
Figure 5-14: Configuring SNMP



Type **yes** to begin the SNMP configuration stage, and then press Enter. Otherwise, if you wish to leave the settings at default values, type **no** to skip this stage and continue with the final stage of confirming your settings as described in Section 5.4 on page 20.

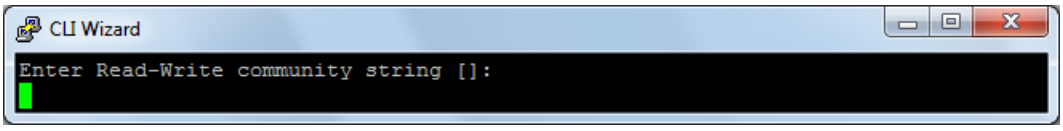
2. At the prompt, type the read-only SNMP community string, and then press Enter:

Figure 5-15: Configuring Read-Only SNMP Community String



3. At the prompt, type the read-write SNMP community string, and then press Enter:

Figure 5-16: Configuring Read-Write SNMP Community String



4. The wizard prompts you to confirm all your configuration settings done in the CLI Wizard. Continue with the procedure for confirming configuration, described in Section 5.4 on page 20.

5.4 Confirming Configuration Settings

Once you have completed the last configuration stage (i.e., SNMP settings described in Section 5.3 on page 19), you are prompted by the CLI Wizard to confirm all your configuration settings. Once confirmed, the CLI Wizard applies your settings to the device's flash memory (i.e., the device undergoes a reset).

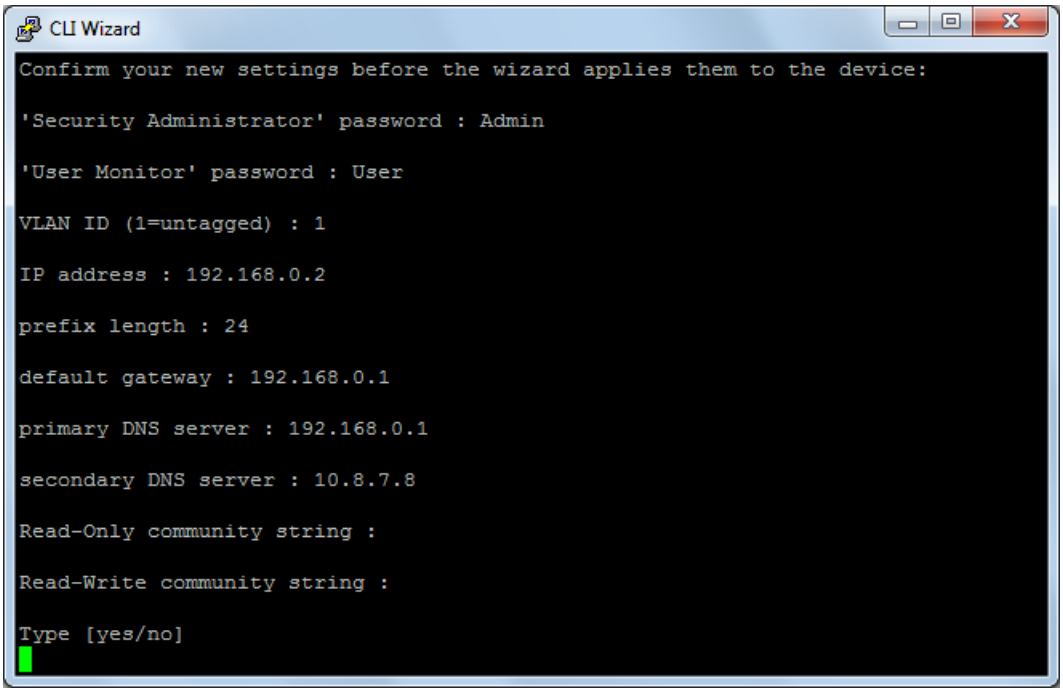
Notes:

- After you have confirmed your settings and the CLI Wizard has applied them to your device, you cannot use the CLI Wizard again unless you restore the device to factory defaults, as described in Chapter 3 on page 11.
- If you did not make any changes in the CLI Wizard, after the last stage in the CLI Wizard, you are exited from the wizard and returned to the enable mode prompt #.

➢ **To confirm and apply your settings:**

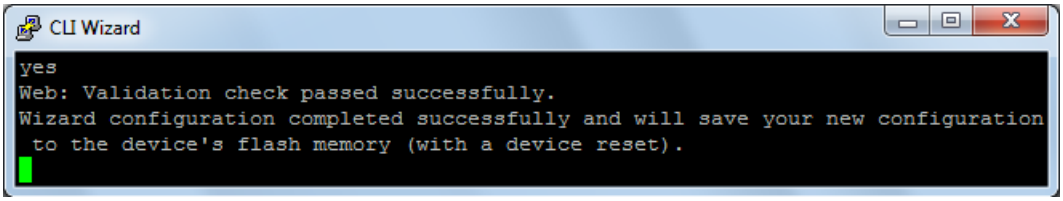
1. When the last configuration stage is complete, the wizard prompts you to confirm your settings. The CLI Wizard displays all its configurable parameters with their values (default or user-defined), as shown in the example below of the Group-A products:

Figure 5-17: Confirming Configuration (e.g., Group-A Products)



2. To confirm your settings, type **yes**, and then press Enter; the CLI Wizard checks that your configuration is valid and if yes, saves the configuration to the device's flash memory with a device reset. This may take a few minutes. (Otherwise, type **no** to skip this step and continue with Step 3.)

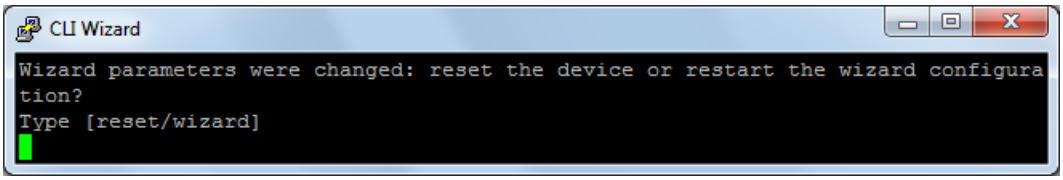
Figure 5-18: CLI Wizard Applying Configuration to Device



When the CLI Wizard finishes saving your configuration, you are exited from the CLI Wizard and returned to the CLI prompt that appears when CLI sessions are initially established (see Chapter 2 on page 9).

3. If you typed **no** in Step 2 above, the wizard prompts you with two options:

Figure 5-19: CLI Wizard Resetting Device without Applying Configuration



- **reset**: Resets the device without applying your settings (i.e., remains at default settings) and quits the CLI Wizard, returning you to the initial CLI prompt.
- **wizard**: Returns you to the beginning of the CLI Wizard (i.e., Web/CLI users' password configuration stage), allowing you to start your configuration from scratch. Your previous settings in the CLI Wizard are ignored and remain at default.

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6 Connecting to Device's OAMP Interface

Once the CLI Wizard has applied and "burnt" your settings to the device, you can access the device's management interface over the IP network and start configuring it.

The procedure below describes how to access the device's Web-based management interface. However, you can also access the device using other remote management platforms such as telnet or SNMP.

➢ **To access the device's management interface:**

1. Disconnect the cable connected to the device's RS-232 port interface.
2. Connect the device's Ethernet port to your IP network. You must use the Ethernet port as specified in the beginning of the OAMP configuration stage of the CLI Wizard (see Section 5.2 on page 16). If you are unsure of which port, refer to the "Configuring VoIP LAN Interface for OAMP" chapter in the *User's Manual*.
3. On the PC management station, open a Web browser and then in the URL field, enter the device's OAMP IP address that you configured in Section 5.2 on page 16 (for example, http://10.15.7.95/); the Web Login page of the device's Web-based management interface opens.
4. Log in to the management interface with the login username and password that you configured in Section 5.1 on page 15; otherwise, use the default username and password - "Admin" and "Admin" respectively (case-sensitive).

AudioCodes

User's Manual

www.audiocodes.com