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# Using the ELIOS Software

## Navigation and Basic Operation Guide

This document provides basic information for using the Encore Legacy-to-IP Operating System™ (ELIOS™) software, the operating system for all BANDIT™ products.

- ! **Caution:** If you are going to use the automated FastCONNECT™ system to configure the BANDIT device, you must do so before you start the software and before you enter the configuration menus. See [Using FastCONNECT](#).

To open the ELIOS software, see [Starting the ELIOS Software](#). Then see the following:

- [Basic Configuration Steps](#)
- [Loading the Default Configuration](#)
- [Saving \(Writing\) a Configuration](#)
- [Resetting the Device](#)
- [Exiting a Session](#)

### 3.1 Basic Configuration Steps

The following discussions guide you in preliminary steps:

- [Navigating through the Menus](#)

A subsequent section provides an overview of configuration. It directs you to further information:

- [Configuring Parameters](#)

**Note:** After configuring parameters, you must perform the procedures in the following sections if you wish to save the new configuration:

- [Saving \(Writing\) a Configuration](#)
- [Resetting the Device](#)

- ! **Caution:** A BANDIT device will time out after five (5) minutes of no communication with its management terminal (for example, a PC). When the device times out, it loses any unsaved information.

If you have revised a configuration and you wish to keep the revised configuration, make sure you save it before leaving the console. See [Saving \(Writing\) a Configuration](#).

### 3.1.1 Navigating through the Menus

- 1 To move around in the ELIOS menus, type the line number of the item you wish to configure. For example, on the Main Menu, select **Typical Configurations** (by typing **2**) or select **View Current Unit Status** (by typing **V**).

**Note:** To avoid confusion, the documentation usually says to select the name of the item you wish to configure, rather than the item's line number. Regardless of the wording, always type the line number for the specified item.

- ❖ The menu is displayed for the item you selected.

```

Typical Configurations Menu
-----
1) System Configuration
2) IP Interfaces
3) IP Static Routes
4) VPN Profiles
5) IP/VPN Policies
6) NAT Profiles
7) DNS/DHCP Servers
8) Configure Firewall
9) IP QoS (Quality of Service)

L) LAN      : EtherNet          No DHCP          ETHERNET
W) WAN      : EtherNet          No DHCP          ETHERNET
M) MODEM    : Point-to-Point    MODEM            INTERNAL
S) SERIAL   : Frame Relay       SERIAL           V.24/RS232 DCE
B) RDU/IDU  Ports...
P) More Ports...

Enter Choice :
```

- 2 To return to the previous menu, press the **Escape** key.

- ❖ The previous menu is displayed—in this case, the Main Menu.

**Note:** From any menu in the system, you can press **Ctrl Z** to return immediately to the Main Menu.

- ! **Caution:** A BANDIT device will time out after five (5) minutes of no communication with its management terminal (for example, a PC). When the device times out, it loses any unsaved information.

If you have revised the configuration and you wish to keep the revised configuration, make sure you save it before leaving the console. See [Saving \(Writing\) a Configuration](#).

### 3.1.2 Configuring Parameters

When you configure a BANDIT device, you need to provide basic information, such as the device name and IP address. In most cases, you also need to provide additional information. Get all IP addresses, device names, and other configuration information from your network administrator.

You can use the following methods to configure parameters for the BANDIT devices:

- 1 Encore Networks, Inc., has prepared standard configurations (in a QuickStart Config Builder menu) that save considerable time. See [Section 3.5.1, Start-Up Configurations](#), in the *BANDIT II and BANDIT III Expanded Configuration Guide*.

**Note:** If you use the **QuickStart Config Builder** for the BANDIT device's configuration, do not configure the device name or IP address until you reach the Startup Configuration Parameters menu.

- 2 You can configure individual parameters. See [Section 3.5.2, Configuring Individual Parameters](#), in the *BANDIT II and BANDIT III Expanded Configuration Guide*.
- 3 It is time-consuming to configure every parameter of a configuration, but you may wish to configure some parameters according to special situations. If you like, you can use [Step 1](#) (above) for the basic configuration, and then use [Step 2](#) to customize the configuration.
- 4 When you wish to save and use the configuration (or if you are leaving the console and do not want to lose the configuration), perform the following procedures:
  - a [Saving \(Writing\) a Configuration](#)
  - b [Exiting a Session](#)

## 3.2 Loading the Default Configuration

The factory-loaded default configuration is already in the BANDIT device when it is shipped. If you configure some parameters, but then determine that you need to start over, you can reload that default configuration.

**Note:** After loading a default configuration, you must perform the procedures in the following sections if you wish to save that configuration:

- [Saving \(Writing\) a Configuration](#)
- [Resetting the Device](#)

**Note:** To choose a method of configuring the BANDIT, see [Configuring Parameters](#).

If you choose to use a QuickStart configuration, the BANDIT device is ready for a standard QuickStart configuration upon arrival. However, if you configure any parameter before using the QuickStart configuration procedure and then decide that you want to use QuickStart, you must reload a default configuration, to nullify parameters.

Saving the factory default configuration lets you proceed with a QuickStart configuration, described in the *BANDIT II and BANDIT III Quick Configuration Guide*. (The QuickStart options are discussed in more detail in [Section 3.5.1, Start-Up Configurations](#), of the *BANDIT II and BANDIT III Expanded Configuration Guide*.)

You can also load the default configuration if you are configuring individual parameters and want to start over.

**Note:** Remember to save this loaded configuration, as described in [Saving \(Writing\) a Configuration](#).

To load the default configuration into the BANDIT, do the following:

**1** On the Main Menu, select **Load Factory Defaults**.

❖ The following menu is displayed.

```
Load Factory Defaults
-----
Y) Yes
N) No

Are You Sure? :
```

**2** Do one of the following:

**a** To leave the current configuration as it is, press **n**.

❖ The current configuration remains. The Main Menu appears.

**b** To load the default configuration, press **y**.

❖ The following message appears.

```
Load Factory Defaults,  WAIT ...
```

❖ A message indicates that the default configuration has loaded.

```
Load Factory Defaults,  WAIT ... LOADED
```

❖ Then the Main Menu is redisplayed.

**3** If you wish to save and use the loaded configuration, see the following:

**a** *Saving (Writing) a Configuration*

**b** *Resetting the Device*

### 3.3 Saving (Writing) a Configuration

- !** **Caution:** If you do not save a device's configuration before you reset or exit the BANDIT device (or before the connection times out), the configuration will be lost.

A BANDIT times out after 5 minutes without user activity at the management terminal (for example, a PC).

After the device has been configured, save (write) its configuration. Do the following:

**1** On the Main Menu, select **Write Configuration**.

❖ The following menu is displayed.

```
Write New Configuration to Memory
-----
Y) Yes
N) No

Are You Sure? :
```

**2** Do one of the following:

**a** To exit this menu, select **No**.

❖ The current configuration remains, with any revisions you had made, but it has not been saved to memory. The Main Menu is redisplayed.

**b** To save the new configuration, select **Yes**.

❖ The system asks for the Write password.

**3** Enter the Write password.

**Note:** See [Default Passwords](#) for the standard default password for writing (saving) the configuration. (Your organization may have requested a different default password. Get all passwords from your network administrator.)

❖ A verification list, similar to the following, appears.

**Note:** If you are managing the BANDIT from a remote location via Telnet, you may need to press the **Enter** key twice. Wait about 5 seconds to determine whether it is necessary to press **Enter** again.

```
Copyright Encore Networks, Inc., 2002-2003.

Verifying Configuration, WAIT ...

Verifying Customization Records...
Verifying Frame Relay Routing Table...
Verifying Bit Sync Encapsulation Ports...
Verifying ALC Ports...
Verifying IP Static Routing Table...
Verifying IP RIP Interface Table...
Invalid MTU for IP Routing Entry
Verifying IP RIP Static Routing Table...
Verifying Filtering/Prioritization Tables ...
Verifying Remote IP Logging Configuration...
Verifying BootP/DHCP Configuration...
Verifying Local DHCP Server Configuration...
Verifying NAT Configuration ...
Verifying PPP Configuration ...
Verifying Dialup Configuration ...
Verifying Global Paths Configuration...
Global Paths Entry #2: Port SERIAL is not defined
with valid protocol
Verifying Asynchronous Encapsulation Ports...
Verifying Byte Sync Encapsulation Ports...
Verifying SDLC Routing Ports...
Verifying SNA 1490 Configuration...
Verifying X.25 Configuration...
Verifying XXX PAD Configuration...
Verifying TINTERM Configuration...
Verifying Physical Ports Mapping...
Verifying Dynamic Memory Requirements...
    Dynamic Memory Requirements: 3682712
Verifying Required EEPROM Space(Maximum 28672 bytes)...
    EEPROM Utilization: 23%
```

❖ If the BANDIT detects a problem with the configuration, it will not save the configuration. You will see a message similar to the following.

```
2 Error(s) Detected. Configuration will NOT be Saved ... ERRORS
Press Any Key to Continue ERRORS
```

**a** In this case, check the verification list for error messages about the configuration (shown in bold in the verification list, above). Then review and revise the configuration as needed. After you have revised it to your satisfaction, repeat [Step 1](#) to save the revised configuration.

❖ The BANDIT saves the revised configuration.

```
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Verifying Configuration, WAIT ...

Verifying Customization Records...
Verifying Frame Relay Routing Table...
Verifying Bit Sync Encapsulation Ports...
Verifying ALC Ports...
Verifying IP Static Routing Table...
Verifying IP RIP Interface Table...
Verifying IP RIP Static Routing Table...
Verifying Filtering/Prioritization Tables ...
Verifying Remote IP Logging Configuration...
Verifying BootP/DHCP Configuration...
Verifying Local DHCP Server Configuration...
Verifying NAT Configuration ...
Verifying PPP Configuration ...
Verifying Dialup Configuration ...
Verifying Global Paths Configuration...
Verifying Asynchronous Encapsulation Ports...
Verifying Byte Sync Encapsulation Ports...
Verifying SDLC Routing Ports...
Verifying SNA 1490 Configuration...
Verifying X.25 Configuration...
Verifying XXX PAD Configuration...
Verifying TNCTERM Configuration...
Verifying Physical Ports Mapping...
Verifying Dynamic Memory Requirements...
    Dynamic Memory Requirements: 3682712
Verifying Required EEPROM Space(Maximum 28672 bytes)...
    EEPROM Utilization: 23%
Saving Config, WAIT ...
    EEPROM Write Time : 2 seconds
```

- ❖ When the configuration has been saved, the following message appears.

```
Configuration SAVED
Press Any Key to Continue
```

- 4 When the system notifies you that the configuration has been saved, press **Enter** (or any other key).

- ❖ The message repeats the message that the configuration has been saved.

**Note:** The saved configuration will be used the next time the BANDIT III is restarted or reset.

```
Configuration SAVED
```

- ❖ Then the Main Menu is redisplayed.

## 3.4 Resetting the Device

To use the device's last saved configuration, you must restart the device. You can do this in any of the following ways:

- Let the device time out; then restart it. (It takes five minutes for the device to time out.)
- Exit the device; then restart it. (This is quicker than letting the device time out.)
- Reset the device. (This automatically exits and restarts the device. It is the most direct method for using the last saved configuration.)

**Note:** Restarting the BANDIT resets it to the last saved configuration. If you wish to save a new, revised configuration, see [Saving \(Writing\) a Configuration](#), before resetting the BANDIT. Otherwise, the new configuration will be lost.

To reset the device, do the following:

- 1 On the Main Menu, select **Reset Unit**.

❖ The following menu is displayed.

```
Reset Unit
-----
Y) Yes
N) No

Are You Sure? :
```

- 2 Do one of the following:

- a To leave the unit running, without restarting it, press **n**.

❖ The unit remains running with the current configuration. The Main Menu is redisplayed.

- b To restart the unit, press **y**.

❖ If you have made configuration changes but have not saved them, the BANDIT asks whether you wish to save the new configuration.

```
Save New Configuration? (Enter Y (Yes) or N (No)) :
```

- 3 Do one of the following:

- a If you wish to save the new configuration, enter **y**.

❖ The system asks for the **Write** password. Enter that password. The system saves the configuration; then the reset continues. The following message appears. Go to [Step 4](#).

```
Resetting this Unit, Wait for few Seconds, Press ENTER to
Continue
```

**b** If you do not wish to save the new configuration, enter **n**.

❖ The unit restarts. The following messages appear.

```
Old Configuration Restored!
```

```
Resetting this Unit, Wait for few Seconds, Press ENTER to
Continue
```

**4** Regardless of screen instructions, do not type anything until you see the login prompt.

```
Press <ENTER> to login
```

**5** After you see the login prompt, press **Enter**.

❖ The BANDIT restarts and the terminal displays the Main Menu.

### 3.5 *Exiting a Session*

When you have finished configuring the software, save (write) the configuration. Then exit the software session before disconnecting the PC, so that communication is not disrupted.

**!** **Caution:** Before you exit, make sure you save (write) the configuration. Otherwise, the changes you configured will be lost. See [Saving \(Writing\) a Configuration](#).

To exit the session, do the following:

**1** On the BANDIT's Main Menu, select **Exit Session**.

❖ The following message appears.

```
Exit Session
-----
Y) Yes
N) No

Are You Sure? :
```

**2** Do one of the following:

**a** To keep the session active, type **n**.

❖ The Main Menu is redisplayed.

**b** To end the session, type **y**.

❖ If you have changed any of the BANDIT's configuration since the last time you saved it, the following message appears.

```
Save New Configuration? (Enter Y (Yes) or N (No)) :
```

**3** Do one of the following:

**a** Type **n** if you prefer not to save the configuration.

❖ The following message appears, and the session closes.

```
Old Configuration Restored!  
Ending Session...
```

**b** Type **y** to save the configuration.

❖ The system notifies you that it is saving the configuration.

❖ Information similar to the following appears.

```
Copyright Encore Networks, Inc., 1993-2002.

Verifying Configuration, WAIT ...

Verifying Customization Records...
Verifying Frame Relay Routing Table...
Verifying Bit Sync Encapsulation Ports...
Verifying ALC Ports...
Verifying IP Static Routing Table...
Verifying IP RIP Interface Table...
Verifying IP RIP Static Routing Table...
Verifying Filtering/Prioritization Tables ...
Verifying Remote IP Logging Configuration...
Verifying BootP/DHCP Configuration...
Verifying NAT Configuration ...
Verifying PPP Configuration ...
Verifying Dialup Configuration ...
Verifying Global Paths Configuration...
Verifying Asynchronous Encapsulation Ports...
Verifying Byte Sync Encapsulation Ports...
Verifying SDLC Routing Ports...
Verifying Physical Ports Mapping...
Verifying Dynamic Memory Requirements...
    Dynamic Memory Requirements: 792576
Verifying Required EEPROM Space(Maximum 3568 bytes)...
    EEPROM Utilization: 26%
Saving Config, WAIT ...
    EEPROM Write Time : 4 seconds
```

❖ When the save routine has finished, the following message appears:

```
Configuration SAVED
Press Any Key to Continue
```

**4** Press a key to continue.

❖ The following message appears, and the session closes.

```
Configuration SAVED
Ending Session...
```

**Note:** To start a new session on the BANDIT device, press **Enter** and follow the instructions in [Section , Starting the ELIOS Software](#).

