Helper Utility

You can use the helper utility to perform the following tasks on your Cisco Security Packet Analyzer 2400 series appliance:

Note For information about accessing the helper utility, see Recovery Installation, page 6-3.

Figure E-1 Helper Utility Menu

```
================================================================================
Cisco Systems, Inc.
Network Analysis Module (SEC-PA-2400-K9) helper utility
Version 1.1(0.25)

-----
Main menu
1 - Download application image and write to HDD
2 - Download application image and reformat HDD
3 - Install application image from CD and reformat HDD
4 - Display software versions
5 - Reset application image CLI passwords to default
6 - Send Ping
7 - Configure Capture RAID settings
8 - Install application image from flash and reformat HDD
f - Check for and fix file system errors on local disk
s - Show upgrade log
n - Configure network
r - Exit and reset Services Engine
h - Exit and shutdown Services Engine
```

The following sections describe the Helper Utility Menu, what each option does, and any requirements for using a particular option.

Helper Utility Menu Summary

Table E-1 Helper Utility Menu Options Summary

Menu Option	Description	See...
1	Download the application image and write it to the hard disk drive.	Option 1 - Download Application Image and Write to HDD, page E-3
2	Download the application image and reformat the hard disk drive.	Option 2 - Download Application Image and Reformat HDD, page E-4
3	Install the application image from a CD.	Option 3 - Install Application Image from CD, page E-4
4	Display the current Cisco Security Packet Analyzer application image version stored on your hard disk.	Option 4 - Display Software Versions, page E-4
5	Reset the password for users root and admin to their default values.	Option 5 - Reset Application Image CLI Passwords to Default, page E-5
6	Send a ping to determine if network connectivity exists.	Option 6- Send Ping, page E-5
7	Configure Capture RAID settings.	Option 7 - Configure Capture RAID Settings, page E-5
8	Install the application image from flash and reformat the hard disk drive.	Option 8 - Install Application Image From Flash and Reformat HDD, page E-6
f	Check for and fix file system errors on the local disk.	Option f - Check For and Fix Filesystem Errors on Local Disk, page E-6
s	Display the upgrade log.	Option s - Show Upgrade Log, page E-6
n	Configure the network parameters for the appliance	Option n - Configure Network, page E-2
r	Exit the helper utility and power cycle (reboot) into the Cisco Security Packet Analyzer application image.	Option r - Exit and Reset Services Engine, page E-6
h	Exit the helper utility and shut down the Cisco Security Packet Analyzer appliance.	Option h - Exit and Shutdown Services Engine, page E-6

Option n - Configure Network

Use **Option n** to configure the network parameters for the appliance.

Step 1 When the Configure Network Interface menu displays, enter **1** to configure the network manually.

```
-----
Configure Network interface:
1 - Configure network manually
2 - Show config
3 - Write config to application image
r - return to main menu
Selection [123r]: 1
```

Step 2 The utility prompts you for the IP address, netmask, and default gateway for the appliance.

```
Enter IP configuration:
IP address []: 172.20.122.93
netmask []: 255.255.255.128
default gateway []: 172.20.122.1

-----
Configure Network interface:
1 - Configure network manually
2 - Show config
3 - Write config to application image
r - return to main menu
Selection [123r]:
```

Step 3 To check your network configuration, enter **2**.

```
Selection [123r]: 2

eth0      Link encap:Ethernet HWaddr 00:0E:0C:EE:50:3E
          inet addr:172.20.122.93 Bcast:172.20.122.127 Mask:255.255.255.128
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:210 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:13632 (13.3 KiB)  TX bytes:0 (0.0 b)

Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref     Use Iface
172.20.122.0     0.0.0.0        255.255.255.128 U       0      0      0 eth0
0.0.0.0          172.20.122.1    0.0.0.0      UG   0     0      0 eth0
-----
Configure Network interface:
1 - Configure network manually
2 - Show config
3 - Write config to application image
r - return to main menu
Selection [123r]:
```

Option 1 - Download Application Image and Write to HDD

Use **Option 1** to download a version of the current application image from an FTP server location and write the image to the hard disk.

Note If the Cisco Security Packet Analyzer application has already been installed and the network settings were configured, they will be automatically be detected by the helper. Otherwise, you must use **Option n** to configure the network *before* using this option.

This option downloads a version of the current application from an FTP server location or from a location you can access using HTTP. You can also download the latest Cisco Security Packet Analyzer software version from Cisco.com.

This URL requires you to have a Cisco service agreement and access to the internet to download the zipped software.

Option 2 - Download Application Image and Reformat HDD

Use **Option 2** to download the current application image and write the image to the hard disk.

Caution Using this option reformats the hard disk before writing the application image and will destroy all data such as reports, packet captures, and configuration. Network connectivity configuration, however, will be retained.

Note If the Cisco Security Packet Analyzer application has already been installed and the network settings were configured, they will be automatically be detected by the helper. Otherwise, you must use **Option n** to configure the network *before* using this option.

This option downloads a version of the current application image from an FTP server location or from a location you can access using HTTP. You can also download the latest Cisco Security Packet Analyzer software version from Cisco.com.

This URL requires you to have a Cisco service agreement and access to the internet to download the zipped software.

Option 3 - Install Application Image from CD

Use **Option 3** to install the current application image from the recovery CD. This option might be necessary if you are unable to connect to your network and download a version of Packet Analyzer software you archived earlier.

Caution This option reformats the hard disk before writing the application image and will destroy all data such as reports, packet captures, and configuration. Network connectivity configuration, however, will be retained.

Note The version of Packet Analyzer software available on the recovery CD is the *first release* of the software and has no patches or upgrades. If you use this option, see Upgrading Your Software, page 6-2.

Option 4 - Display Software Versions

Use **Option 4** to display the current Cisco Security Packet Analyzer application image version stored on your hard disk.

```
Selection [123456789dnfrh]:4

-----
SECPA application version: 6.2(2) RELEASE SOFTWARE

Selection [123456789dnfrh]:
```

Option 5 - Reset Application Image CLI Passwords to Default

Use **Option 5** to reset the password for users root and admin to their default values.

Option 6- Send Ping

Use **Option 7** to send a ping to determine if network connectivity exists. When prompted, enter the IP address or full domain name of the location to send the ping.

```
IP address to ping []: 172.20.122.91

Sending 5 ICPM ECHO_REQUEST packets to 172.20.122.91.
PING 172.20.122.91 (172.20.122.91) 56(84) bytes of data.
64 bytes from 172.20.122.91: icmp_seq=1 ttl=64 time=0.151 ms
64 bytes from 172.20.122.91: icmp_seq=2 ttl=64 time=0.153 ms
64 bytes from 172.20.122.91: icmp_seq=3 ttl=64 time=0.125 ms
64 bytes from 172.20.122.91: icmp_seq=4 ttl=64 time=0.102 ms
64 bytes from 172.20.122.91: icmp_seq=5 ttl=64 time=0.166 ms

--- 172.20.122.91 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4000ms
rtt min/avg/max/mdev = 0.102/0.139/0.166/0.025 ms
```

Option 7 - Configure Capture RAID Settings

Use **Option 8** to configure the Capture RAID settings. This option contains the following suboptions:

```
-----
Capture RAID Menu
1 - Rebuild all failed disks
2 - Add all new disks to the Capture RAID
3 - Decommission the Capture RAID (destructive)
4 - Construct the Capture RAID (destructive)
c - Show current Capture RAID configuration
p - Show all progress of Capture RAID reconfiguration
r - return to main menu
_
Selection [1234cpr]:
```

The following table describes each of these suboptions.

Table E-2 Capture RAID Menu Options

Menu Option	Description
1	Rebuild all failed disks.
2	Add new disks to the Capture RAID. If any disks have been installed since the last Cisco Security Packet Analyzer application reformat install, the RAID will be expanded to include them.
3	Decommission the Capture RAID. Using this option cleans the hard disk and will destroy only the capture data; all other data is on the system RAID.

Table E-2 Capture RAID Menu Options

Menu Option	Description
4	Construct the Capture RAID.
c	Show the current Capture RAIID configuration.
p	Show the progress of the Capture RAID reconfiguration.
r	Return to the main menu.

Option 8 - Install Application Image From Flash and Reformat HDD

Use **Option 9** to install the application image from flash and reformat the hard disk.

Caution This option reformats the hard disk before writing the application image and will destroy all data such as reports, packet captures, and configuration. Network connectivity configuration, however, will be retained.

Note If the Cisco Security Packet Analyzer application has already been installed and the network settings were configured, they will be automatically be detected by the helper. Otherwise, you must use **Option n** to configure the network *before* using this option.

Option f - Check For and Fix Filesystem Errors on Local Disk

Use **Option f** to find and fix file system errors on the local disk. Depending on the partition size, this option might take a long time.

Option s - Show Upgrade Log

Use **Option s** to display the upgrade log.

Option r - Exit and Reset Services Engine

Use **Option r** to exit the helper utility and power cycle (reboot) into the newly installed application image.

Option h - Exit and Shutdown Services Engine

Use **Option h** to exit the helper utility and shut down the Cisco Security Packet Analyzer appliance.

```
--------------------------------------------------------------------------
Selection [12345678fsnrh]: h
About to exit and shutdown SECPA.
Are you sure? [y/N] y
Stopping internet superserver: inetd.
Stopping OpenBSD Secure Shell server: sshd.
Stopping internet superserver: xinetd.
Stopping internet superserver: xinetd-ipv4.
: done.
Shutting down SECPA (SECPA2400-K9), part 1:
Stopping klogd . . .
Stopping syslogd . . .
Sending all processes the TERM signal... done.
Sending all processes the KILL signal... done.
Unmounting remote filesystems... done.
Deactivating swap...done.
Unmounting local filesystems...done.
Starting halt command: halt
Power down.
--------------------------------------------------------------------------------------------
```