Check Point 4000 Appliances

Getting Started Guide

15 April 2012

Models: T-120, T-160 and T-180

Important Information

Latest Software

We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

Latest Documentation

The latest version of this document is at:
http://supportcontent.checkpoint.com/documentation_download?ID=12292

For additional technical information, visit the Check Point Support Center (http://supportcenter.checkpoint.com).

For more about this appliance, see the Check Point 4000 Appliances home page (http://supportcontent.checkpoint.com/solutions?id=sk68681).

Revision History

Date	Description
31 October 2011	Updated Flow Control settings in *Connecting to the CLI* and *Restoring Using the Console Boot Menu*
15 August 2011	First release of this document

Feedback

Check Point is engaged in a continuous effort to improve its documentation.

Please help us by sending your comments (mailto:cp_techpub_feedback@checkpoint.com?subject=Feedback on Check Point 4000 Appliances Getting Started Guide).

Safety, Environmental, and Electronic Emissions Notices

Read the following warnings before setting up or using the appliance.

Warning - Do not block air vents. A minimum 1/2-inch clearance is required.

Warning - This appliance does not contain any user-serviceable parts. Do not remove any covers or attempt to gain access to the inside of the product. Opening the device or modifying it in any way has the risk of personal injury and will void your warranty. The following instructions are for trained service personnel only.

To prevent damage to any system board, it is important to handle it with care. The following measures are generally sufficient to protect your equipment from static electricity discharge:

- When handling the board, to use a grounded wrist strap designed for static discharge elimination.
- Touch a grounded metal object before removing the board from the antistatic bag.
- Handle the board by its edges only. Do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling processor chips or memory modules, avoid touching their pins or gold edge fingers.
- Restore the communications appliance system board and peripherals back into the antistatic bag when they are not in use or not installed in the chassis. Some circuitry on the system board can continue operating even though the power is switched off.
- Under no circumstances should the lithium battery cell used to power the real-time clock be allowed to short. The battery cell may heat up under these conditions and present a burn hazard.

  Warning - DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

- Disconnect the system board power supply from its power source before you connect or disconnect cables or install or remove any system board components. Failure to do this can result in personnel injury or equipment damage.

- Avoid short-circuiting the lithium battery; this can cause it to superheat and cause burns if touched.
- Do not operate the processor without a thermal solution. Damage to the processor can occur in seconds.
- Class 1 Laser Product Warning

Rack Mount Instructions

The following or similar rack-mount instructions are included with the installation instructions:

1. Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer.
2. Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
3. Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
4. Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
5. Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

For California:

Perchlorate Material - special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate

The foregoing notice is provided in accordance with California Code of Regulations Title 22, Division 4.5, Chapter 33. Best Management Practices for Perchlorate Materials. This product, part, or both may include a lithium manganese dioxide battery which contains a perchlorate substance.

Proposition 65 Chemical

Chemicals identified by the State of California, pursuant to the requirements of the California Safe Drinking Water and Toxic Enforcement Act of 1986, California Health & Safety Code s. 25249.5, et seq. ("Proposition 65"), that is "known to the State to cause cancer or reproductive toxicity" (see http://www.calepa.ca.gov)

WARNING:

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Federal Communications Commission (FCC) Statement:

For a Class A digital device or peripheral

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For a Class B digital device or peripheral

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to user:

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

Canadian Department Compliance Statement:

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Japan Compliance Statement:

Class A

この装置は，クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI－A

Class B

この装置は，クラスB情報技術装置です。この装置は，家庭環境で使用することを目的としていますが，この装置がラジオやテレビジョン受信機に近接して使用されると，受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 VCCI－B

European Union (EU) Electromagnetic Compatibility Directive

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2004/108/EC). For the evaluation regarding the Electromagnetic Compatibility (2004/108/EC)

This product is in conformity with Low Voltage Directive 2006/95/EC, and complies with the requirements in the Council Directive 2006/95/EC relating to electrical equipment designed for use within certain voltage limits and the Amendment Directive 93/68/EEC.

Product Disposal

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.

Contents

Chapter 1

Introduction

In This Chapter

Welcome

Thank you for choosing Check Point's Check Point 4000 Appliances. We hope that you will be satisfied with this system and our support services. Check Point products are the most up to date and secure solutions available today.

Check Point also delivers worldwide educational, professional and support services through a network of Authorized Training Centers, Certified Support Partners and Check Point technical support personnel. We make sure that you get the most out of your security investment.

For more about the Internet Security Product Suite and other security solutions, see the Check Point Web site (http://www.checkpoint.com), or call Check Point at 1(800) 429-4391. For more technical information about Check Point products, consult the Check Point Support Center (http://supportcenter.checkpoint.com).

Welcome to the Check Point family. We look forward to meeting all of your current and future network, application and management security needs.

Check Point 4000 Appliances Overview

The family of Check Point 4000 Appliances enables organizations to maximize security in high-performance environments such as large campuses or data centers. Combining integrated firewall, IPSec VPN, and intrusion prevention with advanced acceleration technologies, Check Point 4000 Appliances deliver a high-performance security platform capable of blocking application layer threats. Even as new threats appear, Check Point 4000 Appliances maintain or increase performance while protecting the network against attacks.

Key Features:

- Proven, enterprise-class firewall, VPN, and intrusion prevention
- Accelerated security performance, including SecureXL and CoreXL technologies
- Integrated load balancing and dynamic routing for data center reliability levels
- Centrally managed from Security Management Server/Check Point 4000 Appliances or as a stand alone device
- Automatic security protection updates from Check Point

This document provides:

- A brief overview of essential Check Point 4000 Appliances concepts and features
- A step by step guide to getting Check Point 4000 Appliances up and running

Note - Screenshots in this guide may apply only to the highest model to which this guide applies.

Upgrading the Appliance

You can upgrade these components of the Check Point 4000 Appliances:

- Memory DIMMs (4800 only)
- LOM card (4800 only)
- Appliance firmware

Important - You cannot upgrade the appliance firmware while using the 15 days trial license.

For more information about upgrading the appliance, see the applicable documentation (http://supportcontent.checkpoint.com/solutions?id=68681).

- *4800 Appliance Installing and Removing Memory*
- *4800 and 12000 Appliances Installing and Removing a LOM Card*
- *4000 Appliances Image Management*
- *4000 and 12000 Appliances Mounting Appliances with Sliding Rails*

Shipping Carton Contents

This section describes the contents of the shipping carton.

Item	Description
Appliance	Check Point 4000 Appliance

Item	Description
Rack Mounting Accessories	Hardware mounting kit
Cables	• Power cable • 1 Standard RJ-45 network cable • 1 Serial console cable
Documentation	• Quick Start Guide • Getting Started Guide • Image Management Guide • User license agreement

Terminology

The following terms are used in this guide:

- **Gateway**: The security engine that enforces the organization's security policy and acts as a security enforcement point.
- **Security Policy**: The policy created by the system administrator that regulates the flow of incoming and outgoing communication.
- **Security Management Server**: The server used by the system administrator to manage the security policy. The organization's databases and security policies are stored on the Security Management Server and downloaded to the gateway.
- **SmartConsole**: GUI applications that are used to manage various aspects of security policy enforcement. For example, SmartView Tracker is a **SmartConsole** application that manages logs.
- **SmartDashboard**: A **SmartConsole** GUI application that is used by the system administrator to create and manage the security policy.
- **Locally Managed Deployment**: When all Check Point components responsible for both the management and enforcement of the security policy (the Security Management Server and the gateway) are installed on the same machine.
- **Centrally Managed Deployment**: When the gateway and the Security Management Server are installed on separate machines.

Chapter 2

Rack Mounting

This chapter describes how to mount the appliance in a rack.

Important - Two people are required to install the appliance in a rack in order to prevent any possible damage.

In This Chapter

Rack Mounting Hardware and Tools

You must install rack mounting hardware on the appliance before you mount it in a rack.

Hardware Description	Qty.	Use
Ear mount bracket	2	Attaches to the appliance front panel. Both ear mount brackets are identical.
Ear mount screws	6	Secures the ear mount brackets to the appliance front panel. These screw heads are smaller (5 mm).
Appliance rail	2	Attaches to the appliance. Both rails are identical.
Rail plates	2	Attaches to the appliance rails. Both plates are identical.
Appliance rail screws	14	Secures the rail plates to the appliance rails and the rails to the appliance. These screw heads are larger (8 mm).

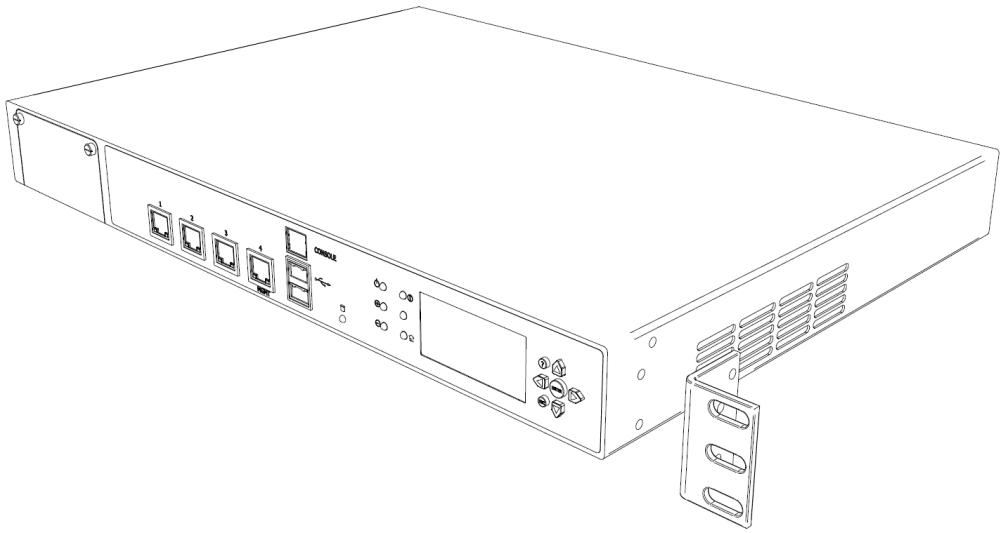
Rack Mounting Tools

- Philips screwdriver. A magnetic head is recommended to hold screws in place and retrieve dropped screws. A powered screwdriver is also useful.

Note - Screws to attach the ear mount brackets and rail plates to the rack are not included.

Attaching the Ear Mount Brackets to the Appliance

Attach the two ear mount brackets to the front of the appliance.



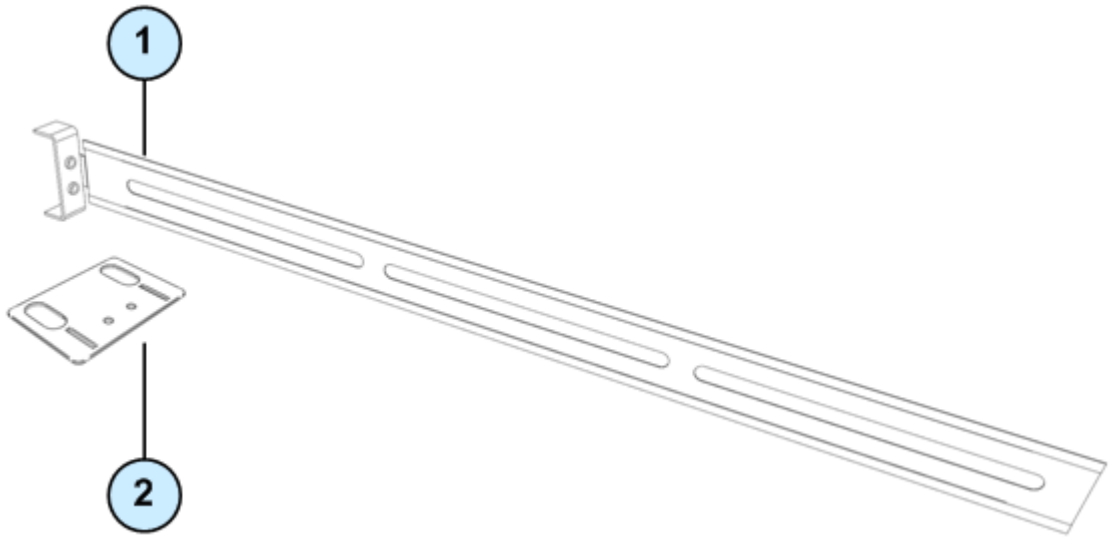
Note - The ear mount screws have 5 mm heads.

To attach the ear mount brackets to the appliance:

1. Attach the appliance ear bracket to one side of the appliance using three ear mount screws.
2. Do step 1 again for the other side of the appliance.

Attaching the Rail Plates

Attach the rail plates to the appliance rails to connect the appliance to the rear vertical rails of the rack.



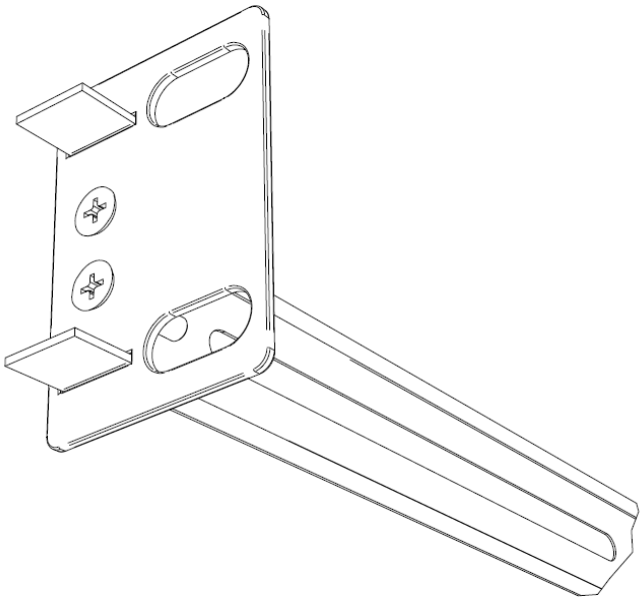
Item	Description
1	Appliance rail
2	Rail plate

Note - The appliance rail screws have 8 mm heads.

To attach the rail plates:

1. Attach a rail plate to an appliance rail using two appliance rail screws.

2. Do step 1 again for the other rail plate and appliance rail.



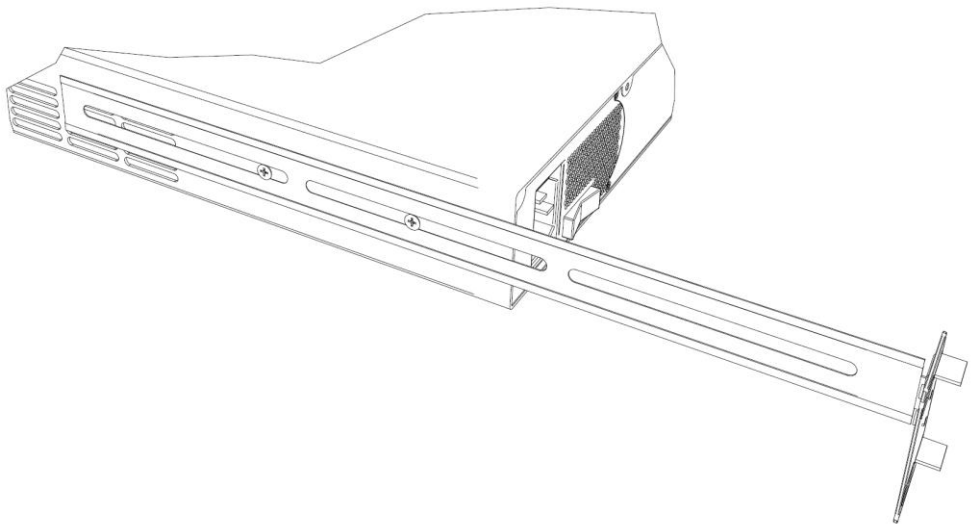
Attaching the Appliance Rails to the Appliance

Attach the appliance rails to the sides of the appliance. Align the rail plates to connect the appliance rails to the rear of the rack.

Note - The appliance rail screws have 8 mm heads.

To attach the appliance rails:

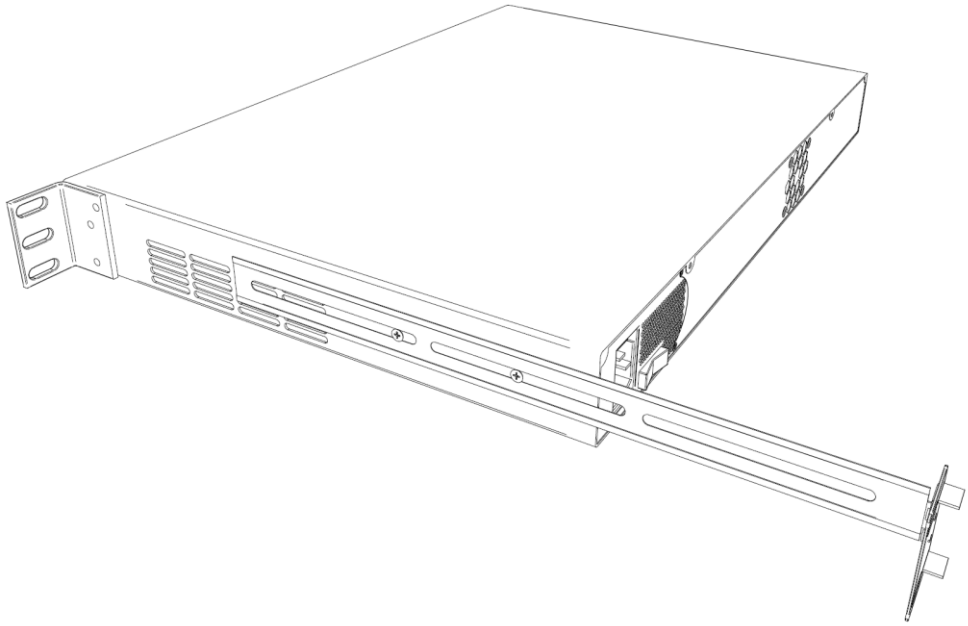
1. Set the appliance rail on the side of the appliance. The ridges on the appliance rails point to the appliance.



2. Attach the appliance rails to the appliance using three appliance rail screws.
3. Do steps 1 and 2 again for the other side of the appliance.

Installing the Appliance in the Rack

Install the appliance in the rack. It may be necessary to adjust the appliance rails to secure the appliance to the rack.



Important - Two people are required to install the appliance in a rack in order to prevent any possible damage.

To install the appliance in the rack:

1. Attach the ear mount brackets to the front of the rack.
2. Attach the rail plates to the rear of the rack.
3. Confirm that the appliance is stable and secure in the rack.

Chapter 3

Configuring Check Point 4000 Appliances

The workflow for configuring Check Point 4000 Appliances is:

1. Connect the cables and power on the appliance.
2. Use the First Time Configuration Wizard to configure the appliance.
3. Add the Check Point 4000 Appliances object in SmartDashboard and install a policy.

In This Chapter

Powering On

To power on Check Point 4000 Appliances:

1. Connect the power cable.
2. On the back panel, turn on the **Power** button to start the appliance.

Note - For the Check Point 4800, when a power supply fails or is not connected to the outlet, an alarm sounds continuously. If you hear the alarm, replace the faulty power supply immediately, and connect the new unit to an A/C outlet ("Removing the Power Supply" on page 37).

3. Wait for the appliance to initialize and boot. The status of the appliance appears on the LCD screen:

The appliance is ready for use when the model number is displayed.

Using the First Time Configuration Wizard

Set up the Check Point 4000 Appliances with the First Time Configuration Wizard.

During the wizard:

- Click **Quit** to exit.
- Click **Next** to move to the next page of the wizard.

Note - In the First Time Configuration Wizard, you may not see all the windows that are described in this guide. The windows that show in the wizard depend on the Check Point 4000 Appliances software image and the options you select.

Starting the First Time Configuration Wizard

To start the First Time Configuration Wizard:

1. Connect a standard network cable to the appliance's management interface and to your management network.

   The management interface is marked **MGMT**. This interface is preconfigured with the IP address `192.168.1.1`.

2. Connect to the management interface, from a computer on the same network subnet as the management interface.

   For example: IP address `192.168.1.x` and netmask `255.255.255.0`. This can be changed in the WebUI.

3. To access the management interface, open a connection from a browser to the default management IP address: `https://192.168.1.1:4434`.

   Note - Pop-ups must always be allowed on `https://<appliance_ip_address>`.

   The login page opens.
4. Log in to the system using the default login name/password: **admin/admin** and click **Login**.

   Note - The features configured in the wizard are accessible after completing the wizard via the WebUI menu. The WebUI menu can be accessed by navigating to `https://<appliance_ip_address>:4434`.
5. Change the administrator password, as prompted. The default password gives you access to the appliance. For security purposes, you must change it to a more secure password.

   In the Password recovery login token section, download a Login Token to use if you forget the password. We recommend that you save the password recovery login token file in a safe storage.
6. The **First Time Configuration Wizard** runs.

   The First Time Configuration Wizard shows windows that help you to configure the appliance.

Welcome

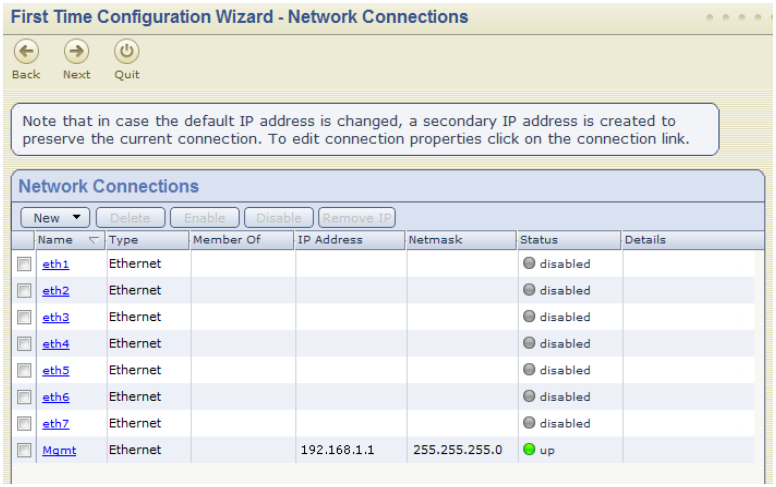
The **Welcome** page summarizes the steps of the First Time Configuration Wizard.

Appliance Date and Time Setup

Configure date and time in the **Date and Time Setup** page. Click **Apply**.

Network Connections

Configure the network connections in the **Network Connections** page.



You can change the Management IP address. Connectivity is maintained with an automatically created secondary interface. You can remove this interface after you complete the First Time Configuration Wizard in the **Network > Network Connections** page.

Routing Table

Configure the routing settings on the **Routing Table** page.

Host, Domain Settings, and DNS Servers

Set the Host, Domain and DNS Servers in the **Host, Domain Settings, and DNS Servers** page.

The host name must start with a letter and cannot be named com1, com2....com9.

In the DNS section, set the DNS servers for the appliance.

Management Type

Set how the appliance is managed in the **Management Type** page.

- **Locally Managed Deployment**: The appliance is a Security Gateway and a Security Management server. The Security Management server manages the Security Policy that is enforced by the Security Gateway.
- **Centrally Managed Deployment**: The appliance is a Security Gateway, without a Security Management server. The Security Gateway is managed by a remote Security Management server.

Locally Managed Deployment

This section describes how to configure the appliance for locally managed deployment.

Check Point Cluster

Configure the cluster type. If you select **This appliance is part of a Check Point 4000 Appliances Cluster**, the options are:

- **Primary cluster member**
- **Secondary cluster member**

For information about clusters, see the *ClusterXL Administration Guide* (http://supportcenter.checkpoint.com) for your Check Point version.

Web/SSH and GUI Clients Configuration

Define the clients that are allowed to connect to the appliance using a web browser or SSH client. These clients can manage the appliance using a web or SSH connection.

You can define a **Host** according to **Hostname** or **IP address**. Enter a comma-separated list of IP addresses from which you manage the appliance. Enter `Any` to manage the appliance from anywhere.

Note - Do not use the `Any` value for security reasons.

After you complete the First Time Configuration Wizard, more options are available using the **WebUI** menu.

Download SmartConsole Applications

Configuring a security policy for a **Locally Managed** Check Point 4000 Appliances (configured in the **Management Type** page) requires you to install the SmartConsole applications. In the **Download SmartConsole Applications** window, you can download SmartConsole and install it on Windows machines.

The release notes of your Check Point version in the Check Point Support Center (http://supportcenter.checkpoint.com), lists compatible Windows operating systems for SmartConsole.

Centrally Managed Deployment

This section describes how to configure the appliance for centrally managed deployment.

Gateway Type

Configure the gateway type for a *Centrally Managed* Check Point 4000 Appliances.

Web/SSH and GUI Clients Configuration

Define the clients that are allowed to connect to the appliance using a web browser or SSH client. These clients can manage the appliance using a web or SSH connection.

You can define a **Host** according to **Hostname** or **IP address**. Enter a comma-separated list of IP addresses from which you manage the appliance. Enter `Any` to manage the appliance from anywhere.

Note - Do not use the `Any` value for security reasons.

After you complete the First Time Configuration Wizard, more options are available using the **WebUI** menu.

SIC Setup

Configure the SIC (Secure Internal Communication) settings for a **Centrally Managed** appliance. Enter a **SIC Activation Key**. The same key is used by the gateway object in SmartDashboard.

Summary

The **Summary** page opens.

Click **Finish** to complete the First Time Configuration Wizard. You can log in to the appliance after some minutes.

Note - You should back up the system configuration. Open the WebUI interface and go to **Appliance > Backup and Restore**.

Creating the Network Object

Configure the Check Point 4000 Appliances as a gateway object in the Security Management Server database.

To create the network object in SmartDashboard:

1. Launch SmartDashboard.
2. Configure a new gateway object for the appliance.
3. Enter the IP address for the appliance.
4. For a centrally managed installation, establish Secure Internal Communication (SIC) using the activation key entered in the First Time Configuration Wizard.
5. Configure the topology.
6. Install the security policy.

Advanced Configuration

Advanced configuration on Gaia

Advanced configuration on Gaia can be done using the WebUI or the CLI.

Advanced configuration on SecurePlatform

Advanced configuration on SecurePlatform can be done using the `sysconfig` menu from the CLI.

Note - The `sysconfig` menu is only available after running the **First Time Configuration Wizard** in the WebUI.

Connecting to the CLI

After you complete the First Time Configuration Wizard, you can connect to the CLI (command line interface) of a Check Point 4000 Appliances using:

- The provided serial console cable (DTE to DTE)
- Terminal emulation software such as HyperTerminal and PuTTY (from Windows), or Minicom (from Unix/Linux systems).
  - Connection parameters for the appliance are: 9600bps, no parity, 1 stop bit (8N1).
  - Set the **Flow Control** to **None**.
- An SSH connection to the management interface (if SSHD is configured).

Chapter 4

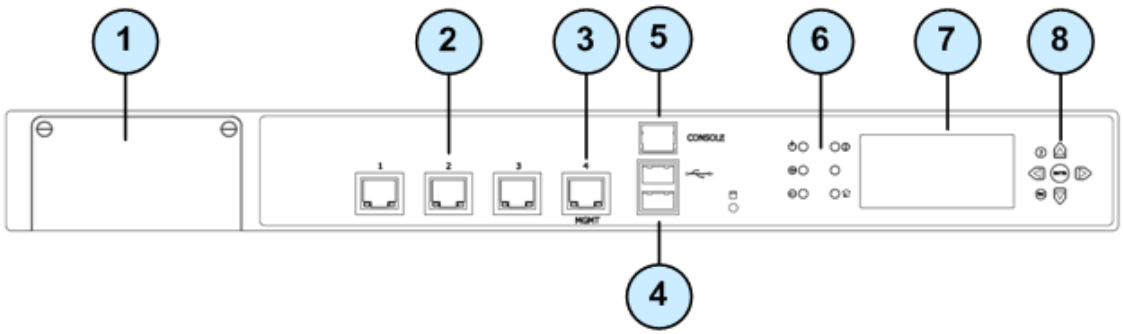
Check Point 4000 Appliances Hardware

In This Chapter

Front Panel Components

This section describes the features and components located on the appliance front panel.

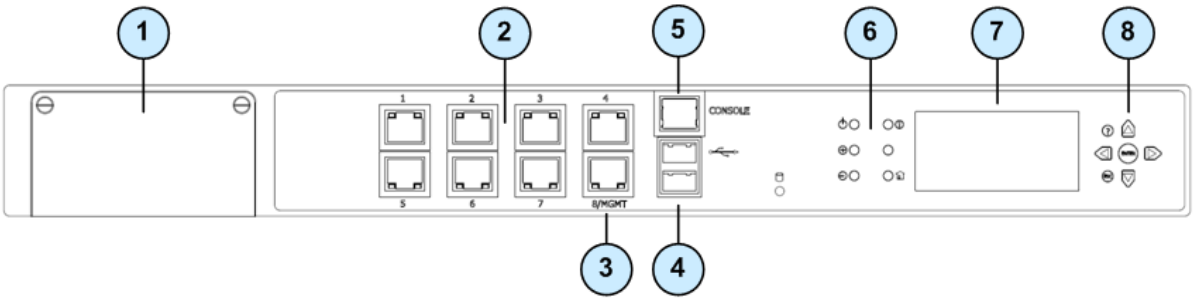
Check Point 4200 Front Panel



Item	Description
1	Expansion line card slot
2	Built in Ethernet ports (ETH1 - ETH3)

Item	Description
3	Management configuration port - Ethernet connection to a remote management workstation
4	USB ports
5	Console port - A serial connection to the appliance using a terminal emulation program such as HyperTerminal or PuTTY
6	Power indicator LED
7	LCD display screen
8	Keypad

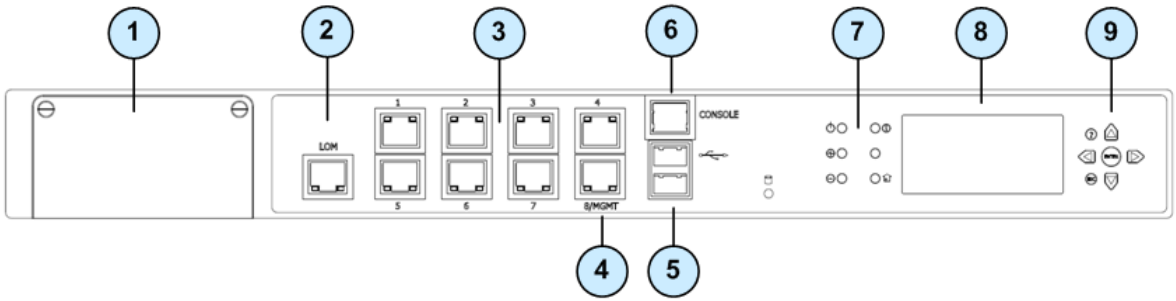
Check Point 4600 Front Panel



Item	Description
1	Expansion line card slot
2	Built in Ethernet ports (ETH1 - ETH7)
3	Management configuration port - Ethernet connection to a remote management workstation
4	USB ports
5	Console port - A serial connection to the appliance using a terminal emulation program such as HyperTerminal or PuTTY
6	Power indicator LED
7	LCD display screen

Item	Description
8	Keypad

Check Point 4800 Front Panel



Item	Description
1	Expansion line card slot
2	LOM Port
3	Built in Ethernet ports (ETH1 - ETH7)
4	Management configuration port - Ethernet connection to a remote management workstation
5	USB ports
6	Console port - A serial connection to the appliance using a terminal emulation program such as HyperTerminal or PuTTY
7	Power indicator LED
8	LCD display screen
9	Keypad

Lights Out Management

The Check Point Lights Out Management (LOM) is an optional card that you can use with Check Point appliances. You can remotely control Check Point appliances using a dedicated management channel. Lights Out Management can also work when the appliance is turned off or not responding.

For more about using Lights Out Management, see the *4800 and 12000 Appliances Lights Out Management Administration Guide* (http://supportcontent.checkpoint.com/solutions?id=68681).

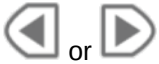
Using the LCD Panel

The appliance has an LCD panel that you can use to do basic management operations. You can enable DHCP. You can configure the management IP address, netmask, and default gateway of the appliance. You can reboot the appliance.

Menu Options

Menu	Sub-menu	Purpose
Network		
	DHCP	Enable or disable DHCP for the management interface.
	Set Mgmt IP	Set the management interface IP address.
	Set Netmask	Set the management interface network mask.
	Set Default GW	Set the management interface default gateway.
System		
	Reboot	Reboot the appliance.

LCD Panel Keys

To	Press
Enter the main menu	
Navigate the menu	
Change a number	
Select a menu option	
Go back to previous menu	

When Entering an IP Address

To	Press
Enter the grub menu	 or 
Move to the next digit	
Move back to the previous digit	
Approve the change	 when the cursor is located on the last digit
Cancel the IP change	 when the cursor is located on the first digit
Change current digit	 or 

Configuring Management DHCP

You can use the LCD panel to enable or disable DHCP on the management interface.

To configure management DHCP using the LCD panel:

1. Press **Enter**  .
   The panel shows `Select > Network`.
2. Press **Enter**  .
   The panel shows `Network > DHCP`.
3. Press **Enter**  .
   The panel shows that DHCP is enabled or disabled.
4. Press **Up**  .
   - If DHCP was disabled - DHCP is enabled on the management interface.
   - If DHCP was enabled - DHCP is disabled on the management interface.

Configuring Management IP Addresses

You can use the LCD panel to configure these management interface IP addresses for the appliance:

- Management IP address
- Subnet netmask
- Default gateway

To configure the management IP address using the LCD panel:

1. Press **Enter**  .
   The panel shows `Select > Network`.
2. Press **Enter**  .
   The panel shows `Network > DHCP`.
3. Press **Down**  .
   The panel shows `Network > Set Mgmt IP`.
4. Press **Enter**  .
   The panel shows the management interface IP address.
5. Configure the management interface IP address.
   a) Press **Up** or **Down**,  or  , to change the digit.
   b) Press **Right** or **Enter**,  or  , to move to the next digit.
   c) When the panel shows the correct IP address, move the cursor to the last digit and press **Enter**  .
   The panel shows `Network > Set Mgmt IP`.
6. Do steps 3 - 5 again for the subnet netmask and the default gateway IP address.
7. Press **Esc**  until the panel shows the appliance logo.

Expansion Line Cards

Check Point 4000 Appliances contain one optional expansion slot that accommodates cold-swappable network line cards. There are different types of expansion line cards which contain two, four, or eight ports. These types of expansion line cards are currently available:

Model	Description
CPAP-2-10F	2 Port 10GBase-F SFP+ (without transceivers)
CPAP-4-1C	4 Port 10/100/1000Base-T RJ-45
CPAP-4-1F	4 Port 1000Base-F SFP (without transceivers)
CPAP-8-1C	8 Port 10/100/1000Base-T RJ-45

Hard Disk Drives

Check Point 4000 Appliances contain one hard disk drive that is not hot-swappable. You must power off the appliance before removing or installing a hard disk drive.

Rear Panel Components

This section describes components located on the rear panel of the appliance.

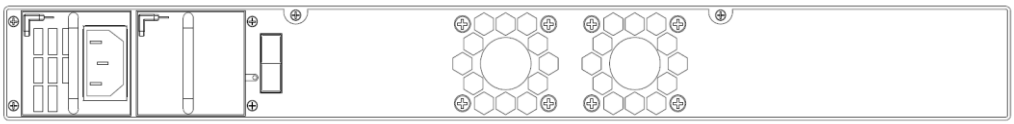
Main Power Switch

The main power switch controls power to the entire unit.

Redundant Power Supply Units (Check Point 4800)

The Check Point 4800 has an optional redundant power supply unit. Located at the left rear of the appliance, two hot-swappable power supply units give built-in power redundancy. Each power supply connects to an electrical outlet.

For appliances that are provisioned with one power supply unit, use the placeholder unit in the other power supply slot. This diagram shows the 4800 model with the placeholder unit:



Note - If both power supply slots are not populated, a continuous alarm sounds.

If a power supply fails or is not connected to the outlet, an alarm sounds continuously.

Replacing and Upgrading Components

The Check Point 4000 Appliances has parts that you can easily replace to minimize downtime. There are also upgrade components that you can install on the appliance. These are the parts and components that can be used with the appliance:

- Sliding rails
- Line cards
- Power supplies (4800 only)
- System memory (4800 only)
- LOM card (4800 only)

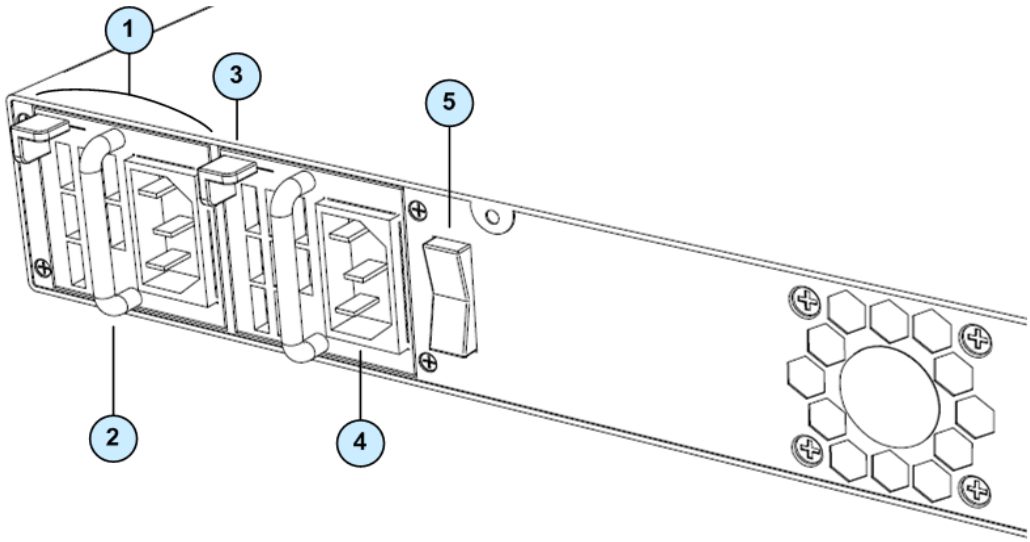
For more information about installing these parts and components, see the appliance home page (http://supportcontent.checkpoint.com/solutions?id=68681).

Unless directed to do so by Check Point technical support, you are prohibited by warranty and support agreements from replacing any parts.

Power Supply (Check Point 4800)

The Check Point 4800 appliance has an optional redundant power supply. This section explains how to remove and install a power supply or placeholder unit.

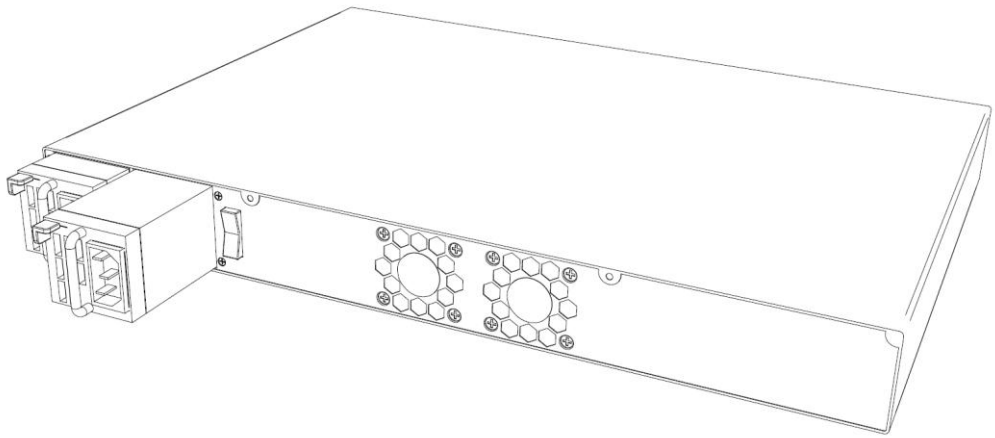
Note - If both power supply slots are not populated, a continuous alarm sounds.



Item	Description
1	Power supply unit
2	Extraction handle
3	Release lever
4	Power cord socket
5	Power switch

Removing the Power Supply

This section describes how to remove a power supply or placeholder unit from a Check Point 4800 appliance.



To remove a power supply unit:

1. If the alarm sounds, press the red alarm button to the right of the power supply.
   The alarm stops.
2. Remove the power cord from the power supply unit.
3. Engage and hold the release lever on the power supply or placeholder unit.
4. Pull the extraction handle to remove the power supply or placeholder unit.

Note - Remove the power supply unit with the extraction handle to prevent any possible damage.

Installing the Power Supply

This section describes how to install a power supply or placeholder unit into a Check Point 4800 appliance.

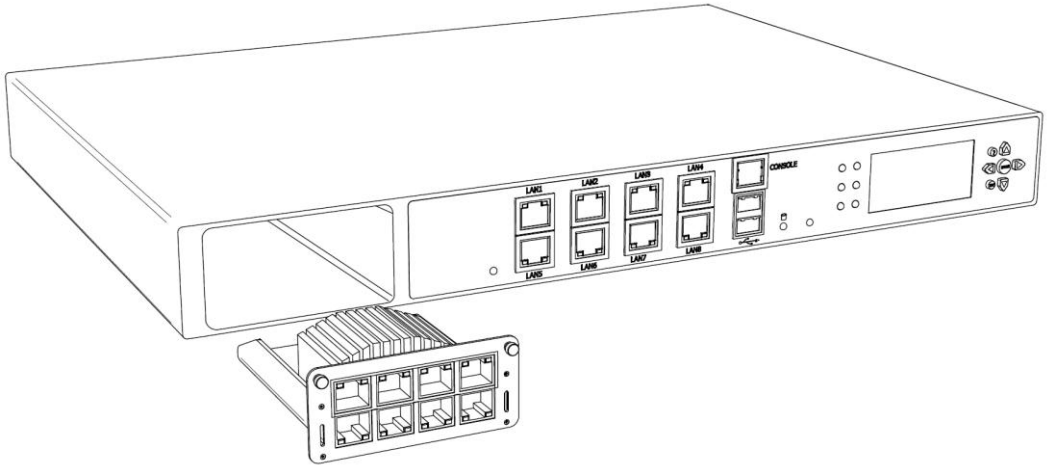
To install a replacement power supply:

1. Insert the power supply or placeholder unit into the power supply slot.
2. Push the power supply or placeholder unit until the release lever clicks.
3. Insert the power cord into the power supply socket. Make sure that the green LED is illuminated.

Expansion Line Card

This section presents the procedures for removing and installing an expansion line card unit. There are two types of expansion cards that can be installed: Ethernet or Fiber Optic ports. The built-in Ethernet ports (LAN1 - LAN8) are not customer replaceable.

Important - Make certain that you are electromagnetically grounded when performing the following procedures. Static electricity can damage the appliance.



Installing Expansion Line Cards

To install an expansion line card:

1. Turn off the appliance.
2. Remove the power cords from the power supply units.
3. Loosen the retaining screws on the metal cover on the front of the appliance.
4. Holding the screws, remove the metal cover.
5. Insert the expansion line card into the expansion slot.
6. Push until the card clicks into position.

7. Tighten the retaining screws on the expansion line card.

Removing Expansion Line Cards

To remove an expansion line card:

1. Turn off the appliance.
2. Remove the power cords from the power supply units.
3. Loosen the retaining screws on the expansion line card.
4. Holding the screws, pull the expansion line card out of the expansion slot.
5. Put the metal cover on the expansion slot.
6. Tighten the screws on the metal cover.

Chapter 5

Restoring Factory Defaults

If necessary, restore the appliance to its factory default settings.

Important - If you restore factory defaults, all information on the appliance is deleted.

In This Chapter

Restoring Using the WebUI

To restore the appliance to its default factory configuration using the WebUI:

1. In a Web browser, navigate to
   `https://<appliance_ip_address>:4434`
2. Log in to the WebUI of the appliance using your administrator username and password.
3. In the WebUI, click **Appliance** > **Image Management**.
   The Image Management window opens.
4. Select the image version to revert to.
5. Click **Revert**.

Restoring Using the Console Boot Menu

To restore the appliance to its default factory configuration using the console boot menu:

1. Connect the supplied DB9 serial cable to the console port on the front of the appliance.
2. Connect to the appliance using a terminal emulation program such as Microsoft HyperTerminal or PuTTY.

3. Configure the terminal emulation program:
   - In the HyperTerminal **Connect To** window, select a port from the **Connect using** list.
   - In PuTTY select the **Serial** connection type.
4. Define the serial port settings: 9600 BPS, 8 bits, no parity, 1 stop bit.
5. From the **Flow control** list, select **None**.
6. Connect to the appliance.
7. Turn on the appliance.
8. The appliance initializes and status messages are shown in the terminal emulation program.

```
IDE Channel 2 . Master Disk  : LBA,ATA 100,  164GB

PCI device listing ...
Bus No. Device No. Func No. Vendor/Device Class Device Class                IRQ
---------------------------------------------------------------------------------
    0       2          0     8086   2772   0300  Display Cntrlr              10
    0      29          0     8086   27C8   0C03  USB 1.0/1.1 UHCI Cntrlr     15
    0      29          1     8086   27C9   0C03  USB 1.0/1.1 UHCI Cntrlr     15
    0      29          2     8086   27CA   0C03  USB 1.0/1.1 UHCI Cntrlr      5
    0      29          3     8086   27CB   0C03  USB 1.0/1.1 UHCI Cntrlr     10
    0      31          1     8086   27DF   0101  IDE CntrlrCI Cntrlr         14
    0      31          2     8086   27C0   0101  IDE Cntrlr                  15
    0      31          3     8086   27DA   0C05  SMBus Cntrlr                15
    1       0          0     8086   109A   0200  Network Cntrlr              10
    2       0          0     8086   109A   0200  Network Cntrlr              11
    3       0          0     8086   109A   0200  Network Cntrlr               5
    4       0          0     8086   109A   0200  Network Cntrlr              15
    5       0          0     8086   109A   0200  Network Cntrlr              10
    6       0          0     8086   109A   0200  Network Cntrlr              11
    7      12          0     8086   1076   0200  Network Cntrlr              10
    7      13          0     8086   1076   0200  Network Cntrlr              11
                                                 ACPI Controller              9

Verifying DMI Pool Data ...........
Press any key to see the boot menu [Booting in 4 seconds] _
```

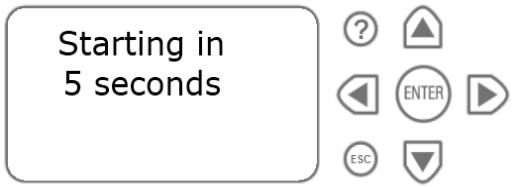
9. When this message is shown, you have approximately four seconds to hit any key to activate the **Boot** menu.
10. The **Boot** menu opens. Scroll to the relevant **Reset to factory defaults** image and press **Enter**.

Restoring Using the LCD Panel

To restore the appliance to its default factory configuration using the LCD Panel keys:

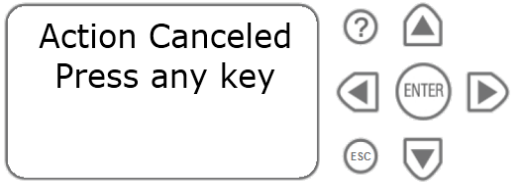
1. Reboot or power on the appliance.

2. When the countdown begins, press any of the arrow keys.



   The **Boot** menu appears.
3. Using the arrow buttons, scroll to the relevant default factory image.
4. Press  .
5. Confirm the reset by pressing  .

   Pressing any other button causes the Action Canceled message to display:



   At this point, pressing any key returns you to the boot menu.
6. Once you have confirmed the reset, wait for the appliance to restore the factory image. While the appliance is restored to the default image, this message is continuously displayed: `Reverting image don't turn off`.

   After the appliance is restored to its default factory configuration, the appliance reboots and the initializing message appears.

Chapter 6

Registration and Support

In This Chapter

Registration

The appliance requires a product-specific Check Point license. Get a license and register at the Check Point Appliance Registration site (http://register.checkpoint.com/cpapp).

Support

For additional technical information about Check Point products, consult the Check Point Support Center (http://supportcenter.checkpoint.com).

Where To From Here?

You have the basics to get started. The next step is to get more advanced knowledge of your Check Point software.

Check Point documentation is available on the Check Point Support Center (http://supportcenter.checkpoint.com).

Be sure to also use the Online Help when you are working with the Check Point SmartConsole clients.

Appendix A

Compliance Information

This appendix contains declaration of conformity, compliance, and related regulatory information.

In This Appendix

Declaration of Conformity

Manufacturer's Name: Check Point Software Technologies Ltd.

Manufacturer's Address: 5 Ha'Solelim Street, Tel Aviv 67897, Israel

Declare that under our sole responsibility the products

Model Number: T-120, T-160, and T-180

Product Options: All

Date First Applied: July, 2011

Conforms to the following product specifications:

EMC	FCC, 47 CFR, Part 15, Class A	Information Technology Equipment - Radio Disturbance Characteristics
	VCCI V-3, Class A	Information Technology Equipment - Radio Disturbance Characteristics
	AS/NZS CISPR22, Class A	Information Technology Equipment - Radio Disturbance Characteristics
	ICES-003, Class A	Information Technology Equipment - Radio Disturbance Characteristics

	CISPR22	Information Technology Equipment - Radio Disturbance Characteristics
	EN55022, Class A	Information Technology Equipment - Radio Disturbance Characteristics
	EN 61000-3-2	Information Technology Equipment - Harmonics Characteristics
	EN61000-3-3	Information Technology Equipment - Flicker Characteristics
	EN 55024	Information Technology Equipment - Immunity Characteristics
	EN61000-4-2	Information Technology Equipment - Electrostatic Discharge Immunity
	EN61000-4-3	Information Technology Equipment - Radiated RF Immunity
	EN61000-4-4	Information Technology Equipment - Fast Transient Immunity
	EN61000-4-5	Information Technology Equipment - Surge Immunity
	EN61000-4-6	Information Technology Equipment - Conducted RF Immunity
	EN61000-4-11	Information Technology Equipment - Voltage Dips and Short Interruptions Immunity
Safety	CAN/CSA, C22.2 No. 60950-1-07	Safety of Information Technology Equipment
	UL 60950-1:2007 second edition	Safety of Information Technology Equipment
	EN 60950-1:2006/A11:2009	Safety of Information Technology Equipment

The product herewith complies with the requirements of the EU Directive 2006/95/EC and the EMC Directive 2004/108/EC

Date and Place of issue: July, 2011, Tel Aviv, Israel

FCC Notice (US)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.