

Blue Coat®

Director

Upgrade Installation Kit



Blue Coat® Systems

Director

Upgrade Installation Kit

Product Documentation

Complete documentation for Director consists of four manuals:

- *Blue Coat Director Configuration and Management Guide*
- *Blue Coat Director Installation Guide*
- *Blue Coat Director Command Line Interface Reference*

Additionally, refer to *Blue Coat ProxySG Configuration and Management Guide* for information about Blue Coat ProxySG Appliances.

These manuals are available in Adobe® Acrobat® PDF format on the Blue Coat Web site at: www.bluecoat.com.

Contact Information

Blue Coat Systems Inc.
420 North Mary Ave
Sunnyvale, CA 94085-4121

<http://www.bluecoat.com/support/index.html>

bc.info@bluecoat.com

support@bluecoat.com

<http://www.bluecoat.com>

For concerns or feedback about the documentation: documentation@bluecoat.com

Copyright© 1999-2006 Blue Coat Systems, Inc. All rights reserved worldwide. No part of this document may be reproduced by any means nor modified, decompiled, disassembled, published or distributed, in whole or in part, or translated to any electronic medium or other means without the written consent of Blue Coat Systems, Inc. All right, title and interest in and to the Software and documentation are and shall remain the exclusive property of Blue Coat Systems, Inc. and its licensors. ProxySG™, ProxyAV™, CacheOS™, SGOS™, Spyware Interceptor™, Scope™ are trademarks of Blue Coat Systems, Inc. and CacheFlow®, Blue Coat®, Accelerating The Internet®, WinProxy®, AccessNow®, Ositis®, Powering Internet Management®, and The Ultimate Internet Sharing Solution® are registered trademarks of Blue Coat Systems, Inc. All other trademarks contained in this document and in the Software are the property of their respective owners.

BLUE COAT SYSTEMS, INC. DISCLAIMS ALL WARRANTIES, CONDITIONS OR OTHER TERMS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, ON SOFTWARE AND DOCUMENTATION FURNISHED HEREUNDER INCLUDING WITHOUT LIMITATION THE WARRANTIES OF DESIGN, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL BLUE COAT SYSTEMS, INC., ITS SUPPLIERS OR ITS LICENSORS BE LIABLE FOR ANY DAMAGES, WHETHER ARISING IN TORT, CONTRACT OR ANY OTHER LEGAL THEORY EVEN IF BLUE COAT SYSTEMS, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Document Number: 231-02748

Document Revision: 00B 02/2006

Director Upgrade Installation Instructions

This document explains the basic procedure for installing hard-disk, memory, and CPU upgrades. Keep the following in mind:

- Power down Director before you open the cover.
- Leave the power cord plugged in to Director and to a power source if you attach the ESD strap to the chassis of Director.
- Do not touch the components on any printed circuit board.

Place all new components and those removed from Director on a grounded antistatic surface or in an antistatic bag.



IMPORTANT

ALWAYS observe proper electrostatic discharge (ESD) conventions. Attach an ESD protective wrist strap to your wrist and to the Director chassis. Ensure that Director is on an ESD-safe work surface or ground the unit appropriately. *Blue Coat Systems does not assume responsibility or liability for damage resulting from ESD.*

Checking the Package

The Director upgrade kit comes with the following items:

- This *Blue Coat Director Upgrade Installation Kit* document
- 36 or 73 GB hard disk drive
- Two-512 memory modules (DIMMs)
- Pentium 3 866MHz CPU with packet of High Conductivity Thermal Compound
- Electrostatic Discharge Protective Wrist Strap

You will also need a medium-sized flathead screwdriver.

1

Archive Your Configuration

To upgrade Director, you must replace the hard disk drive. This means that your configurations will be lost unless you archive and restore them. To archive your existing configuration, you must complete the following steps using Director CLI.



IMPORTANT

The information in the following procedure briefly describes how to archive your existing configuration and upload the configuration onto your network using the Director CLI. You must have the config lock to complete these commands.

For more detailed instructions, refer to “Archiving and Restoring the Entire Director Configuration,” in Chapter 2 of the *Blue Coat Director Configuration and Management Guide*. To find this and other Director documentation, go to: www.bluecoat.com.

1 If you are running SG-ME 3.x on Director, complete the following steps. If you are running 2.x, you must first upgrade to 3.x before you can archive your current configuration. Refer to “Upgrading Director,” in Chapter 2 of the *Blue Coat Director Configuration and Management Guide* for instructions. To find this and other Director documentation, go to: www.bluecoat.com.

2 Create an encryption key by entering the following command:

```
Director (config) # archive generate key default
```

3 Archive the existing Director configuration, which includes Director and its associated ProxySGs, by entering the following Director configuration command:

```
Director (config) # archive config create [archive_name] key default
```

where *archive_name* is optional. If you do not specify a name, Director creates one with a time/date stamp, similar to the following:

```
sgmearchive-director-config-2005.04.27-063506.tgz
```

4 Save (upload) the configuration to a remote URL by entering the following Director configuration command:

```
Director (config) # archive config upload archive_name remote_url
```

where *remote_url* must be in one of the following formats:

```
http:// hostname[:port]/path/
```

```
https:// hostname[:port]/path/
```

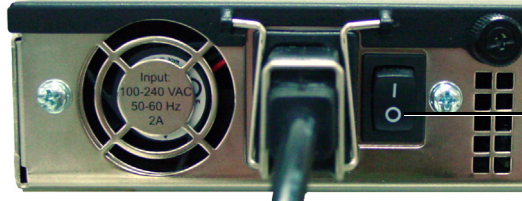
```
ftp:// hostname/path/
```

```
scp:// hostname/path/
```

5 Complete the remaining procedures to replace Director’s CPU, memory, and hard disk drive before using the Director CLI to download and restore the configuration you just archived onto the new hard drive.

2 Prepare Director

- 1 Confirm that you have archived your existing Director configuration (check the remote URL where you uploaded the archived configuration file).
- 2 Turn the power switch to the OFF (O) position to power off Director.



Turn power switch to OFF (O) position

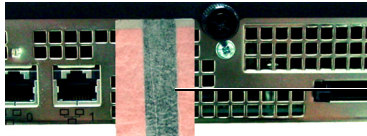
- 3 Remove all network connections.
- 4 If necessary, remove the rack-mounting brackets from both sides of Director (you do not need to remove the side-mounting rails).



Side-mounting rails can

Remove rack-mounting

- 5 If necessary for grounding purposes, plug the power cord into Director and to a power source, but do not power on Director (Director must remain powered off).
- 6 Wrap the ESD strap around your wrist and attach the copper tape to an electrical ground or to an unpainted metal surface on the back of the Director.



Attach the ESD strap to your wrist and to the back of the Director



IMPORTANT

If you attach the ESD strap to the back of Director, make sure that the power cord is connected both to Director and to a power source.

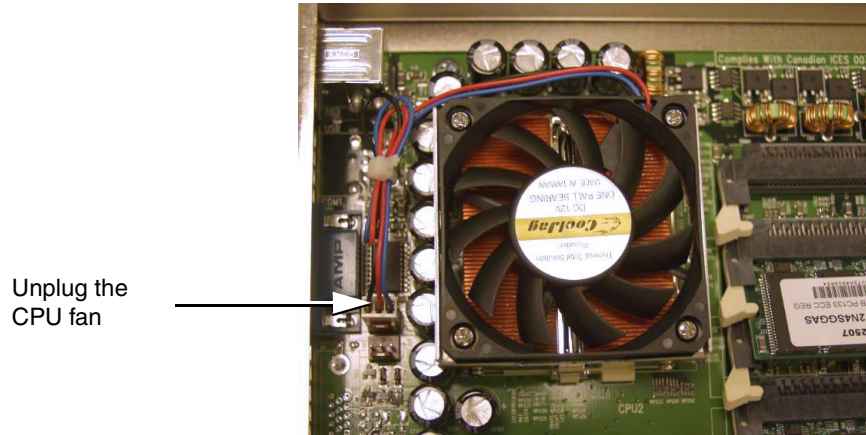
- 7 From the back of appliance, loosen the two cover screws and use them to pull the cover toward you slightly and lift it up and off.



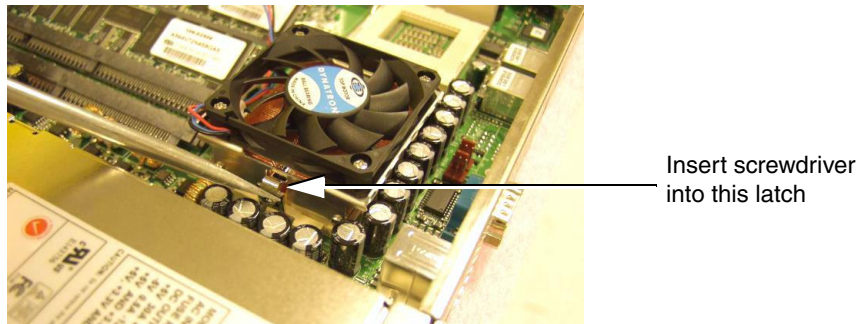
Loosen these two screws and use them to remove the

3 Upgrade the CPU

- 1 Unplug and remove the CPU fan connector.



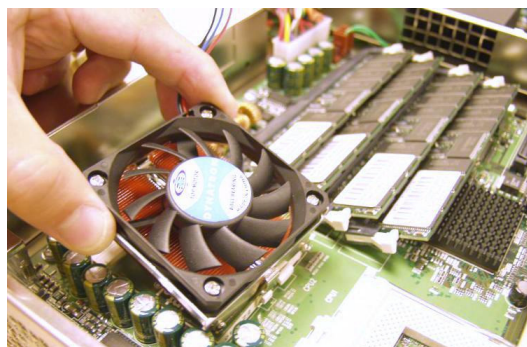
- 2 Carefully insert a medium-sized flathead screwdriver into the left side of the latch that locks in the processor fan, gently press down on the latch, and lift the latch away from the fan socket holder.



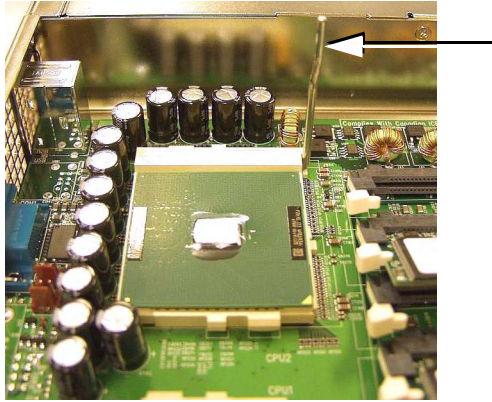
IMPORTANT

Press the screwdriver down carefully to avoid damaging the motherboard.

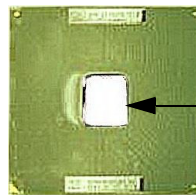
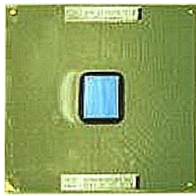
- 3 Lift up the processor fan, remove it, and put it in a safe place.



- 4** Lift the CPU socket latch and remove the CPU.



- 5** Open the packet of High Conductivity Thermal Compound, and apply a *thin even* coat to the surface of the new CPU chip from the upgrade kit.



Spread a thin, even coat of the Thermal Compound on the face of the chip

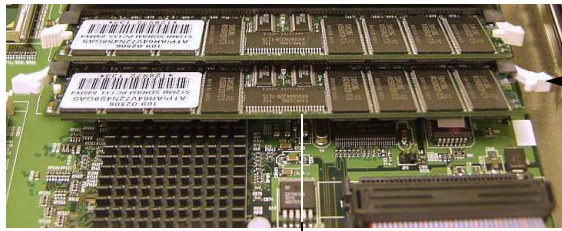
- 6** Carefully insert the new CPU and lower the socket latch back in place.
7 Reinstall the CPU processor fan, and reattach the fan connector.

4 Upgrade the Memory

Remember the following when upgrading memory:

- You must remove all existing memory and replace it with the new memory from the kit.
- Insert the memory modules into slots 1 and 2 (DIMM 1 and DIMM 2). Leave slots 3 and 4 empty.

1 For each memory module, open the latch on each side of the slot, and pull the existing module out.



Open this latch on each side of the

...and pull the memory module out to remove

2 Insert and press the new memory module into place so that the fingers on the long edge of the module fit into the slot, and then close the latch on each side of the slot.



DIMM 2
DIMM 1

Close this latch on each side of the slot after sliding the

3 Reattach the top cover.

5 Upgrade the Hard Disk Drive

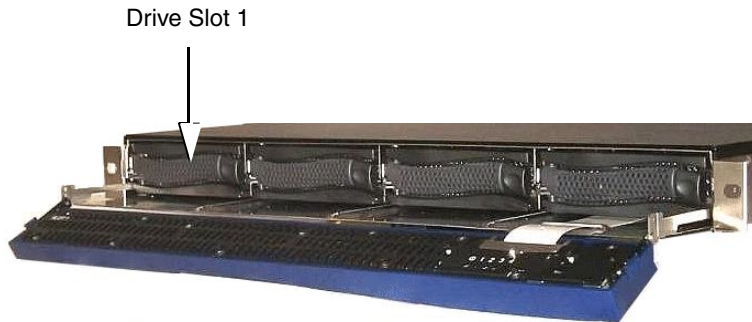
- 1 Press the push tabs on each side of the bezel to release the locked position of the blue front panel of the Director Appliance.



- 2 Swing the front bezel toward you until it tilts down. If the appliance is in an equipment rack, you need to slide the tray out before tilting the bezel (see Step 3).



- 3 If there is other rack-mounted equipment below blocking the front panel from opening, pull the front panel outward to slide the tray out to get access to the drive slots



- 4 To remove a drive, press the button on the right side of the drive to release the lever. Gently rotate the lever away from the button until it stops.



...releases this lever, which you then rotate to the

- 5 Pull the lever towards you to slide the drive out of the slot.
- 6 Insert the new drive: press the button to release the lever, and use the lever to slide the drive into the slot until it clicks into place. Finally, rotate the lever to the right until it snaps into the closed position.
- 7 When you have finished upgrading Director, reinstall the cover, reinstall the rack-mounting brackets and remount, if necessary.
- 8 To restore the Director configuration that you archived previously, complete the steps in the procedure below, *Restore the Archived Director Configuration*.

6 Use a Serial Terminal to Configure Network Settings

You need to do an initial setup of Director before you can log in and restore your archived configuration.



IMPORTANT

The information in the following procedure briefly describes how to do an initial setup on Director using a serial console. For more detailed instructions, or for instructions on doing an initial setup using a PC or the front panel, refer to Chapter 3 in the *Blue Coat Director Installation Guide*. To find this and other Director documentation, go to: www.bluecoat.com.

- 1 Power on the serial terminal.
- 2 Connect the terminal's serial cable to Director's serial console port; start the terminal and verify that it is set using the parameters described below:
 - Baud rate: 9600 bps
 - Data bits: 8
 - Parity: none
 - Stop bits: 1
 - Flow control: none
 - Smooth-scroll: disabled
 - Emulation: VT 100
- 3 Power on Director.
- 4 From the serial console, the Director login prompt displays, asking for the username and password. The default is `admin` with no password.
- 5 Next, enter configuration mode: type `enable` to enter enable mode, then type `config t`.
- 6 Director ships with two 10/100 Mbps network interface cards (NICs). The first one (labeled 0) is `ether-0`. The second is `ether-1`. To configure them, add the IP address and subnet mask for each interface (enter the following commands):

```
Director (config) # interface {ether-0 | ether-1}
Director (config interface ether-0) # ip address ip_address/subnet_mask
```

**IMPORTANT**

You cannot configure two interfaces with IP addresses in the same subnet.

- 7 To set the default gateway, enter the following command:**

```
Director (config) # ip default-gateway ip_address_for_gateway
```

- 8 To add a DNS server to Director, enter the following command:**

```
Director (config) # ip name-server dns_ip_address
```

7

Restore the Archived Director Configuration

After you have completed the upgrade procedures in this document, you can use the Director CLI to restore the configuration that you previously archived and uploaded to a remote URL (you must have the config lock).

**IMPORTANT**

The information in the following procedure briefly describes how to restore your archived configuration through the Director CLI. For more detailed instructions, refer to “Archiving and Restoring the Entire Director Configuration,” in Chapter 2 of the *Blue Coat Director Configuration and Management Guide*. To find this and other Director documentation, go to: www.bluecoat.com.

- 1 Download the archived configuration file to your new Director hard drive by entering the following configuration command:**

```
Director (config) # archive config fetch archive_filename  
path_to_the_archive_filename
```

where:

- archive_filename* is the name of the archived file that you created in “Archive Your Configuration” on page 2.
- path_to_the_archive_filename* is the complete URL to the archive file and not the folder name. The *archive_filename* must be explicitly stated as part of the URL; otherwise, an empty file will be created and you will not be able to restore your present configuration in the next step.

Depending on the URL, you might also need to supply credentials.

- 2 Restore the archived config file by by entering the following configuration command:**

```
Director (config) # archive config restore archive_name
```

**IMPORTANT**

Do not save changes (do not use the `write memory` command). Use the `reload` command to reboot the system.

- 3 Make the archived configuration the active configuration by rebooting the system using the following configuration command:**

```
Director (config) # reload
```