WatchGuard® V10, V60L, V60, V80, V100 Hardware Guide

Vclass 5.0

FCC Certification

This device has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CE Notice

The CE symbol on your WatchGuard Technologies equipment indicates that it is in compliance with the Electromagnetic Compatibility (EMC) directive and the Low Voltage Directive (LVD) of the European Union (EU).

Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le materiel broulleur du Canada.

VCCI Notice Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI)の基準に基づくクラス A 情報技術装置です。この装置を家庭用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。

DECLARATION OF CONFORMITY

WatchGuard Technologies, Inc.
505 Fifth Ave. S., Suite 500
Seattle, WA 98104-3892
USA

WatchGuard Technologies Inc. hereby declares that the product(s) listed below conform to the European Union directives and standards identified in this declaration.

Product (s):

Internet Firewall and VPN (Encryption) Network Device, Models V3064R2, V2CE4H2,V1BE4H2, V0AF2H2, and V3HF2H2.

EU Directive(s):

Low Voltage (73/23/EEC)
Electromagnetic Compatibility (89/336/EEC)

Standard(s):

EN 60950 : 1992 (A1:1993; A2:1993; A3:1995; A4:1997; A11:1997)
EN50022 (1998), Class A
EN50024 (1998)

Signature _____
Full Name Jim Cady
Position President, CEO
Date 26 February 2003

Firebox Limited Hardware Warranty

This Limited Hardware Warranty (the "Warranty") applies to the enclosed WatchGuard hardware product (the "Product"), not including any associated software which is licensed pursuant to a seperate end-user license agreement and warranty. BY USING THE PRODUCT, YOU AGREE TO THE TERMS HEREOF. If you do not agree to these terms, please return this package, along with proof of purchase, to the authorized dealer from which you purchased it for a full refund. WatchGuard Technologies, Inc. ("WatchGuard") and you agree as follows:

1. Limited Warranty. WatchGuard warrants that upon delivery and for one (1) year thereafter (the "Warranty Period"): (a) the Product will be free from material defects in materials and workmanship, and (b) the Product, when properly installed and used for its intended purpose and in its intended operating environment, will perform substantially in accordance with WatchGuard applicable specifications.
This warranty does not apply to any Product that has been: (i) altered, repaired or modified by any party other than WatchGuard; or (ii) damaged or destroyed by accidents, power spikes or similar events or by any intentional, reckless or negligent acts or omissions of any party. You may have additional warranties with respect to the Product from the manufacturers of Product components. However, you agree not to look to WatchGuard for, and hereby release WatchGuard from any liability for, performance of, enforcement of, or damages or other relief on account of, any such warranties or any breach thereof.

2. Remedies. If any Product does not comply with the WatchGuard warranties set forth in Section 1 above, WatchGuard will, at its option, either (a) repair the Product, or (b) replace the Product; provided, that you will be responsible for returning the Product to the place of purchase and for all costs of shipping and handling. Repair or replacement of the Product shall not extend the Warranty Period. Any Product, component, part or other item replaced by WatchGuard becomes the property of WatchGuard .
WatchGuard shall not be responsible for return of or damage to any software, firmware, information or data contained in, stored on, or integrated with any returned Products.

3. Disclaimer and Release. THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD, AND YOUR REMEDIES, SET FORTH IN PARAGRAPHS 1 AND 2 ABOVE ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND YOU HEREBY WAIVE, DISCLAIM AND RELEASE ANY AND ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES OF WATCHGUARD AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES YOU MAY HAVE AGAINST WATCHGUARD, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NONCONFORMANCE OR DEFECT IN THE PRODUCT (INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE, ANY WARRANTY OF NONINFRINGEMENT, ANY WARRANTY OF UNINTERRUPTED OR ERROR-FREE OPERATION, ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN TORT, WHETHER OR NOT ARISING FROM THE NEGLIGENCE (WHETHER ACTIVE, PASSIVE OR IMPUTED) OR FAULT OF WATCHGUARD OR FROM PRODUCT LIABILITY, STRICT LIABILITY OR OTHER THEORY, AND ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY FOR LOSS OR DAMAGE TO, OR CAUSED BY OR CONTRIBUTED TO BY,THE PRODUCT).

4. Limitation of Liability. WATCHGUARD TECHNOLOGIES' LIABILITY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) WITH REGARD TO ANY PRODUCT WILL IN NO EVENT EXCEED THE PURCHASE PRICE PAID BY YOU FOR SUCH PRODUCT. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY. IN NO EVENT WILL WATCHGUARD TECHNOLOGIES BE LIABLE TO

YOU OR ANY THIRD PARTY (WHETHER ARISING IN CONTRACT (INCLUDING WARRANTY), TORT (INCLUDING ACTIVE, PASSIVE OR IMPUTED NEGLIGENCE AND STRICT LIABILITY AND FAULT) OR OTHER THEORY) FOR COST OF COVER OR FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, BUSINESS, OR DATA) ARISING OUT OF OR IN CONNECTION WITH THIS WARRANTY OR THE USE OF OR INABILITY TO USE THE PRODUCT, EVEN IF WATCHGUARD TECHNOLOGIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THIS SHALL BE TRUE EVEN IN THE EVENT OF THE FAILURE OF ANY AGREED REMEDY.

5. Miscellaneous Provisions. This Warranty will be governed by the laws of the state of Washington, U.S.A., without reference to its choice of law rules. The provisions of the 1980 United Nations Convention on Contracts for the International Sales of Goods, as amended, shall not apply. You agree not to directly or indirectly transfer the Product or associated documentation to any country to which such transfer would be prohibited by the U.S. Export laws and regulations. If any provision of this Warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect and the invalid provision shall be modified or partially enforced to the maximum extent permitted by law to effectuate the purpose of this Warranty. This is the entire agreement between WatchGuard and you relating to the Product, and supersedes any prior purchase order, communications, advertising or representations concerning the Product AND BY USING THE PRODUCT YOU AGREE TO THESE TERMS. No change or modification of this Agreement will be valid unless it is in writing, and is signed by WatchGuard.

Notice to Users

Information in this guide is subject to change without notice. Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this guide may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of WatchGuard Technologies, Inc.

Copyright, Trademark, and Patent Information

AppLock®, AppLock®/Web, Designing peace of mind®, Firebox®, Firebox® 1000, Firebox® 2500, Firebox® 4500, Firebox® II, Firebox® II Plus, Firebox® II FastVPN, Firebox® III, Firebox® SOHO, Firebox® SOHO 6, Firebox® SOHO 6tc, Firebox® SOHO|tc, Firebox® V100, Firebox® V80, Firebox® V60, Firebox V60L, Firebox® V10, LiveSecurity®, LockSolid®, RapidStream®, RapidCore®, ServerLock®, WatchGuard®, WatchGuard® Technologies, Inc., DVCP™ technology,, Enforcer/MUVPN™, FireChip™, HackAdmin™, HostWatch™, Make Security Your Strength™, RapidCare™, SchoolMate™, ServiceWatch™, Smart Security. Simply Done.™, Vcontroller™, VPNforce™ are either registered trademarks or trademarks of WatchGuard Technologies, Inc. in the United States and/or other countries.

Microsoft®, Internet Explorer®, Windows® 95, Windows® 98, Windows NT® and Windows® 2000 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Netscape and Netscape Navigator are registered trademarks of Netscape Communications Corporation in the United States and other countries.

Part No: 1194-000

Contents

CHAPTER 1

Hardware Descriptions

This chapter provides a visual tour of the external hardware features of the WatchGuard® Firebox® V10, V60, V80, and V100 security appliances, focusing on the buttons, LEDs, interfaces, ports. Please see the *Firebox Vclass User Guide* for installation instructions.

Package Contents

Each appliance model is packaged with different contents, as described in this section.

WatchGuard Firebox V10 security appliance

- One 12V 1.25A, power supply
- Two green, straight-through, 10/100 BaseT, Ethernet cables
- A CD containing the WatchGuard Vcontroller application software for use with three different operating systems: Windows 2000/XP, Solaris,

and Linux. The CD also provides electronic versions of the complete user documentation set.

WatchGuard Firebox V60, V60L, and V80 security appliance

- One power cord
- One red, crossover 10/100 BaseT Ethernet cable
- Three green, straight-through, 10/100 BaseT, Ethernet cables
- One console, RJ 45-to-RJ 45, serial cable and DB-9 adapter
- One APC-manufactured, appliance-to-UPS device cable
- A CD containing the WatchGuard Vcontroller application software for use with three different operating systems: Windows 2000/XP, Solaris, and Linux. The CD also provides electronic versions of the complete user documentation set.
- Rack-mounting hardware. If you are mounting the appliance in a rack, note that Firebox V60L, V60, and V80 appliances are 1U high.

WatchGuard Firebox V100 security appliance

- One power cord
- One red, crossover, 10/100 BaseT, Ethernet cable
- One green, straight-through, 10/100 BaseT, Ethernet cable
- Two optical, data cables
- One APC-manufactured, appliance-to-UPS device cable
- One console, RJ 45-to-RJ 45, serial cable and DB-9 adapter
- A CD containing the WatchGuard Vcontroller application software for use with three different

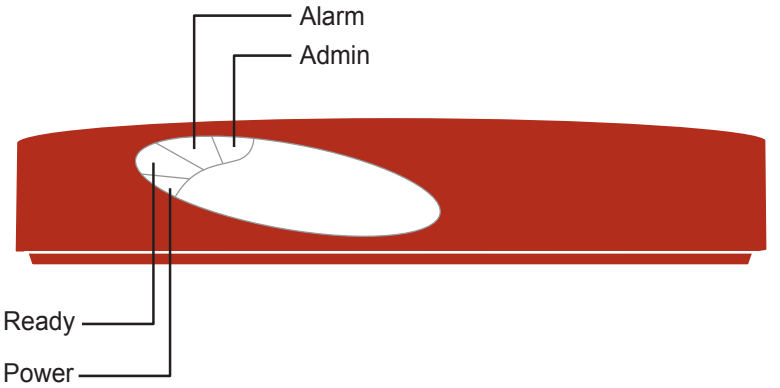
operating systems: Windows 2000/XP, Solaris, and Linux. The CD also provides electronic versions of the complete user documentation set.

- Rack-mounting hardware. If you are mounting the appliance in a rack, note that the Firebox V100 is 1 U high.

Front and Back Views

The Firebox V10 model

The front panel of a Firebox V10 appliance contains the indicators shown in the following illustration.



The LEDs on the front panel are as follows:

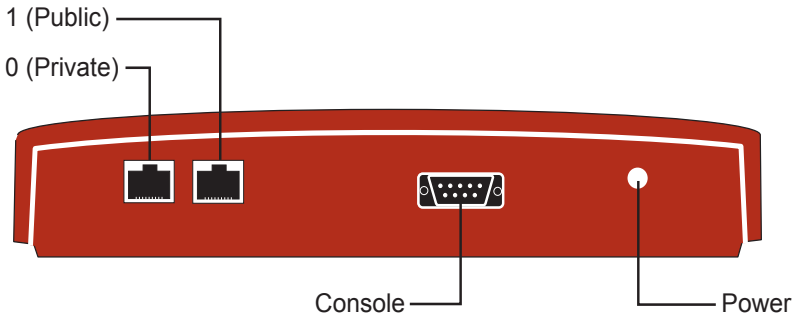
Power
Illuminates when the appliance has been turned on.

Ready
Blinks when the appliance is powering up. Illuminates when the appliance is ready for network traffic.

Alarm
Illuminates when certain alarms are triggered. For more information on alarms, see the *Firebox Vclass User Guide*.

Admin
Illuminates when a system administrator is connected to the appliance by means of the Vcontroller or the WatchGuard CLI.

The back panel of a Firebox V10 appliance contains the interfaces and ports shown in the following illustration.



0 (Private) and 1 (Public)
Two Ethernet interfaces (RJ-45 connectors) labeled *0* and *1*, act as the primary data interfaces. Incorporated into each Ethernet interface are two indicator lights labeled **10** and **100**. These LEDs indicate the speed of traffic being transmitted.

Console
A single RJ-45 interface permits a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to configure and administer this appliance. For more information about this administrative option, see the *CLI Guide*.

Power Port

This interface serves as the connection to a 100VAC-to-240VAC (50/60Hz) source. Use the power cord supplied in the package to connect this appliance to a UPS device or to a power outlet. The power supply can auto-detect 110/220 voltage.

NOTE

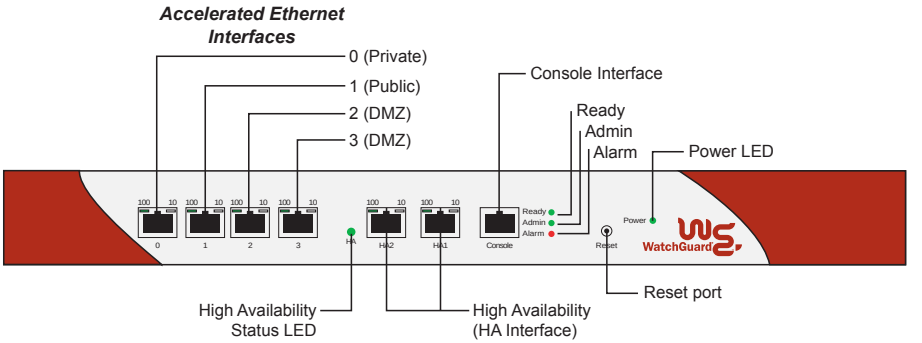
Always connect the power cable to the power port on the back of the V10 before you connect it to the AC outlet.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, automatically restarts itself after electrical power has been restored. You do not have to unplug and then reconnect the appliance to the power source.

The Firebox V60, V60L and V80 models

The front panels of the Firebox V60, V60L, and V80 security appliances contain the features shown in the following illustration.



Accelerated Ethernet Interfaces

Four accelerated, Ethernet interfaces (RJ-45 connectors) labeled 0 (*Private)*, 1 (*Public)*, 2 (*DMZ1*), and 3 (*DMZ2)* act as the primary conduits through which passes all of the network data traffic. Incorporated into each interface are two indicator

lights labeled **10** and **100**. These LEDs indicate the speed of traffic being transmitted.

High Availability Status LED

Indicates the current status of this appliance, if it is one of two connected as a high-availability system. If this is the primary appliance, and the light is on and steady, the system is functional, and this appliance is on-line. If this is the primary appliance and the LED is blinking, a failover has occurred and the secondary appliance is online.

High Availability Interfaces

Two Ethernet interfaces, labelled *HA2* and *HA1* enable you to connect with a cross-over Ethernet cable to other High Availability-ready Firebox Vclass appliances for failover (backup) protection. Incorporated into the two high-availability Ethernet ports are two indicator lights labeled *10* and *100*. These LEDs indicate the speed traffic is transmitted.

Console Interface

A single RJ-45 interface, labeled *Console*, permits a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to configure and administer this appliance. For more information about this administrative option, see the *CLI Guide*.

Ready

Blinks when the appliance is powering up. Illuminates when the appliance is ready for network traffic.

Admin

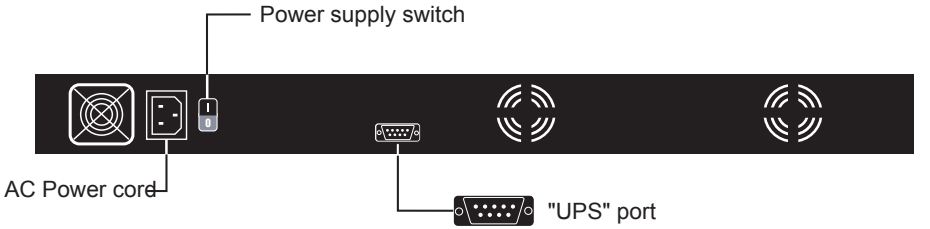
Illuminates when a system administrator is connected to the appliance by means of the Vcontroller or the WatchGuard CLI.

Alarm
Illuminates when certain alarms are triggered. For more information on alarms, see the *Firebox Vclass User Guide*.

Reset port
This opening allows you to insert a straight pin or paperclip and press an internal reset switch that restarts the appliance.

Power LED
Illuminates when the appliance has been turned on.

The back panel of a Firebox V60, V60L, or V80 contains the features shown in the following illustration.



AC Power Cord
Enables you to connect the appliance (using the supplied power cord) to a 100 to 240VAC (50/60Hz) power source.

NOTE

Do not connect Firebox Vclass appliance to a source of power that supplies the wrong voltage. Doing so will damage the appliance and void the warranty.

Power Supply Switch
Allows you to turn the appliance on or off.

UPS Port
Permits connection of the appliance to an *Uninterruptable Power Supply* (UPS). This type of connection enables UPS devices to notify the

appliance if the power goes out, prompting the appliance to shut itself down properly.

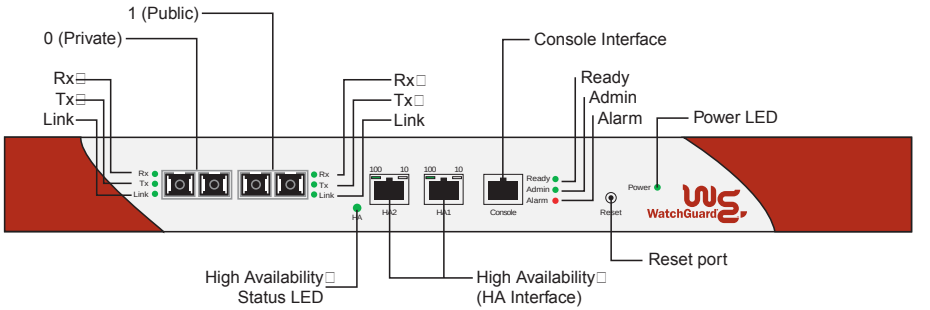
UPS devices from American Power Company (APC) are currently supported by the Firebox Vclass power management firmware. Check the WatchGuard Web site (www.watchguard.com) for updated information on complete UPS support.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, will automatically restart itself after electrical power has been restored. You do not have to press either the Power button on the front or the power supply switch on the back of the appliance.

The Firebox V100 model

The front panel of the Firebox V100 security appliance contains the features shown in the following illustration.



Gigabit interfaces

Two Gigabit Ethernet interfaces, labeled 0 and 1 (corresponding to Private and Public), act as the primary conduits through which network traffic

passes. These interfaces are multi-mode, but they do not support 10/100 communications.

On each side of the two Gigabit interfaces are three LEDs labeled *RX*, *TX*, and *Link*.

The **Link** LED is lit when a connection is active.

The **RX** LED blinks steadily when data packets are being received by the appliance.

The **TX** LED blinks steadily when data packets are being transmitted.

High Availability Status LED

Indicates the current status of this appliance, if it is one of two connected as a high-availability system. If this is the primary appliance, and the light is on and steady, the system is functional, and this appliance is online. If this is the primary appliance and the LED is blinking, a failover has occurred and the secondary appliance is online.

For more information on HA setup, see the *Firebox Vclass User Guide*.

High Availability Interfaces

Two Ethernet interfaces, labelled *HA2* and *HA1* enable you to connect with a cross-over Ethernet cable to other High Availability-ready Firebox Vclass appliances for failover (backup) protection. Incorporated into the two high-availability Ethernet ports are two indicator lights labeled *10* and *100*. These LEDs indicate the speed traffic is transmitted.

Console Interface

A single RJ-45 interface, labelled *Console*, supports a direct workstation-to-appliance connection. You can use the WatchGuard Command Line Interface (CLI) to administer and test this appliance. To learn more about this administrative option, see the *CLI Guide* included on the installer CD.

Ready
Blinks when the appliance is powering up or powering down. It is steadily lit when the appliance is ready for network traffic.

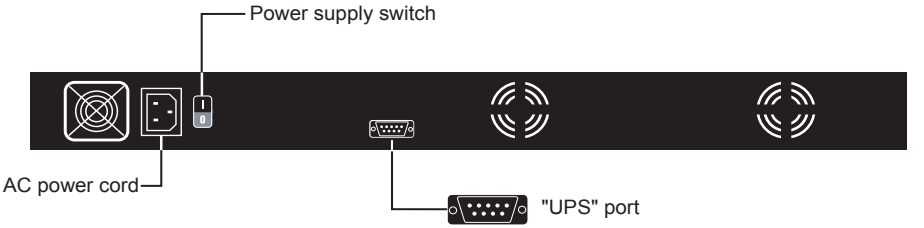
Admin
Illuminates when a user or system administrator is connected to the Firebox Vclass appliance by means of the Vcontroller or the WatchGuard CLI.

Alarm
Indicates when an alarm is activated. For more information on alarms, see the *Firebox Vclass User Guide*.

Reset Port
Allows you to insert a straight pin or paperclip and press an internal Reset switch that restarts the appliance. This is an alternative to unplugging and replugging the power cord.

Power LED
Indicates whether the appliance has been fully turned on and is ready for administration or use.

The back panel of a Firebox V100 includes the features shown in the following illustration.l



NOTE

Do not connect any Firebox Vclass appliance to a source of power that supplies the wrong voltage. Doing so will damage the appliance and void the warranty.

AC Power Cord
Enables you to connect the appliance (using the supplied power cord) to a 100 to 240VAC (50/60Hz) power source. The power supply can auto-detect 110/220 voltage.

Power Supply Switch
Allows you to turn the appliance on or off.

UPS Port
Allows you to use the RS-232 cable provided in the package to connect the appliance to an *Uninterruptable Power Supply* (UPS). This type of connection enables UPS devices to notify the appliance if the power goes out, prompting the appliance to shut itself down properly.

UPS devices from American Power Company (APC) are currently supported by the Firebox Vclass power management firmware. Check the WatchGuard Web site (www.watchguard.com) for updated information on complete UPS support.

NOTE

In the event of a power failure, this security appliance, if left connected to the power source, will automatically restart itself after electrical power has been restored. You do not have to press either the Power button on the front or the power supply switch on the back of the appliance.

Firebox V10, V60, V60L, V80, and V100 Components

Every appliance has three sets of components:

RapidCore™ hardware ensemble
A well-integrated chip set and memory system powers every Firebox Vclass appliance in its

primary duties: protecting your network and efficiently managing all legitimate data streams.

WatchGuard Firebox Vclass Operating System™ (OS)
Every Firebox Vclass security appliance is preinstalled with the latest version of the Firebox Vclass Operating System—which is identified on the packaging by a version number. This operating system includes all the software resources that make the appliance fully functional.

WatchGuard Firebox Vclass administrative client applications
The WatchGuard Vcontroller (or the companion WatchGuard CPM client software) gives you full control of all the customizable operating system parameters, including basic system configurations, security policies, maintenance, and activity logging.

If you already have one or more operational Firebox Vclass appliances in your network, you can shortcut the installation and configuration process on a new factory-default appliance. First, export a complete configuration file from an operational appliance and then import it into the new appliance. After this is done, you can change a few key settings and have a fully functional appliance in location and ready for use. For more information, see *Firebox Vclass User Guide*.

NOTE

This manual refers to the accelerated data interfaces interchangeably as *Private*, *Public*, and (where available) *DMZ* or with the standard interface numbering (0, 1, etc.):
0 = Private, 1 = Public, 2&3 = DMZ
Where other interfaces are included (a second DMZ or High Availability), the corresponding interface numbering will be noted at that time.

Index