



FortiWiFi 60CM QuickStart Guide



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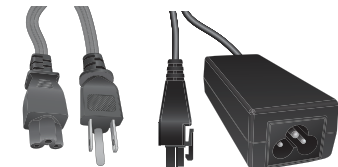
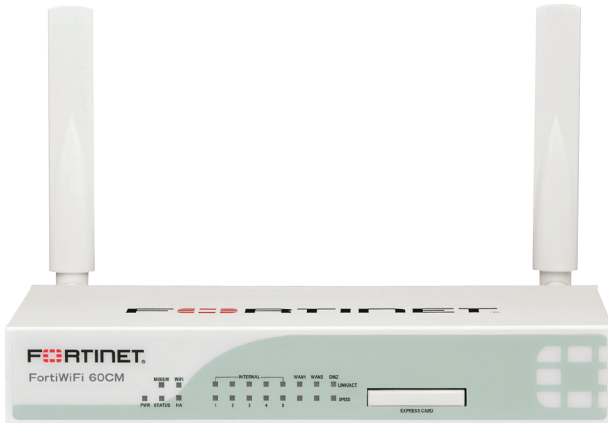
1. Package Contents



Thank you for purchasing the FortiWiFi 60CM. The FortiWiFi 60CM multi-threat security appliance offers you unmatched performance, flexibility, and security for your remote, branch, or small office network.

Your box contains the following:

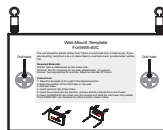
- FortiWiFi 60CM
- QuickStart Guide
- Tool & Documentation CD
- USB A to USB B Cable
- Straight-through Ethernet cable
- Power Cable and Power Adapter
- Wireless Antenna x2 (RP-SMA connectors)
- Wall-mount Template



Power Cable Power Adapter



Ethernet Cable USB Cable



Wall-mount Template

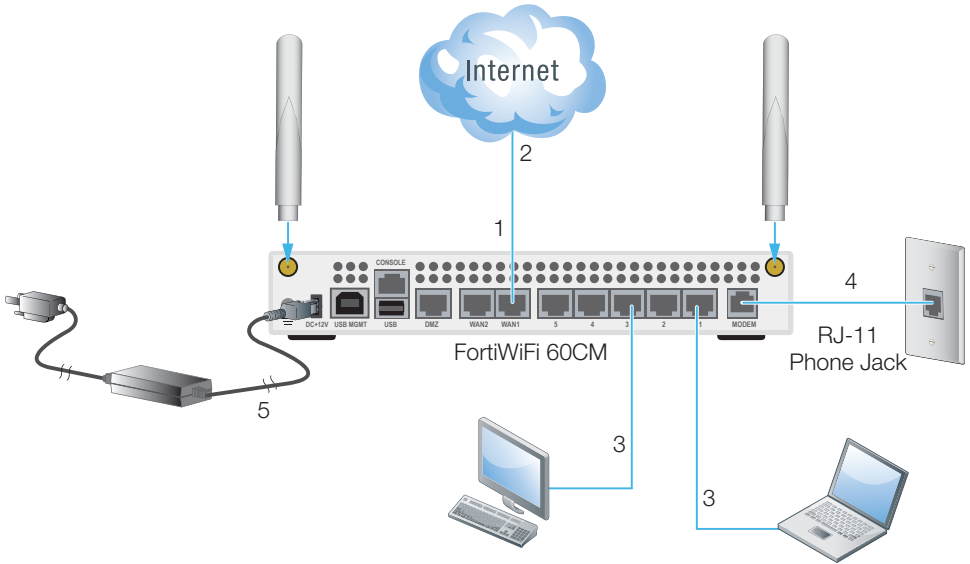


Tools and Documentation CD



QuickStart Guide

2. Connect Your Device



To attach the antennae to the back of the FortiWiFi unit, insert the antenna base firmly into the appropriate antenna mount, and then tighten the fastening collar securely.

To attach your unit to a wall, refer to the wall mount template.

Ensure the FortiWiFi unit is placed on a stable surface. Connect the following to the FortiWiFi unit:

- 1** Connect an Ethernet cable into the port labeled WAN1.
- 2** Connect the other end of your Ethernet cable to your Internet connection.
- 3** Connect an Ethernet cable to each workstation or laptop PC you wish to connect to the FortiWiFi unit.
- 4** Connect an RJ-11 telephone cable to the MODEM port.
- 5** Connect the Power Supply to the FortiWiFi unit and plug the cable into an electrical outlet.

ExpressCard Slot

Optionally, you may also insert a wireless Internet modem into the ExpressCard slot for wireless connectivity to the Internet.

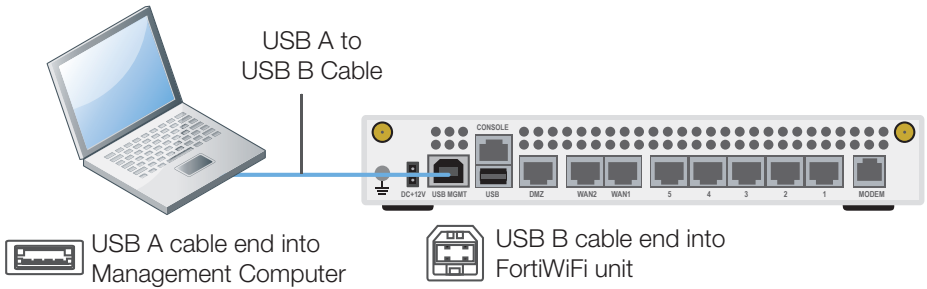
3. FortiExplorer



FortiExplorer is a software tool you can use to configure your FortiWiFi unit. You can use it to configure your admin password, network settings and to register your unit with Fortinet. You can also access the web-based manager and the command line interface (CLI).

Note: When using FortiExplorer for the first time, ensure the FortiWiFi unit is using its default settings. If the unit needs to be reverted to the default settings, press the Reset button for a few seconds. It may take a few moments to reboot.

Caution: Do not connect the USB cable until after FortiExplorer has been installed.



- 1 Insert the software CD included into the Management Computer.
- 2 Select one of the following to install:
 - For Microsoft Windows XP, click FortiExplorer for Microsoft Windows XP.
 - For Microsoft Windows Vista and 7, click FortiExplorer for Microsoft Windows Vista and Windows 7.
- 3 After installation completes, connect the USB A cable end to the management computer and the other end of the cable (USB B) to the USB MGMT port of the unit.
- 4 The New Hardware Wizard opens once the unit is connected to the Management Computer with the USB cable. Do the following:
 - Select the option “No, not at this time” and click Next.
 - Select “Install the hardware automatically” and click Next. The New Hardware Wizard installs the hardware. The FortiExplorer wizard opens.

Note: If FortiExplorer cannot connect to the FortiWiFi unit, check the USB cable connection and the *Device Manager > Other Devices > Fortinet FortiWiFi Device* to ensure the device is properly installed. If it is not installed properly, click Re-install Driver and return to Step 2.

4. Configuration Options



Configuration Using the FortiExplorer Wizard

The FortiExplorer Installation Wizard provides easy-to-follow instructions for configuring the FortiWifi unit on your network.

1 Log in to the FortiExplorer authentication screen. The default credentials are:

Username: admin

Password: none

2 Set your administrator password.

3 Follow the remaining steps in the Wizard to set up your device.

4 Register your device with Fortinet.

5 Click Finish to save your settings to the unit.

6 Do one of the following:

Click Save Summary to save your configuration information as a text file.

Click Exit to close FortiExplorer.

Go to *Tools > Web-based Manager* or *Tools > Command Line Interface*.

For more information about using Web Config and the CLI, see the FortiGate section of Fortinet's documentation website, located at <http://docs.fortinet.com>.

Configuration Using the Web-based Manager

You can also connect to the unit via your browser to configure your FortiWifi unit.

1 Connect the Management Computer to an internal interface port.

2 Type the following address into your browser: 192.168.1.99.

3 Log in to the FortiWifi unit using the default credentials below:

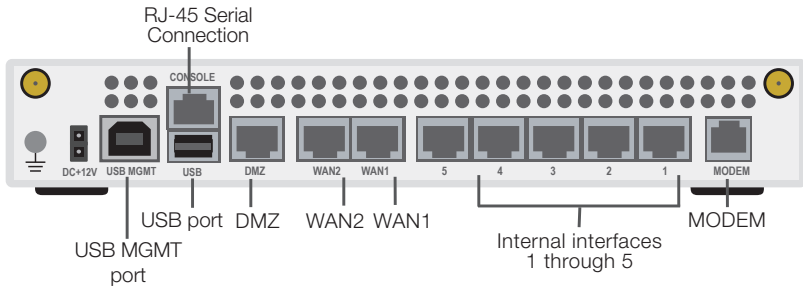
Username: admin

Password: none

4 Configure your device.

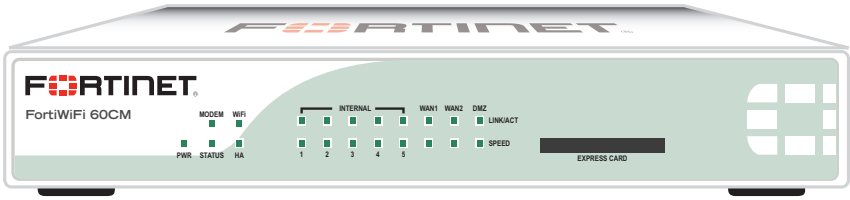
5 Click Submit to save your settings to the unit.

5. Technical Specifications



Interface	Protocol	Description	Default IP Address
Internal (Ports 1 to 5)	Gigabit Ethernet	A 5-port switch connection for the internal network.	192.168.1.99
WAN1	Gigabit Ethernet	Connection to the Internet.	192.168.100.99
WAN2	Gigabit Ethernet	Connection to the Internet.	192.168.101.99
DMZ	Gigabit Ethernet	Optional connection to a DMZ network/device or to other FortiGate units for High Availability (HA).	10.10.10.1
Console	RS-232	Optional serial connection to the Management Computer. Also gives access to the CLI.	
USB	USB 2.0	Optional connection for a USB key, modem or backup operation.	
USB MGMT	USB 2.0	Client port for management/configuration by FortiExplorer.	
ExpressCard Slot		The ExpressCard slot adds wireless connectivity (card not included).	
WiFi	802.11a/b/g/n	Dual-band radio supports 802.11a/b/g/n wireless connectivity. Supports all popular encryption standards (open, WEP64/128, WPA, WPA2-personal, WPA2-enterprise, captive-portal).	Default SSID: <i>Fortinet</i>

6. LED Specifications



LED	State	Description	
Power	Green	The unit is on.	
	Off	The unit is off.	
Status	Flashing Green	The unit is starting up.	
	Green	The unit is running normally.	
HA	Green	The unit is being used in an HA cluster.	
Ports 1 to 5	LINK/ ACT	Green	Port is online (link).
		Flashing Green	Port is sending or receiving data (activity).
	SPEED	Green	Connected at 1000 Mbps (Gigabit Ethernet).
		Amber	Connected at 100 Mbps (Fast Ethernet).
		Off	Connected at 10 Mbps (Ethernet).
WAN1 WAN2 DMZ	LINK/ ACT	Green	Port is online (link).
		Flashing Green	Port is sending or receiving data (activity).
	SPEED	Green	Connected at 1000 Mbps (Gigabit Ethernet).
		Amber	Connected at 100 Mbps (Fast Ethernet).
		Off	Connected at 10 Mbps (Ethernet).
MODEM	Green	Internal modem is in use.	
WiFi	Flashing Green	Wireless port is active.	
	Off	Wireless port is not active.	

7. Technical Documentation



The following Fortinet web pages provide information and resources for your Fortinet product:

1. Customer Service & Support: <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

2. Technical Documentation: <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your Fortigate unit:

- **Hardware Guide:** This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).
- **System Administration Guide:** This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.
- **Fundamentals Guide:** This guide describes NAT versus Transparent mode, packet flow and inspection, firewall components, virtual IPs, security policies, UTM profiles, and troubleshooting traffic.
- **UTM Guide:** The guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as antivirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.
- **Troubleshooting Guide:** This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

3. Knowledge Base: <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

4. Technical Discussion Forums: <http://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

5. Training Services: <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

6. FortiGuard Threat Research and Response: <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Tools and Documentation CD

The tools and documents on this CD are current as of shipping time.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

8. Register Your Product



If you did not register your product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护

Web: <http://www.fortinet.com/register>

Toll free: 1-866-648-4638

Phone: 1-408-486-7899

Fax: 1-408-235-7737

Email: register@fortinet.com

9. Cautions and Warnings



Environmental Specifications

Operating temperature: Refer to the product datasheet

If you install your Fortinet product in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, make sure to install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature.

Storage temperature: Refer to the product datasheet

Humidity: Refer to the product datasheet

Air flow: For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised.

For free-standing installation, make sure that the appliance has at least 1.5 in. (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

FCC Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operation within the 5.15 – 5.25GHz frequency range is restricted to indoor environments.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body. This transmitter must not be co-located or operate in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

IMPORTANT NOTE: Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

This device has been designed to operate with an antenna having a maximum gain of 5dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de dBi 5. Une antenne à gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émission par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

NCC警語

根據NCC低功率電波輻射性電機管理辦法規定：

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率，加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

10. Product License Agreement



Product License Agreement

CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THE OR THIS "AGREEMENT"), USE OF FORTINET, INC. ("FORTINET") PRODUCT(S) AND ANY UPDATES THERETO, INCLUDING HARDWARE APPLIANCE PRODUCTS, SOFTWARE AND FIRMWARE INCLUDED THEREIN BY FORTINET, AND STAND-ALONE SOFTWARE PRODUCTS SOLD BY FORTINET (TOGETHER, THE "PRODUCTS"), CONSTITUTES ACCEPTANCE BY YOU OF THE PROVISIONS IN THIS AGREEMENT. FORTINET SHALL NOT BE BOUND BY ANY ADDITIONAL AND/OR CONFLICTING PROVISIONS IN ANY ORDER, RELEASE, ACCEPTANCE OR OTHER WRITTEN CORRESPONDENCE OR OTHER WRITTEN OR VERBAL COMMUNICATION UNLESS EXPRESSLY AGREED TO IN A WRITING SIGNED BY THE GENERAL COUNSEL OF FORTINET. YOUR INSTALLATION OR USE OF ANY PRODUCT REPRESENTS AGREEMENT TO THE TERMS HEREIN, AS AMENDED OR UPDATED FROM TIME TO TIME IN FORTINET'S DISCRETION BY FORTINET PUBLISHING AN AMENDED OR UPDATED VERSION. IF YOU DO NOT AGREE TO THE PROVISIONS OF THIS AGREEMENT, YOU SHOULD PROMPTLY RETURN THE PRODUCTS TO THE LOCATION WHERE YOU OBTAINED THEM FOR A FULL REFUND. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, DO NOT START THE INSTALLATION PROCESS OR USE THE PRODUCTS.

1. License Grant.

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You may not attempt to, and, if you are a corporation, you are responsible to prevent your employees and contractors from attempting to, (a) modify, translate, reverse engineer, decompile, disassemble, create derivative works based on, sublicense, or distribute the Software; (b) rent or lease any rights in the Software in any form to any third party or make the Software available or accessible to third parties in any other manner; (c) except as provided in section 5, transfer assign or sublicense right to any other person or entity, or (d) remove any proprietary notice, labels, or marks on the Software, Products, and containers.

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5. Transfer.

If you are a Fortinet contracted and authorized reseller or distributor of Products, you may transfer (not rent or lease unless specifically agreed to in writing by Fortinet) the Software to one end user on a permanent basis, provided that: (i) you ensure that your customer and the end user receives a copy of this Agreement, is bound by its terms and conditions, and, by selling the Product or Software, you hereby agree to enforce the terms in this Agreement against such end user, (ii) you at all times comply with all applicable United States export control laws and regulations, and (iii) you agree to refund any fees paid to you by an end user who purchased Product(s) from you but does not agree to the terms contained in this EULA and therefore wishes to return the Product(s) as provided for in this Agreement.

6. Limited Warranty.

Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distributor and paid for such Product. The warranty is only valid for Products which are registered on Fortinet's Support Website: <https://support.fortinet.com>. For the below software warranty to start, registration must take place within three hundred sixty-five (365) days from the date the Product was originally shipped from Fortinet's facilities or the warranty is null and void and will not be honored.

For the hardware warranty, such warranty starts on the earlier of the date of Product registration on Fortinet's Support Website or ninety (90) days from the date that the Product was originally shipped from Fortinet's facilities. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full, i.e. ninety (90) days from the earlier of registration or the automatically started term for hardware and spare parts claims and three hundred sixty-five (365) days from registration within three hundred sixty-five (365) days from shipment for software claims. Fortinet provides no warranty for any beta or evaluation Products, for any spare parts not purchased directly from Fortinet by the end-user, for any accessories, or for any stand-alone software.

Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): a three hundred sixty-five (365) day limited warranty for the Hardware excluding spare parts, and, for spare parts, solely a ninety (90) days limited warranty. Fortinet's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor or installation costs, and any other cost which are not directly associated to the Product. Such repair or replacement will be rendered by Fortinet at an authorized Fortinet service facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet, in its discretion, replace the defective Hardware (or any part thereof) with any reconditioned Product that Fortinet reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Hardware Warranty Period for the repaired or replacement Hardware shall be for the greater of the remaining Hardware Warranty Period or ninety days from the delivery of the repaired or replacement Hardware. If Fortinet determines in its reasonable discretion that a material defect is incapable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by Fortinet upon return to Fortinet of the defective Hardware. All Hardware (or part thereof) that is replaced by Fortinet, or for which the purchase price is refunded, shall become the property of Fortinet upon replacement or refund.

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