



# FortiWiFi 60D QuickStart Guide



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# Package Contents

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Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

- FortiWiFi 60D
- QuickStart Guide
- Tools and Documentation CD
- USB Cable
- Ethernet Cable
- Power Cable
- Power Adapter
- 2 Wireless Antennae



Power Cable



Power Adapter



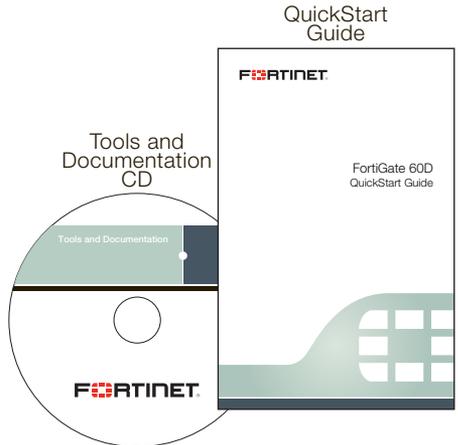
Wireless Antennae



Ethernet Cable

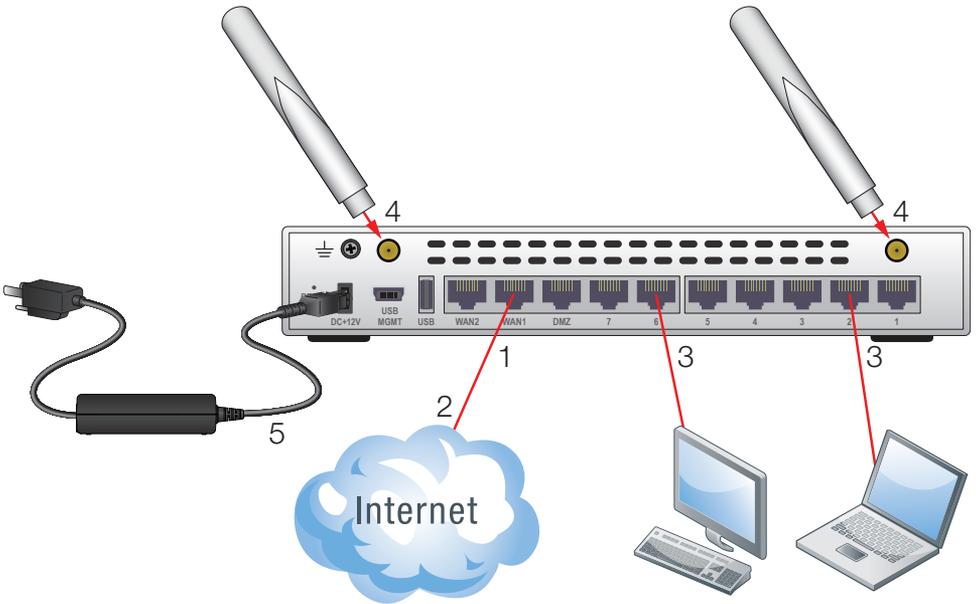


USB Cable



# Connecting Your Device

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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:

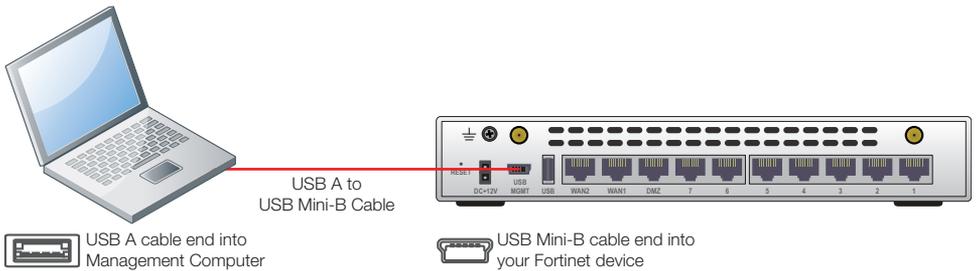
1. Connect an Ethernet cable into the port labeled WAN1.
2. Connect the other end of your Ethernet cable to your Internet connection.
3. Connect an Ethernet cable to each workstation or laptop PC you wish to connect to the FortiWiFi unit.
4. Connect the provided antennae.
5. Connect the power supply to the FortiWiFi unit and plug the cable into an electrical outlet.

# FortiExplorer

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FortiExplorer provides a user-friendly tool that you can use to configure a FortiWiFi unit over a standard USB connection, rather than using a console cable or Ethernet connection.

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



**Note:** When using FortiExplorer for the first time, ensure the FortiWiFi unit is using its factory default settings.

## Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, 7, and 8. It is also available for Mac OS X v10.6 Snow Leopard and higher.

### Microsoft Windows Install

1. Extract the ZIP file (if downloaded) and double-click the .msi, or .exe file and follow the instructions on-screen. If loading from the CD, select the appropriate version for your operating system.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select *Install the hardware automatically* and select *Next*.
4. After a moment, FortiExplorer will launch.

## Mac OS X Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiWiFi unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

## Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiWiFi unit, depending on your level of comfort with various interfaces.

## Updating FortiExplorer and Firmware

FortiExplorer may be automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiWiFi unit. To check for new firmware, select the FortiWiFi unit from the device list and select *Check for New Firmware*. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

# Connecting to the FortiWiFi Unit

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The FortiWiFi unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

In addition to FortiExplorer, the FortiWiFi unit can be configured using the Web-based Manager or the Command Line Interface (CLI).

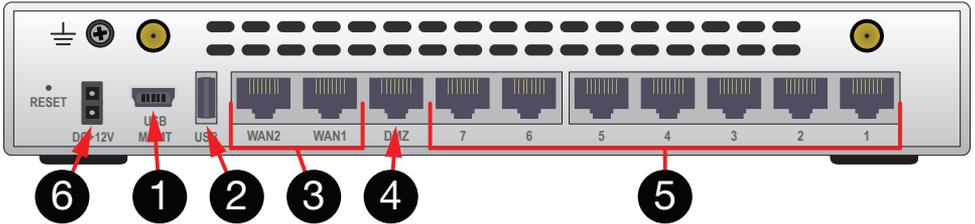
This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

## To Connect to the Web-based Manager or CLI:

1. Connect an internal network port on the FortiWiFi unit to a management computer using the provided Ethernet cable.
2. To access the FortiWiFi unit Web-based Manager, configure the management computer to be on the same subnet as the internal interface of the FortiWiFi unit, then use a web browser:
  - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
  - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
  - c. Start a browser of your choice and browse to <https://192.168.1.99>.
3. To access the FortiWiFi unit CLI, start an SSH client session using a terminal emulator application and enter IP address 192.168.1.99 on port 22.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

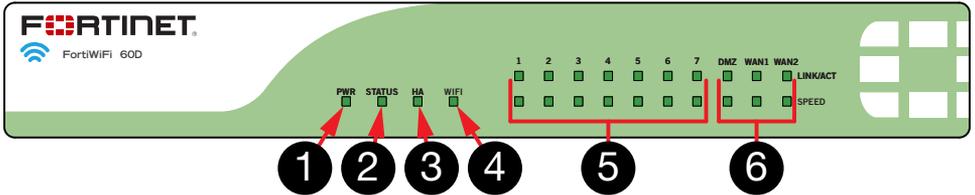
You can now proceed with configuring your FortiWiFi unit.

# Technical Specifications



#	Interface	Type	Description
1	USB MGMT	USB mini-B	USB client port for management.
2	USB	USB-A	USB server port for USB key, modem, or management functions.
3	WAN1 & 2	RJ-45	Gigabit Ethernet Internet connection.
4	DMZ	RJ-45	Optional connection to a DMZ network/device or to other FortiWiFi units for High Availability (HA).
5	Ethernet Ports 1 - 7	RJ-45	Gigabit Ethernet 7-port switch connection for the internal network.
6	Power Connection		12V DC, 2.5A 100-240V AC, 50-60Hz adapter

# LED Specifications



#	LED	State	Description
1	PWR	Green	The unit is on.
		Off	The unit is off.
2	STATUS	Flashing Green	The unit is booting up.
		Green	The unit is operating normally.
3	HA	Green	The unit is operating in an HA cluster.
		Off	HA disabled.
4	WiFi	Green	A wireless connection has been established.
		Off	No wireless connection has been established.
5	Ethernet Ports Link/Activity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
		Off	No link established.
5	Ethernet Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 10/100Mbps.
		Off	Port is not connected.
6	WAN and DMZ Ports Link/Activity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
		Off	No link established.
6	WAN and DMZ Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 10/100Mbps.
		Off	Port is not connected.

# Cautions and Warnings

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Please review the following cautions and warnings.

## **Environmental and mounting specifications**

Operating temperature: 0 - 40°C (32 - 104°F)

Storage temperature: -25 - 70°C (-13 - 158°F)

Humidity: 20 to 90% non-condensing

Operating Altitude: <2250m (7400ft)

**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 (T<sub>ma</sub>) specified by the manufacturer.

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

**Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

**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 overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**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).

## **Federal Communication Commission (FCC) – USA**

This device complies with Part 15 of 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.

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 residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it 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.

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

**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 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Caution:** Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

**Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada**

CAN ICES-3 (B) / NMB-3 (B)

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.

**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 20cm between the radiator & your body.

**Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

**Caution:** The device for the band 5150-5250 MHz is only for indoor usage to reduce 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.

**Avertissement:** 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'émetteur 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.

### **European Conformity (CE) - EU**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

### **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 CAT5 (10/100 Mb/s) 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.

**Note:** For DC installations, a readily accessible disconnect device shall be incorporated in the building installation wiring.

**Caution:** For devices that contain a battery there is a risk of explosion if battery is replaced by an incorrect type. Recycle used batteries according to your local regulations.

**IMPORTANT:** Switzerland: Annex 4.10 of SR814.013 applies to batteries.

# Documentation and Links

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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.

**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:** <https://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](mailto:techdoc@fortinet.com).

# Register Your Product

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If you did not register your Fortinet 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: <https://support.fortinet.com/>**

**Toll free: 1 866 648 4638**

**Phone: 1 408 486 7899**

**Fax: 1 408 235 7737**

**Email: [register@fortinet.com](mailto:register@fortinet.com)**

# Product License Agreement

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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 Agreement and therefore wishes to return the Product(s) as provided for in this Agreement. Further, if you are a non-authorized reseller of Products, you are not authorized to sell Product(s) or Software, but, regardless, by selling Product(s) or Software, you hereby agree you are bound by the restrictions and obligations herein and are bound to: (i) ensure that your customer and the end user receive a copy of this Agreement and are bound in full by all restrictions and obligations herein (ii) enforce the restrictions and obligations in this Agreement against such customer and/or end user, (iii) comply with all applicable United States export control laws and regulations and all other applicable laws, and (iv) refund any fees paid to you by a customer and/or end user who purchased Product(s) from you but does not agree to the restrictions and obligations contained in this Agreement and therefore wishes to return the Product(s) as provided for in this Agreement. Notwithstanding anything to the contrary, distributors, resellers and other Fortinet partners (a) are not agents of Fortinet and (b) are not authorized to bind Fortinet in any way.

## 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>; or on the TalkSwitch support website: <http://global.talkswitch.com>; or such other website as provided by Fortinet. 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, donation 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 may, 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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