WEB APPLICATION FIREWALL

FortiWeb™ 3000D

QuickStart Guide



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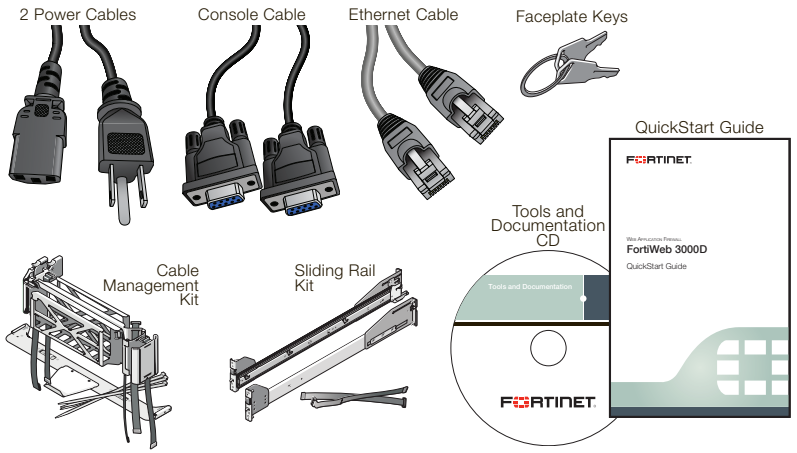
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Package contents

The box should contain:

- FortiWeb 3000D appliance
- FortiWeb 3000D QuickStart Guide
- Tools and Documentation CD
- 2 Power cables
- Ethernet cable
- Console cable
- Faceplate keys
- Sliding rail kit
- Cable management kit



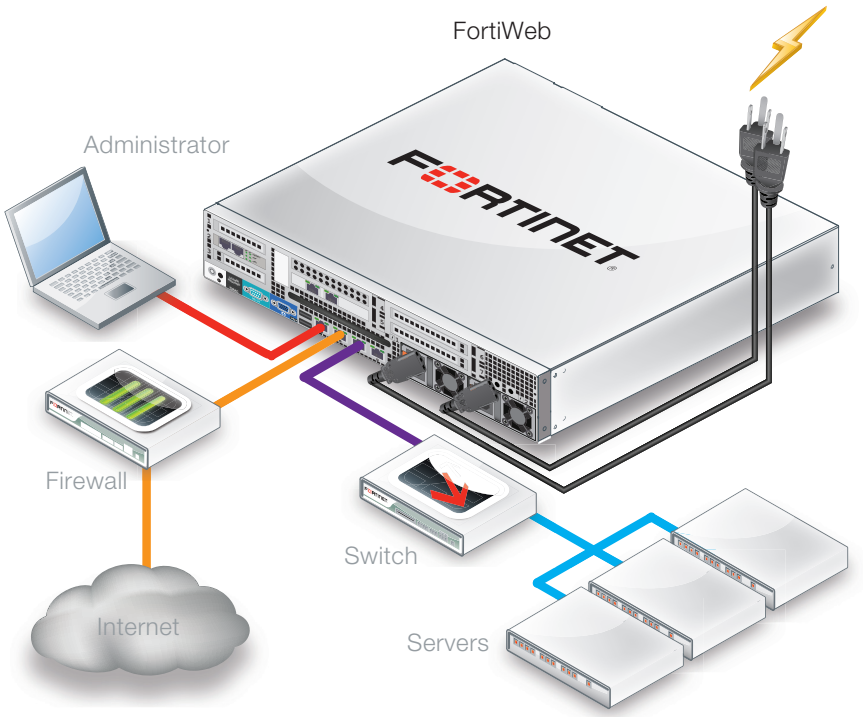


Connecting to FortiWeb

FortiWeb appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiWeb appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiWeb 3000D occupies 2U (3.5 inches/8.9 cm). If the appliance has a redundant power supply, each power cable should be connected to a different power source.

You can configure FortiWeb for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiWeb only to your computer until you finish setup. (If you place FortiWeb in your network before FortiWeb is set up, traffic could be interrupted until setup is complete.) **Deployment instructions are in the FortiWeb Administration Guide.** One basic network topology is below.



To connect to the web UI

Requires: Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect port1 of the appliance to your computer.
2. Configure your computer to match the appliance's default port1 subnet.

   For example, on Windows 7, click the *Start* (Windows logo) menu to open it, then click *Control Panel*. Click *Network and Sharing Center*, *Local Area Connection*, and then the *Properties* button. Select *Internet Protocol Version 4 (TCP/IPv4)* then click its *Properties* button. Select *Use the following IP address*, then change your computer's settings to:

   - *IP address:* 192.168.1.2
   - *Subnet mask:* 255.255.255.0
3. To connect to FortiWeb's web UI, start a web browser and go to https://192.168.1.99 . (Remember to include the "s" in https://.)
4. Type `admin` in the *Name* field, leave the *Password* field blank, then click *Login*.

To connect to the CLI via serial console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:
   - *Baud rate:* 9600
   - *Data bits:* 8
   - *Parity:* None
   - *Stop bits:* 1
   - *Flow control:* None
3. Press Enter on your keyboard to connect to the CLI.

Shutting down



Always properly shut down the FortiWeb appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiWeb appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the web UI

1. Go to *System* > *Status* > *Status*.
2. In the *System Information* widget, click the *Shut Down* link.

   You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the *CLI Console* widget in *System* > *Status* > *Status*.
2. Enter the following command:

   ```
   execute shutdown
   ```

   You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

Registering your product



Register

You must register the product with Fortinet in order to receive:

• Technical support • Software updates
• FortiGuard updates

Enregistrer

Vous devez enregistrer le produit pour recevoir:

• Support technique • Mises-à-jour logiciel
• Mises-à-jour FortiGuard

Registra

La registrazione vi permette di usufruire di:

• Supporto tecnico • Aggiornamenti software • Aggiornamenti FortiGuard

Registrar

Debe registrar el producto para recibir:

• Apoyo técnico • Actualizaciones de software
• Actualizaciones FortiGuard

登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

• テクニカルサポート • ソフトウェアのアップデート • FortiGuardのアップデート

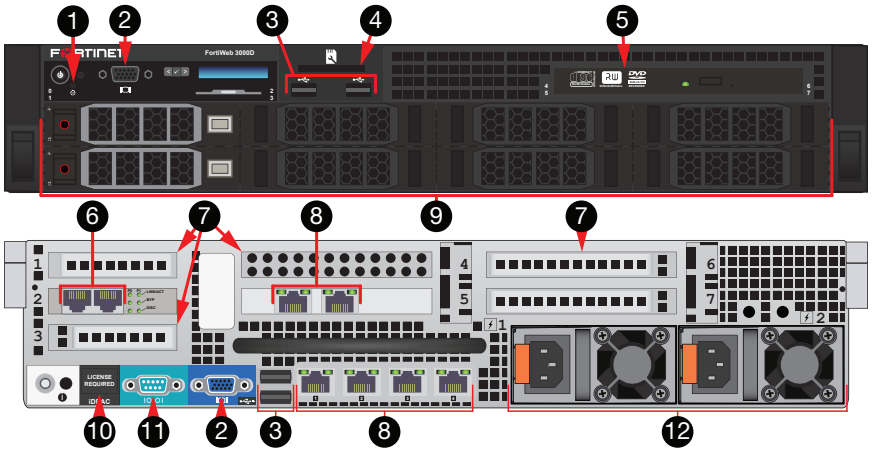
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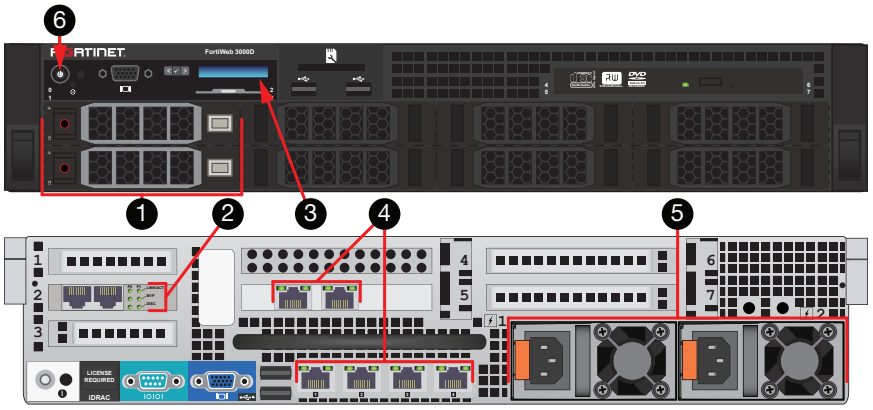
☒在注☒以后才能得到技☒支持，☒件升☒，及FortiGuard最新威☒防☒

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

Ports & LEDs



#	Interface	Type	Protocol	Description
1	NMI			To output a kernel dump to the serial console CLI then reboot, insert a pin.
2	Video	VGA		Reserved for future use.
3	USB	USB-A	USB 2.0	Reserved for future use.
4	Flash Media	SD		Reserved for future use.
5	Optical Drive	SATA		Reserved for future use.
6	Ethernet Ports 5 & 6	RJ-45	Gigabit Ethernet	Connections to your network & the Internet. Port pairs wired for bypass/fail-open or disconnect upon power loss.
7	6 PCIe Slots	PCIe		Reserved for future use.
8	Ethernet Ports 1 - 4, 7 & 8	RJ-45	Gigabit Ethernet	Connections to your network & the Internet. Port1 default: https://192.168.1.99
9	Hard Drives	SATA		Two 2TB hot swappable hard drives. 6 additional hard drive slots.
10	iDRAC7 Enterprise			Reserved for future use. Disabled.
11	Console	RJ-45	RS-232 serial	Connection to the management computer. 9600 bps access to the CLI.
12	Power (Redundant)			100 - 240 V 750W AC 60 - 50 Hz 4 - 2 A



#	LED	State	Description
1	Hard Drives	Green	Hard drive is online.
		Flashing Amber 4 times/second	Hard drive has failed. **Note:** If a RAID failure halts the booting process, press any key to continue booting, or press C to load RAID configuration utility.
		Flashing Green, Amber, and Off	RAID predicts hard drive will fail.
		Flashing Green 2 times/second	Hard drive is rebuilding.
		Off	Hard drive is ready to insert or remove.
2	Ports 5 & 6 Network Activity/Link (“LINK/ACT”)	Green	Link detected.
		Flashing Green	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Bypass (“BYP”)	Green	Bypass/fail-open is active.
		Off	Bypass/fail-open is off, or power lost.
	Disconnect (“DISC”)	Green	Disconnect is active.
		Off	Disconnect is off, or power lost.
3	Status	Blue	System is normal.
		Amber	System failure.

#	LED	State	Description
4	Ports 1 - 4, 7 & 8 Network Activity/Link	Flashing Green	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
	Speed	Green	1 Gbps link.
		Amber	Link is less than 1 Gbps.
		Off	Link not detected. (Cable may be disconnected/damaged, or power lost.)
5	Power Supplies	Green	Appliance is receiving power.
		Flashing Amber/ Green	Power supplies are mismatched.
		Off	Power is not connected, or PSU failed.
6	Power Button	On	Appliance is powered on. **Do not power off without first halting the operating system. Failure to shut down properly may damage the disks and cause data loss.**
		Off	Appliance is powered off.

Dual CP8 ASIC chips located in PCIe slot 3 act as co-processors for SSL/ TLS acceleration.

Environmental specifications

- **Operating temperature** — 10 to 40°C (50 to 104°F) If this device is installed in a closed or multi-unit rack assembly, the rack's ambient temperature may be greater than the room's ambient temperature. Make sure the rack environment is compatible with the maximum rated ambient temperature (T_{ma}).
  Température ambiante élevée — 10 à 40 ° C (50 à 104 ° F) Si cet appareil est installé dans un cabinet fermé, la température ambiante du cabinet peut être supérieure à la température ambiante de la pièce. Assurez- vous que l'environnement dans le cabinet est compatible avec la température ambiante maximale (T_{ma}).
- **Storage temperature** — -40 to 65°C (-40 to 149°F)
  Température d'entreposage — -40 à 65°C (-40 à 149°F)
- **Humidity** — 20 to 90% non-condensing
  Humidité — 20 à 90% sans condensation
- **Operating altitude** — < 2250 m (7380 ft)
  Altitude opérationnelle — <2250 m (7380 pi)
- **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 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.
  Ventilation — Pour une installation dans un cabinet, assurez-vous que la ventilation nécessaire au fonctionnement de l'équipement n'est pas compromise. Pour une installation autonome, assurez-vous que l'appareil dispose d'au moins 2 pouces (5 cm) de dégagement de chaque côté pour permettre l'écoulement de l'air et un refroidissement adéquat.
- **Circuit overloading** — To avoid overloading, use the ratings on the label. Consider the equipment's connection to the supply circuit and the effect that circuit overloading might have on current protection and supply wiring.
  Surtension — Pour éviter de surcharger le circuit d'alimentation, référez-vous aux notes sur l'étiquette de l'équipement. Envisagez l'effet que la surtension du circuit pourrait avoir sur la protection de surtension et le câblage d'alimentation.
- **Reliable earthing** — Make sure all rack-mounted equipment is grounded. This includes supply connections (e.g. power strips), not only direct connections to the branch circuit.
  Mise à la terre – Assurez-vous que tout l'équipement est mis à la terre. Ceci comprend les connexions d'alimentation (par exemple, les barres d'alimentation) en plus des connexions directes au circuit de dérivation.
- **Interference** — If possible, use Shielded Twisted Pair (STP) Ethernet cables instead of Unshielded Twisted Pair (UTP).
  Interférence — Si possible, utilisez des câbles Ethernet de paire torsadée blindée (STP) plutôt que de paire torsadée non blindée (UTP).

Safety

- **Mechanical loading** — To avoid personal injury or damage to the appliance, Fortinet recommends that 2 or more people together install the appliance into the rack. Balance the equipment to avoid uneven mechanical loading and tipping. Do not place heavy objects on the appliance.
  Installation – Pour éviter des blessures ou des dommages à l'appareil, Fortinet recommande que deux personnes ou plus installent ensemble cet équipement dans un cabinet. L'installation du matériel à l'intérieur de la baie doit être effectuée de façon à éviter toute situation dangereuse liée à une installation non conforme. Ne placez pas d'objets lourds sur l'appareil, celui-ci n'étant pas conçu pour soutenir un poids additionnel.
- **Grounding** — Disconnect power cables before servicing. Do not connect or disconnect cables during lightning; this may damage your device or cause personal injury. Connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. To prevent damage to your equipment, use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. For DC installations, a readily accessible UL Listed disconnect device (e.g. circuit breaker) with over current protection suitable for local code must be incorporated in the building installation wiring. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing. For your safety, qualified service personnel must permanently connect this terminal to the ground using a green-with-yellow conductor, minimum size #14 AWG.
  Mise à la terre — Débranchez les cordons de la source d'alimentation avant tout entretien. Ne pas brancher ou débrancher les câbles lors d'un orage afin de ne subir aucun dommage corporel et éviter d'endommager votre appareil. Assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Pour éviter d'endommager votre matériel, utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. En cas d'alimentation en courant continu (DC en anglais), un dispositif facilement accessible de déconnexion UL (par exemple, disjoncteur) avec protection contre les surintensités adapté à la réglementation locale doit être incorporé dans l'installation électrique du bâtiment. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.
- **Battery** — For devices that contain a battery, there is a risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries according to your local regulations.
  Batterie — Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales.
  警告
  本電池如果更換不正確會有爆炸的危險
  請依製造商說明書處理用過之電池

Regulatory compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- 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 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 it is not installed and used in accordance with the instruction manual, it 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.
Warning: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de la classe A préscrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

Voluntary Control Council for Interference (VCCI) – Japan

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

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
https://www.fortinet.com/bsmi

China

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European Conformity (CE) – EU

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

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The parties to this agreement are you, the end customer, and either (i) where you have purchased your Product within the Americas, Fortinet, Inc., or (ii) where you have purchased your Product outside of the Americas, Fortinet Singapore Private Limited (each referred to herein as "Fortinet") .CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THE OR THIS "AGREEMENT" OR "EULA"). USE OF 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 ALL OF THE TERMS OF THIS AGREEMENT, DO NOT START THE INSTALLATION PROCESS OR USE THE PRODUCTS. IF YOU DO NOT AGREE TO THE PROVISIONS OF THIS AGREEMENT, YOU SHOULD IMMEDIATELY, AND IN NO EVENT LATER THAN FIVE (5) CALENDAR DAYS AFTER YOUR RECEIPT OF THE PRODUCT RETURN THE PRODUCTS TO THE LOCATION WHERE YOU OBTAINED THEM FOR A FULL REFUND FROM THE PARTNER SELLING TO YOU.

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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, , power supplies, and accessories (provided, solely with respect to FortiAP indoor Wi-Fi access point Hardware appliance products and FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series (for both excluding spare parts, power supplies, and accessories), the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date), and, for spare parts, power supplies, and accessories, 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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FortiWeb 3000D QuickStart Guide

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7th Edition

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