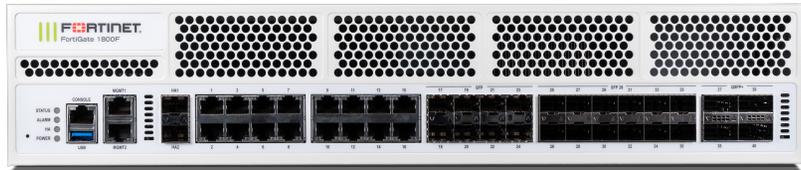


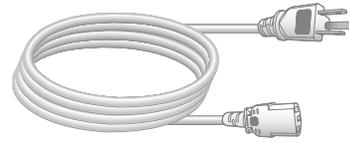
# FortiGate 1800F/1801F

Information Supplement

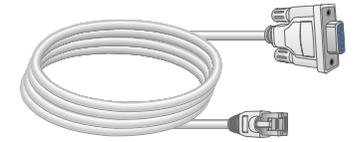
# Box Includes



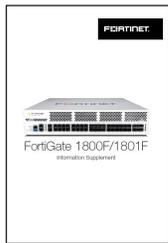
FortiGate 1800F/1801F



2x AC Power Cables



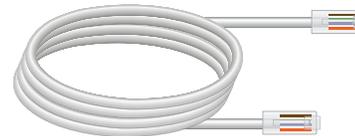
Console Cable



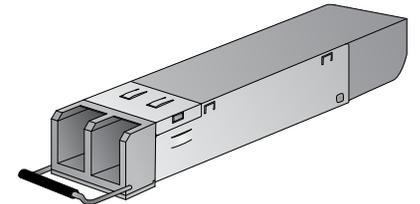
Information Supplement



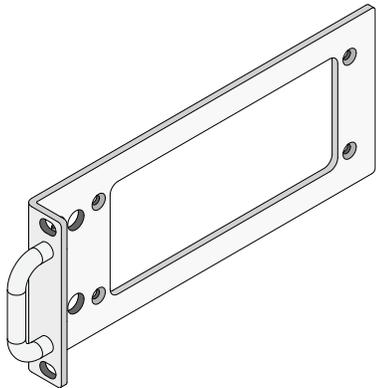
QuickStart Guide



Ethernet Cable



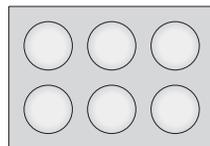
2x SFP+ Transceivers



2x Rack-Mount Brackets

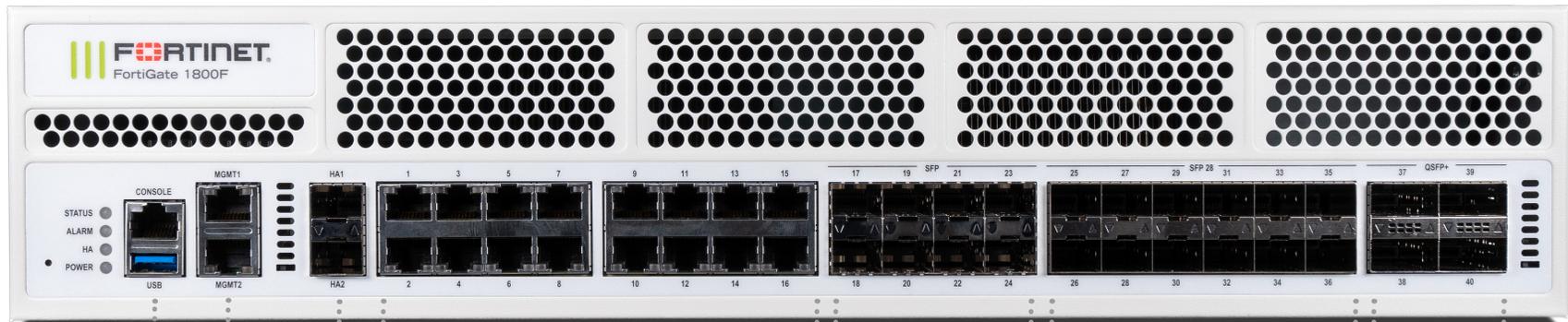


12x Bracket Screws



6x Rubber Feet

# FortiGate 1800F/1801F



**USB (USB A)**   
USB 3.0 server port

 **Ethernet Ports 1 to 16 (RJ-45)**  
1Gbps Ethernet local network ports

**Ports 17 to 24 (SFP)**  
Supports 1Gbps

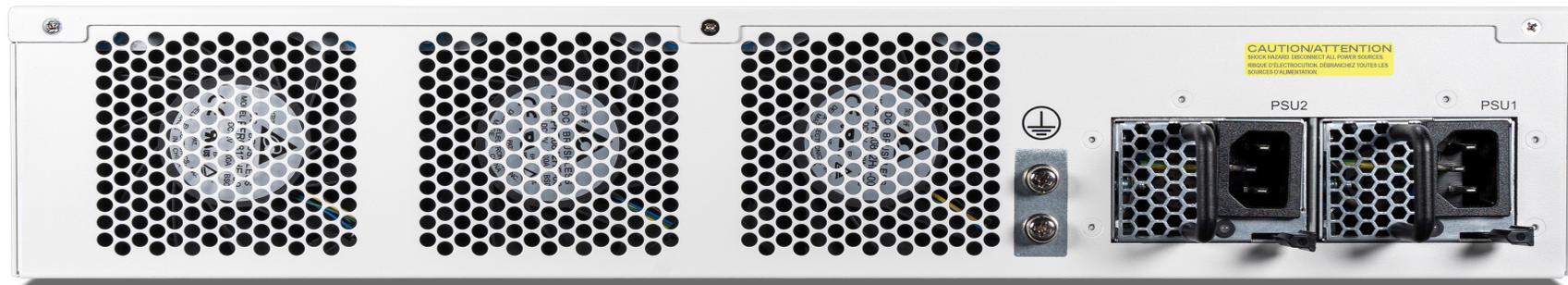
**Ports 37 to 40 (QSFP+)**  
Supports 40Gbps

**SFP Ports HA1 & HA2 (SFP+)**  
Optional 10Gbps connection to other FortiGate units  
for High Availability (HA)

**Ports 25 to 36 (SFP+/SFP 28)**  
Supports 10Gbps/25Gbps

**MGMT Ports (RJ-45)**  
Client ports for management  
Default IP address of MGMT1 is 192.168.1.99  
Default IP address of MGMT2 is 192.168.2.99

**Power**  
100-240V AC, 50/60Hz, 7-3A  
Hot Swappable, Redundant (1+1) Power Supplies



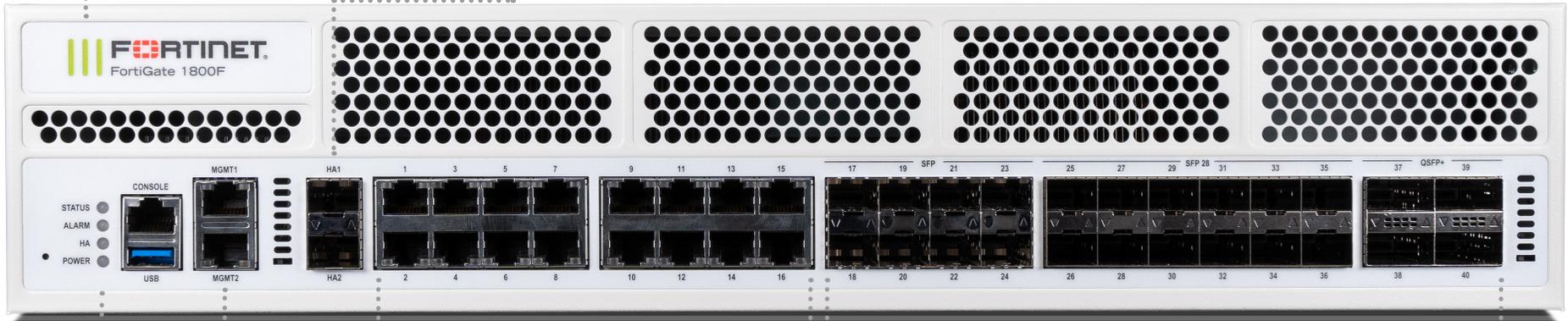
# FortiGate 1800F/1801F

## Fortinet Logo

- Green: The unit is on
- Off: The unit is off

## HA1 & HA2 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established



## MGMT1 & MGMT2 Speed

- Green: Connected at 1000Mbps
- Off: No link established

## MGMT1 & MGMT2 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving
- Off: No link established

## Ports 17 to 40 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

## Status

- Green: Normal
- Flashing Green: Booting up
- Red: Major alarm

## Alarm

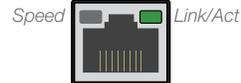
- Red: Major alarm
- Amber: Minor alarm
- Off: No alarms

## HA

- Green: Operating in an HA cluster
- Red: HA failure
- Off: HA disable

## Power

- Green: The unit is on
- Off: The unit is off



## Ports 1 to 16 Speed

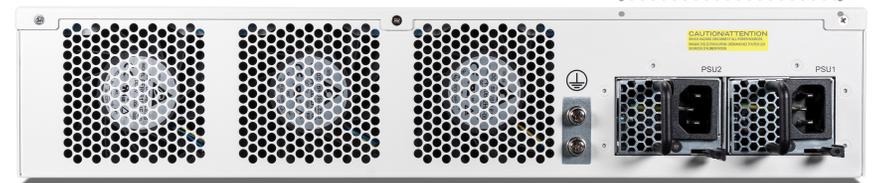
- Green: Connected at 1000Mbps
- Amber: Connected at 100Mbps
- Off: No link established

## Ports 1 to 16 Link/Activity

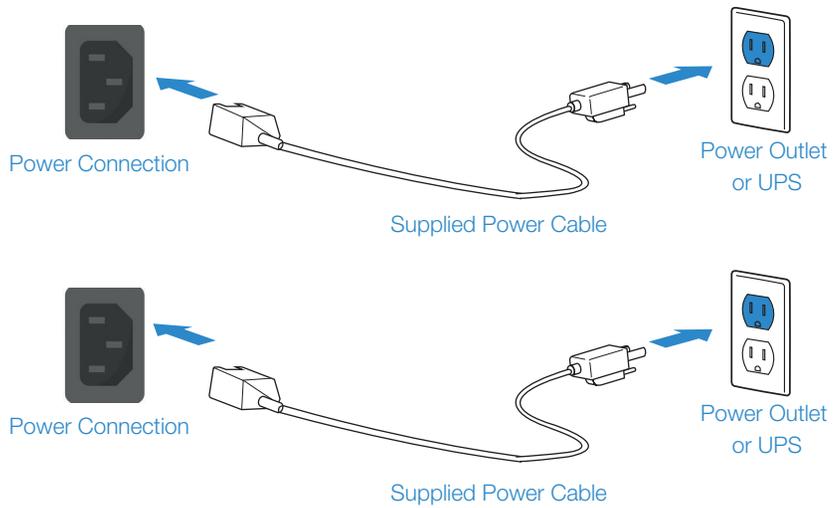
- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

## Power Supply

- Green: Power supply providing power
- Flashing Green: Power supply not providing power
- Off: Error or no power
- Red: AC cord unplugged or AC power lost
- Flashing Red: Power supply warning events



## Basic Connections



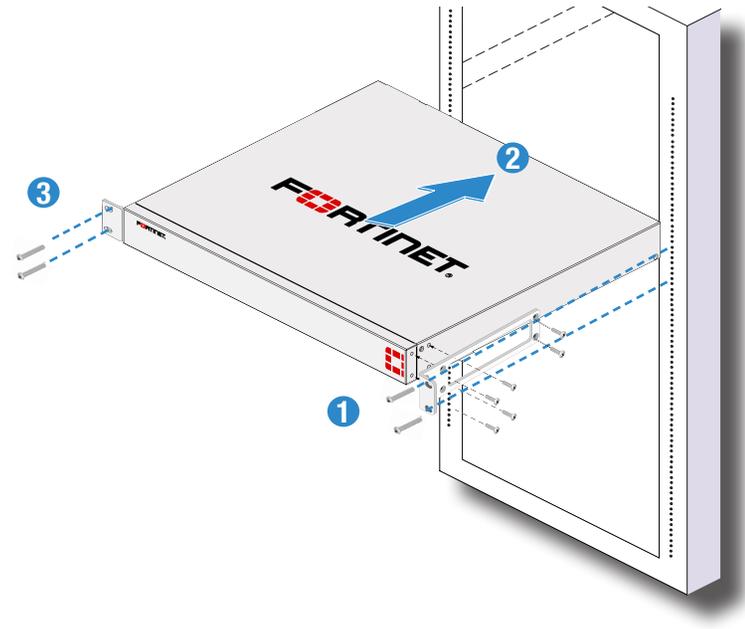
Plug in your device to a [power outlet](#) using the provided [power cables](#).

**Note:** We recommend connecting your FortiGate to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

## Rack Installation

This device mounts in a standard 19 inch rack.

1. [Attach](#) the provided rack-mount [brackets and screws](#)
2. [Position](#) the device and [slide](#) into the rack
3. [Fasten](#) rack screws to [secure](#) the device



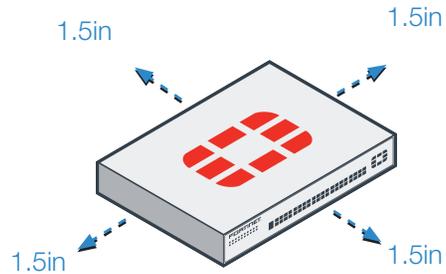
**Caution:** Ensure there is at least 1.5 inches of space above and below the device

**Warning:** For safety, it is recommended that two people install the device

## Desktop Installation

You can also install this device as a desktop unit.

1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow

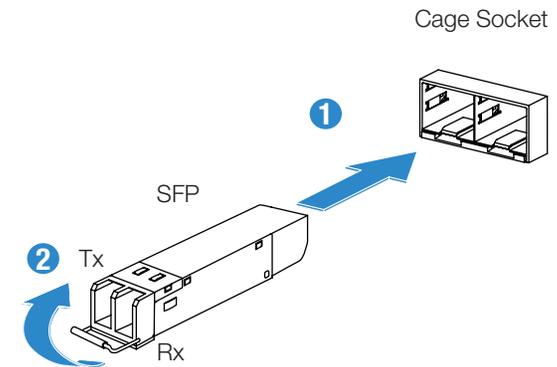


3. Plug in the provided power cables into the rear of the unit and then into a grounded electrical outlet or separate power source

## SFP Installation

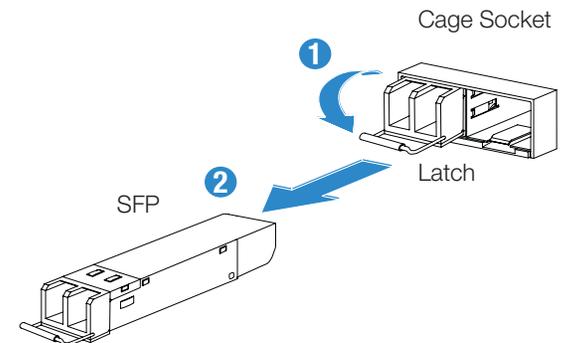
To install the SFP transceivers:

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



To remove the SFP transceivers:

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



## Cautions and Warnings

### Environmental specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:  
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

**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 (Tma) specified by the manufacturer.

**Température ambiante élevée** - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipuléee par le fabricant.

**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.

**Ventilation réduite** - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

**Mechanical Loading** - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.  
**Chargement Mécanique** - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

**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.  
**Surtenstion** - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

**Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to jupyter connections other than direct connections to the branch circuit (e.g. use of power strips).

**Fiaibilité de la mise à la terre** - Fiaibilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Warning:** Equipment intended for installation in Restricted Access Location.  
**Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

**Warning:** A readily accessible disconnect device shall be incorporated in the building installation wiring.  
**Avertissement:** Un dispositif de déconnexion facilement accessible doit être incorporé dans l'installation électrique du bâtiment.

**Battery** - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

**Batterie** - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

**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

**CAUTION:** Shock Hazard. Disconnect all power sources.  
**ATTENTION:** Risque d'électrocution. Débranchez toutes les sources d'alimentation.

**Caution:** Slide/rail mounted equipment is not to be used as a shelf or a work space.

**Attention:** Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

## Regulatory Notices

### 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 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 communica-tions. 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 Regula-tions of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### 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.



### Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅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。

V C C I – A

### Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法 (PSE) の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

限用物質含有情況表 (RoHS Table) 請到以下 網址下載：  
https://www.tfortinet.com/bsmi

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

英屬蓋曼群島商防特網股份有限公司台灣分公司

地址：台北市內湖區行愛路176號2樓  
電話：(02) 27961666

### China

此為A級產品，在生活環境中，該產品可能會造成無線電干擾。這種情況下，可能需要用戶對其採取切實可行的措施。

## Fortinet Product License Agreement / EULA and Warranty Terms

### Product License Agreement

The parties to this agreement are you (the end-customer) and Fortinet, Inc. ("Fortinet"). CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THE OR THIS "AGREEMENT" OR "EULA"). USE OR INSTALLATION 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 TERMS IN THIS AGREEMENT, AS AMENDED OR UPDATED FROM TIME TO TIME IN FORTINET'S DISCRETION BY FORTINET PUBLISHING AN AMENDED OR UPDATED VERSION. 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. 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 TERMS OF THIS AGREEMENT, YOU SHOULD IMMEDIATELY, AND IN NO EVENT LATER THAN FIVE (5) CALENDAR DAYS AFTER YOUR RECEIPT OF THE PRODUCT, IMMEDIATELY NOTIFY FORTINET LEGAL.LEGAL@FORTINET.COM OF REQUESTED EULA CHANGES.

#### 1. License Grant

This is a license agreement between you and Fortinet, not a sales agreement. The term "Software", as used throughout this Agreement, includes all Fortinet and third party firmware and software provided to you with, or incorporated into, Fortinet appliances and any stand-alone software provided to you by Fortinet, with the exception of any open source software contained in Fortinet's Products which is discussed in detail in section 15 below, and the term "Software" includes any accompanying documentation, any updates and enhancements of the software or firmware provided to you by Fortinet, at its option. Fortinet grants to you a non-transferable (except as provided in section 5 ("Transfer") and section 15 ("Open Source Software") below), non-exclusive, revocable (in the event of your failure to comply with these terms, in the event of termination, or in the event Fortinet is not properly paid for the applicable Product) license to use the Software solely for your internal business purposes (provided, if (a) agreed by Fortinet in writing, (b) you are authorized by Fortinet in writing to provide managed service provider services ("MSSP") to your end-customers, and (c) you pay for an MSSP license, then you may use the Software and/or Software embedded in Fortinet Hardware to provide those services, subject to the other restrictions in this Agreement), in accordance with the terms set forth in this Agreement and subject to any further restrictions in Fortinet documentation (including license term restrictions), and solely on the Fortinet appliance or, in the case of blades, CPUs, platform, devices or databases, on the single blade, CPU, platform, device or database on which Fortinet installed the Software, or, for stand-alone Software, solely on a single computer running a validly-licensed copy of the operating system for which the Software was designed unless and except set forth in the published documentation otherwise. For clarity, notwithstanding anything to the contrary, all licenses of Software to be installed on blades, CPUs, platforms, devices or databases are licensed per blade, solely for one blade and not for multiple blades that may be installed in a chassis, per CPU, per platform, per device, or per database basis, up to the blade, CPU, platform, device, database number defined in the license and as applicable and in accordance with the documentation. The Software is "in use" on any appliances, blades, CPUs, platforms, devices, or databases when it is loaded into temporary memory (i.e. RAM), accessed, downloaded, installed, or used on an appliance, blade, CPU, platform, device, or database. You agree that, except for the limited, specific license rights granted in this section 1, you receive no license rights to the Software.

#### 2. Limitation on Use.

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 you or make the Software available or accessible to third parties in any other manner (except as expressly permitted for MSSP partners); (c) transfer assign or sublicense rights to any other person or entity (except as provided in section 5); (d) remove any proprietary notice, labels, or marks on the Software, Products, and containers; (e) use the Software to determine, or disclose the results of, any benchmarking or performance measurements; (f) interfere with a platform for use of the Software; (g) use the Software on a device not owned and controlled by you; (h) use automated means to access online portions of the platform for the Software; or, (i) use the Software for third-party training, commercial time-sharing or service bureau use or use the Software to provide services to third parties, except as expressly set forth in this Agreement.

#### 3. Proprietary Rights.

All rights (including copyrights, trade secret, patent and other intellectual property rights), title, interest in and to the Software and any Product, and any copy thereof remain with Fortinet. You acknowledge that no title or other intellectual property rights in the Software or other Products is transferred to you and you will not acquire any rights to the Software or other Products except for the specific limited license as expressly set forth in section 1 ("License Grant") above. You expressly agree and acknowledge that Fortinet owns, retains, and shall retain all intellectual property rights in and to, and you have no intellectual property rights in and to, the Products and the Software other than the License Grant. You agree to keep confidential all Fortinet confidential information and only to use such information for the purposes for which Fortinet disclosed it.

#### 4. Term and Termination.

The term of the license is the shorter of (a) the term as set forth in the ordering documents, other Fortinet documentation, or per Fortinet practices or policies (such as with evaluation or beta licenses or subscription or other term licenses) and (b) for the duration of Fortinet's copyright in the Software. Fortinet may terminate this Agreement, and the licenses and other rights herein, immediately without notice if you breach or fail to comply with any of the terms and conditions of this Agreement or for other reasons as stated in Fortinet's other documentation. You agree that, upon such termination, you will cease using the Software and any Product and either destroy all copies of the Fortinet documentation or return all materials to Fortinet.

#### 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 and all licenses 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 and Services, you are not authorized to sell Product(s), Software or Services, but, regardless, by selling Product(s), Software or Services, 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. Fortinet's license, warranty, and support is only provided for Products that you purchased directly from an authorized Fortinet channel partner. Products not purchased from an authorized Fortinet channel partner are not eligible, will not be supported, and may be blocked from registration.

#### 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 properly registered on Fortinet's Support Website, https://support.fortinet.com, or such other website as provided by Fortinet, or for which the warranty otherwise starts according to Fortinet's policies, and any support is only valid for products properly purchased through authorized distributors and resellers. The warranty periods discussed below will start according to Fortinet's policies posted at http://www.fortinet.com/aboutus/legal.html or such other website as provided by Fortinet. 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. Fortinet provides no warranty for any beta, donation or evaluation Products. Fortinet warrants that the hardware portion of the Product ("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) a three hundred sixty-five (365) day limited warranty for the Hardware products; (b) for FortiAP, 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 Hardware; (c) for FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series, 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 Hardware. Fortinet's sole obligation shall be to repair or offer replacement Hardware for the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor, de-installation, installation, reconfiguration, or return shipment and handling fees and costs, and Fortinet shall have no obligation related thereto. 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 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. Fortinet warrants that Software as initially shipped by Fortinet will substantially conform to Fortinet's then-current functional specifications for the Software, as set forth in the applicable documentation for a period of ninety (90) days ("Software Warranty Period"), if the Software is properly installed on approved Hardware and operated as contemplated in its documentation. Fortinet's sole obligation shall be to repair or offer replacement Software for the non-conforming Software with software that substantially conforms to Fortinet's functional specifications. This obligation is exclusive of transport fees, labor, de-installation, installation, reconfiguration, or return shipment and handling fees and costs, and Fortinet shall have no obligation related thereto. Except as otherwise agreed by Fortinet in writing, the warranty replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by Fortinet for the Software. The Software Warranty Period shall extend for an additional ninety (90) days after any warranty replacement software is delivered. 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