



# FortiAP U432F FortiAP U234F

Quick Start Guide



# About FAP-U432F

**IMPORTANT:** Supported only from FortiWLC Release 8.6.2 or later and FortiGate with FortiOS Release 6.4.4 and later.

The FAP-U432F is a tri-radio, dual band 802.11ax 2.4/5GHz outdoor access point and supports three 4x4 MIMO radios. This high performance device complies with the 802.3bt, 802.3at, and 802.3af PoE specifications and supports BLE and ZigBee.

The FAP-U432F supports 11 external 5dBi 2.4/5GHz dual band omni antennas and operates with a default TX power of (To be updated) dBm in 2.4GHz channels and (To be updated) dBm in 5.0GHz channels.

The FAP-U432F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud controllers. This device can be wall mounted or pole mounted. Use the supplied hardware components to complete installing the unit.

**CAUTION:**

There is a non-rechargeable coin battery inside DUT for the RTC function. Do Not recharge the battery as it may overheat and leak.

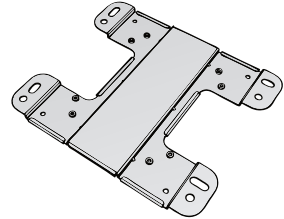
## FAP-U432F Box Includes



FortiAP-U432F



QuickStart Guide



Wall Mount Bracket



Pole Mount Bracket



Sector Antenna Bracket

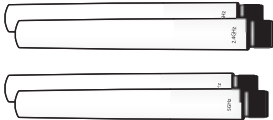


PIN060 POE Adapter  
Power Cable

## FAP-U432F Box Includes



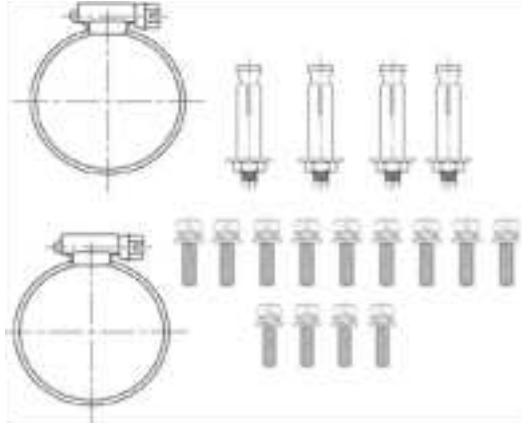
Grounding Cable



2.4 GHz Antenna

5 GHz Antenna

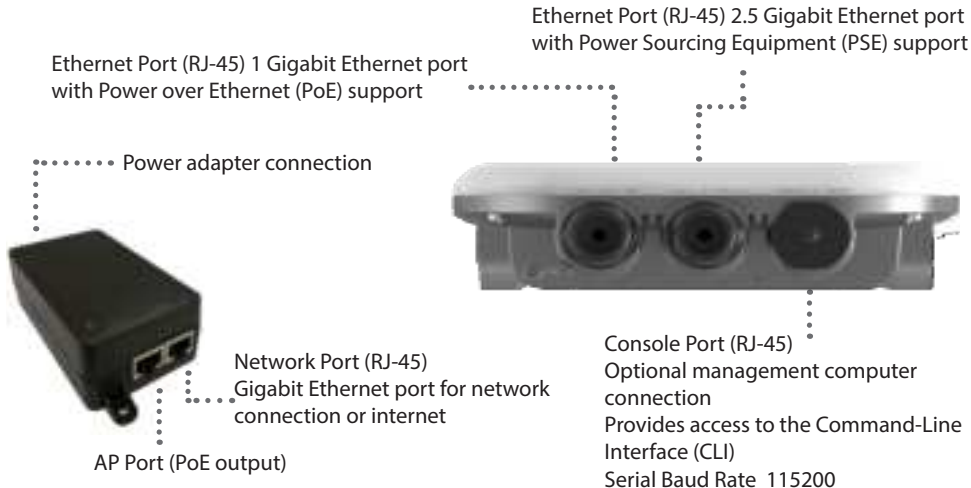
Dual band (2.4/5GHz) Antenna









Mounting Kit




(Pole Straps, Mounting Bolts and Screws, Grounding Screws)

# FAP-U432F Ports










#### 5 - Bluetooth, ZigBee and Radio 3

-  No light: Radio 3, BLE, and ZigBee are powered off
-  Green: Radio 3, BLE, and Zigbee are enabled
-  Blinking Green: Data Tx/Rx on Radio 3, BLE, and Zigbee
-  Amber: Radio 3 is up.
-  Blue: BLE is enabled
-  Red: Zigbee is enabled





-  Blinking Amber: Data Tx/Rx on Radio 3
-  Blinking Blue: Data Tx/Rx on BLE
-  Blinking Red: Data Tx/Rx on Zigbee .....

#### 4 - WiFi (Radio 1 and 2)





-  No light: Radio 1 and 2 are powered Off
-  Blue: Radio 1 is up.
-  Amber: Radio 2 is up.
-  Green: Both Radio 1 and 2 are up.

-  Blinking Blue: Data Tx/Rx on Radio 1. ....
-  Blinking Orange : Data Tx/Rx on Radio 2.
-  Blinking Green: Data Tx/Rx on both Radio 1 and 2.

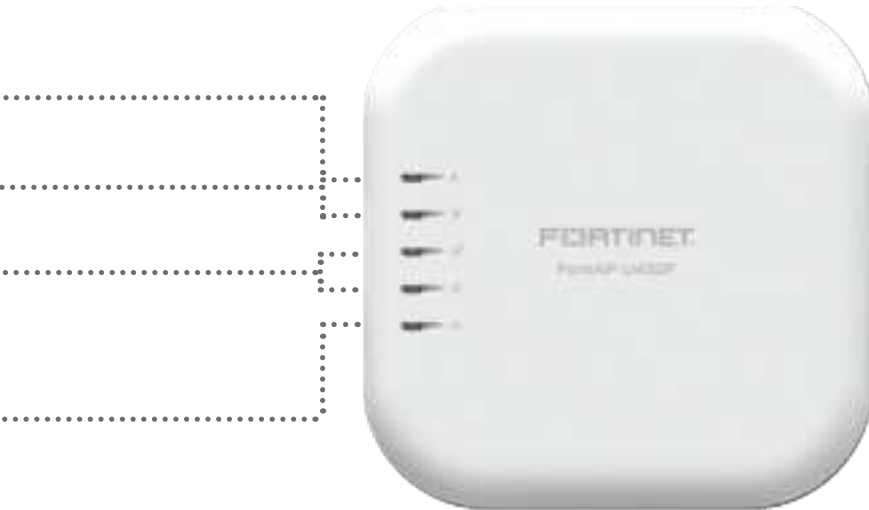
#### 2 - LAN1 and LAN 2 .....

-  No light: Link Down
-  Green: Link up
-  Blinking Green: Data Tx/Rx at 1Gbps
-  Blinking Orange: Data Tx/Rx at 100Mbps

#### 1 - Power .....

-  No light: Power Off/Wireless controller not found.
-  Steady Green: Power On
-  Blinking Green: Data Tx/Rx at 1Gbps.
-  Blinking Amber: Data Tx/Rx at 100Mbps.

## FAP-U432F LED Status



# FAP-U432F Antennas

The FortiAP unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access 2.4GHz radio (IEEE 802.11b/g/n) signals and the 5GHz antennas to access 5GHz radio (IEEE 802.11a/n/ac/ax) signals. To use both radio frequencies concurrently, use all 11 WiFi antennas. Follow this procedure to install the antennas.

1. Insert the antenna base firmly into the appropriate antenna mount.
2. Securely hand tighten the fastening collar
3. Repeat for the remaining antennas

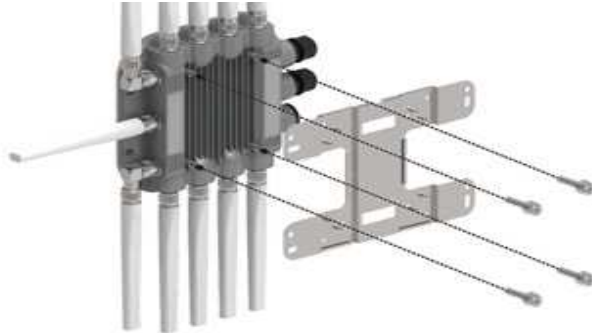




# Wall Mounting FAP-U432F

Follow this procedure to attach the unit to a wall using the supplied equipment.

1. Mark the location of the mounting bolt holes on a flat wall surface, using the wall-mount base as a template.
2. Drill mounting holes in the marked locations and hammer the bolts into the openings.
3. Attach the wall-mount base to the back of the access point using the mounting screws.



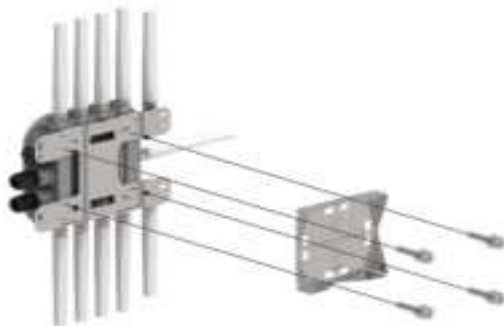
4. Attach the access point onto the wall using the mounting bolts and secure the mounting base to the wall.



## Pole Mounting FAP-U432F

Follow this procedure to attach the unit to a pole by using the supplied pole mount bracket, straps, and screws.

1. Attach the wall-mount bracket, then attach the pole-mount bracket using the mounting screws.



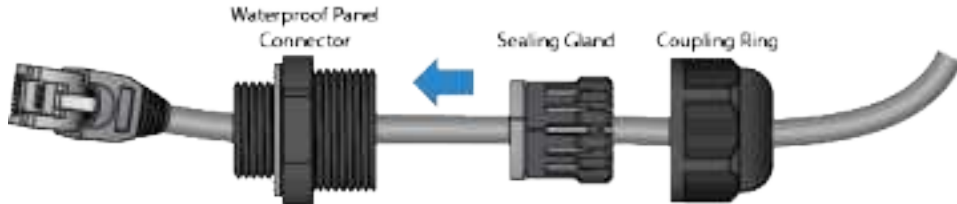
3. Loop the pole straps through the slots on the bracket, then around the pole.
4. Tighten the straps with screws to attach the unit securely to the pole.



# Installing Weatherproof Connectors

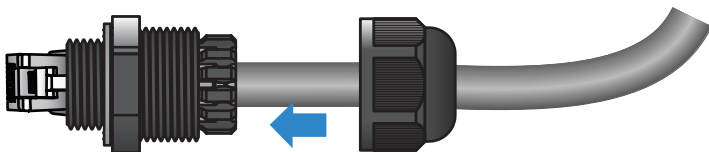
The weatherproof connects are provided for the LAN ports to ensure a watertight seal for connecting the Ethernet cable to the device.

1. Unscrew the coupling ring from the waterproof connector, remove the sealing gland, and thread the RJ-45 plug through the connector components.

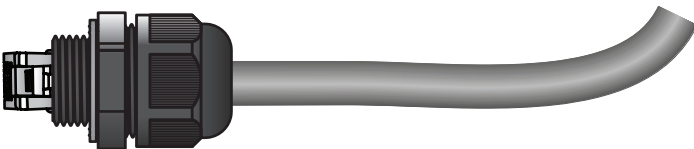


2. Insert the RJ-45 plug into the PoE port on the unit and install the weatherproof panel connector onto the threaded coupling at the port.

3. Slide the sealing gland along the cable into panel connector.



4. Thread the coupling ring onto the panel connector and tighten it until the sealing gland is compressed, making a watertight seal on the cable.



# About FAP-U234F

**IMPORTANT:** Supported only from FortiWLC Release 8.6.2 or later and FortiGate with FortiOS Release 6.4.4 and later.

The FAP-U234F is a tri-radio, dual band 802.11ax 2.4/5GHz outdoor access point and supports three 2x2 MIMO radios. This high performance device complies with the 802.3at and 802.3af PoE specifications and supports BLE and ZigBee.

The FAP-U234F operates with a default TX power of (To be updated) dBm in 2.4GHz channels and (To be updated) dBm in 5.0GHz channels.

The FAP-U234F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiCloud controllers. This device can be wall mounted or pole mounted. Use the supplied hardware components to complete installing the unit.

**CAUTION:**

There is a non-rechargeable coin battery inside DUT for the RTC function. Do Not recharge the battery as it may overheat and leak.

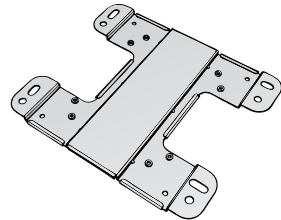
## FAP-U234F Box Includes



FortiAP-U234F



QuickStart Guide



Wall Mount Bracket



Pole Mount Bracket



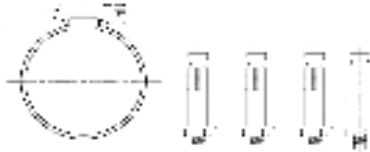
EPA5006GPR-4P POE Adapter  
Power Cable



Grounding Cable



## FAP-U234F Box Includes



Grounding Screw



Mounting Kit  
(Pole Straps, Mounting Bolts and Screws)

# FAP-U234F Ports







Ethernet Port (RJ-45) 1 Gigabit Ethernet port with Power over Ethernet (PoE) support




Ethernet Port (RJ-45) 1 Gigabit Ethernet port with Power over Ethernet (PoE) support







Console Port (RJ-45) Optional management computer connection Provides access to the Command-Line Interface (CLI) Serial Baud Rate 115200




#### 5 - Bluetooth, ZigBee and Radio 3

-  No light: Radio 3, BLE, and ZigBee are powered off
-  Green: Radio 3, BLE, and Zigbee are enabled
-  Blinking Green: Data Tx/Rx on Radio 3, BLE, and Zigbee
-  Amber: Radio 3 is up.
-  Blue: BLE is enabled
-  Red: Zigbee is enabled





-  Blinking Amber: Data Tx/Rx on Radio 3
-  Blinking Blue: Data Tx/Rx on BLE
-  Blinking Red: Data Tx/Rx on Zigbee

#### 4 - WiFi (Radio 1 and 2)





-  No light: Radio 1 and 2 are powered Off
-  Blue: Radio 1 is up.
-  Amber: Radio 2 is up.
-  Green: Both Radio 1 and 2 are up.

-  Blinking Blue: Data Tx/Rx on Radio 1.
-  Blinking Orange : Data Tx/Rx on Radio 2.
-  Blinking Green: Data Tx/Rx on both Radio 1 and 2.

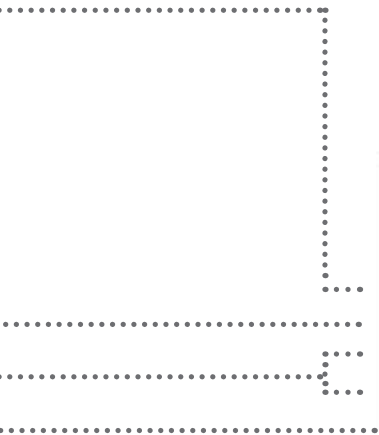
#### 2 - LAN1 and LAN 2

-  No light: Link Down
-  Green: Link up
-  Blinking Green: Data Tx/Rx at 1Gbps
-  Blinking Orange: Data Tx/Rx at 100Mbps

#### 1 - Power

-  No light: Power Off/Wireless controller not found.
-  Steady Green: Power On
-  Blinking Green: Booting up or Upgrading.
-  Amber: Reserved for Customizations.

## FAP-U234F LED Status



# Wall Mounting FAP-U234F

Follow this procedure to attach the unit to a wall using the supplied equipment.

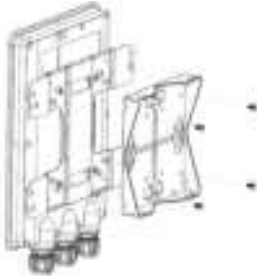
1. Mark the location of the mounting bolt holes on a flat wall surface, using the wall-mount base as a template.
2. Drill mounting holes in the marked locations and hammer the bolts into the openings.
3. Attach the wall-mount base to the back of the access point using the mounting screws.



# Pole Mounting FAP-U234F

Follow this procedure to attach the unit to a pole by using the supplied pole mount bracket, straps, and screws.

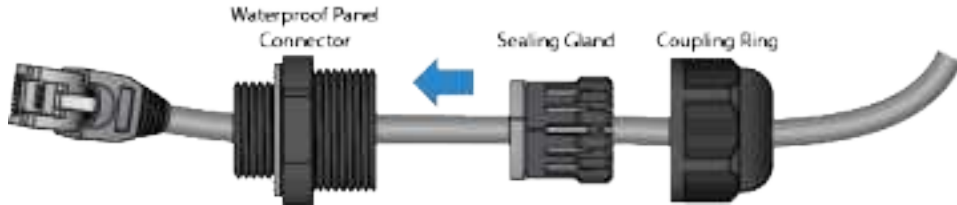
1. Attach the wall-mount bracket, then attach the pole-mount bracket using the mounting screws.
3. Loop the pole straps through the slots on the bracket and then around the pole.
4. Tighten the straps with screws to attach the unit securely to the pole.



# Installing Weatherproof Connectors

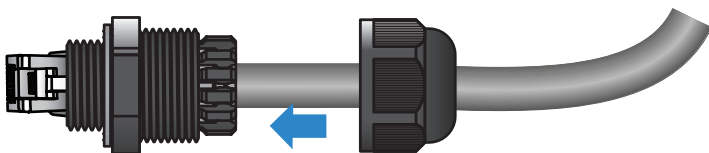
The weatherproof connects are provided for the LAN ports to ensure a watertight seal for connecting the Ethernet cable to the device.

1. Unscrew the coupling ring from the waterproof connector, remove the sealing gland, and thread the RJ-45 plug through the connector components.

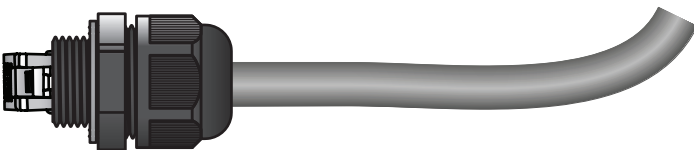


2. Insert the RJ-45 plug into the PoE port on the unit and install the weatherproof panel connector onto the threaded coupling at the port.

3. Slide the sealing gland along the cable into panel connector.



4. Thread the coupling ring onto the panel connector and tighten it until the sealing gland is compressed, making a watertight seal on the cable.





# Connecting FortiAP

Follow these steps to connect the FortiAP to your network.

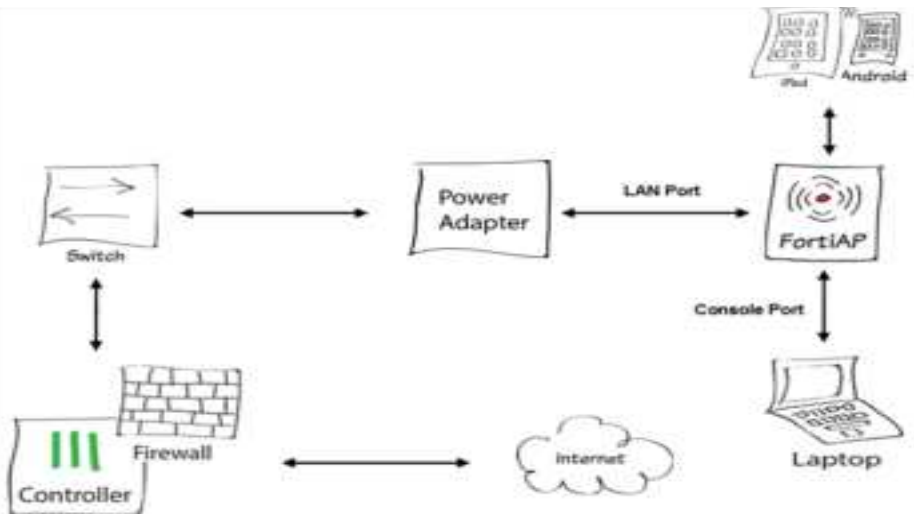
1. Connect one end of the ethernet cable to the LAN1 PoE+ port on the FortiAP. Connect the other end to the PoE port on the PoE adapter.
2. Connect one end of the ethernet cable to the LAN port on the PoE adapter. Connect the other end to a switch.
3. Connect one end of the console cable to the RJ-45 console port on the FortiAP. Connect the other end to a management computer for CLI access.

Optionally, connect one end of the ethernet cable to the LAN2 PSE port. Connect the other end to an external device for power sourcing.

4. Plug the PoE adapter into an appropriate power outlet. The PWR LED will light up.

## NOTE:

The PIN060 and EPA5006GPR-4P POE Adapters are proprietary. Do not reverse the wires' connection, as this may damage the endpoint device.



# Controller Discovery

The FortiAP boots up with the default FortiWLC AP image and tries to discover the FortiWLC, FortiGate, and FortiCloud controllers simultaneously.

The FortiAP connects to the controller that is first discovered.

- If FortiWLC controller is discovered, the unit continues booting up with the default FortiWLC image.
- If the FortiGate or the FortiCloud controller is discovered, the unit reboots with the FortiAP image.

For the FortiAP to discover the FortiCloud controller, you need to add the unique FortiCloud key labelled on the device to the FortiCloud. See section *FortiCloud Deployment*.

For the FortiAP to complete the FortiGate discovery, you need to authorize the FortiAP on the FortiGate. See section *FortiGate Deployment*.

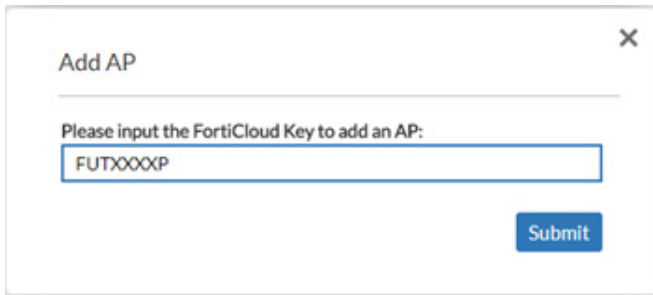
To bring the FortiAP back to factory default setting, insert a pin into the reset point on the power adapter and hold on for 10 seconds. Release the pin.

On the FortiAP image, run the *reload default factory* command to reset the FortiAP to factory default.

# FortiAP Cloud Deployment

Follow these steps to complete the FortiAP Cloud discovery.

1. Visit <http://www.fortiapcloud.com> and sign in or create a new account.
2. Click Inventory > Import AP Key and enter the unique FortiAP Cloud key located on your FortiAP device, then click Submit.



The screenshot shows a web-based dialog box titled "Add AP" with a close button (X) in the top right corner. Below the title is a horizontal line. The text "Please input the FortiCloud Key to add an AP:" is displayed above a text input field. The input field contains the text "FUTXXXXP". To the right of the input field is a blue button labeled "Submit".

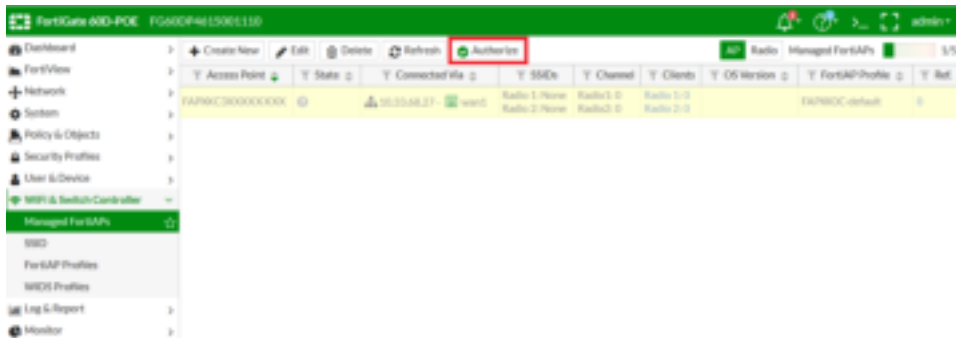
3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click Submit.

4. Follow the prompts to associate the FortiAP device to an SSID.
5. Connect your FortiAP to an Internet connection. This can be a modem or another source of Internet connectivity.

Configure the discovered FortiAP.

# FortiGate Deployment

To complete the FortiGate controller discovery process, you need to authorize the FortiAP on the FortiGate.



# Zero Configuration

The FortiAP unit is designed to require no configuration in most networks. Zero configuration mode works if the unit is on the same layer-2 network and subnet as the FortiWLC, or if the unit is on the same layer-3 network and subnet as the FortiGate or FortiCloud controller.

If the FortiAP wireless controller's IP address cannot be determined using Zero Configuration mode, or if the network uses static IP addresses, it can be configured to use a static IP address.

To enable the FortiAP using Zero Configuration:

1. After connecting the FortiAP unit as described in the previous chapter, the unit goes through its boot procedure and requests an IP address from the DHCP server.
2. If the IP address is retrieved successfully, the FortiAP enters discovery mode to locate a Controller.

The discovery modes for the FortWLC controller are:

- DHCP option 43
- DHCP option 138
- DNS
- Mesh PNP
- Static Controller IP address

The discovery modes for FortiGate controller are:

- DHCP option 138
- DNS
- Multicast
- Broadcast
- Static Controller IP address

The discovery mode for FortiCloud controller is:

- FortiCloud Protocol
3. Verify that the FortiAP has successfully connected to the controller in the FortiWLC/FortiCloud/FortiGate WebUI.



# Manual IP Configuration and Controller Discovery

To enable the FortiAP with a static IP address:

1. Connect the FortiAP device to a separate private switch or hub.
2. Access the AP console through the serial port.
3. To configure FortiAP's own IP address, type **ip config net static address** *<ip-address>* **netmask** *<netmask ip-address>* **gateway** *<gateway ip-address>*.
4. [FortiWLC only] To discover the controller, type **ip config l2l3** *<l2only | l2preferred | l3only | l3preferred>*.
5. To configure a designated wireless controller's IP address, type **ip config controller name** *<controller ip-address>*.
6. Save the configuration by typing **ip config save**.
7. Move the FortiAP to the intended deployment location and connect the Ethernet cable.

## Cautions and Warnings

### Environmental specifications

Ambient operating temperature: 0C to 60C

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.

Caution: This equipment is to be used in a Network Environment 0 per IEC62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

FAP-U432F is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 54 Vdc, 1.11A from PoE source.

Le FAP-U432F est conçu pour être alimenté par un bloc d'alimentation enfichable direct répertorié marqué LPS ou Classe 2 et évalué à 54 Vcc, 1,11 A à partir de la source PoE.

FAP-U234F is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 54 Vdc, 0.6A from PoE source.

Le FAP-U234F est conçu pour être alimenté par un bloc d'alimentation enfichable direct répertorié marqué LPS ou Classe 2 et évalué à

54 Vcc, 0,6 A à partir de la source PoE.

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning/surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre équipement, les connexions qui entrent de l'extérieur du bâtiment doivent passer par un parafoudre / surtension et être correctement mises à la terre. Utilisez une station de travail à décharge électrostatique (ESD) et / ou portez un bracelet antistatique pendant que vous travaillez. En plus de la borne de mise à la terre de la fiche, sur le panneau arrière, il y a une autre borne séparée pour la mise à la terre.

## 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 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

### For model FAP-U234F

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 36cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### For model FAP-U432F

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

For model FAP-U234F

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 37cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 37cm de distance entre la source de rayonnement et votre corps.

For model FAP-U432F

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 35cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 35cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

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.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal.

Caution: The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

Attention: Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

(iii) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

(iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

This radio transmitter (IC: 7280B-4111B8E0671 / Model: FAP-U432F) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 7280B-4111B8E0671 / Model: FAP-U432F) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This radio transmitter (IC: 7280B-371CBE0271 / Model: FAP-U234F) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 7280B-371CBE0271 / Model: FAP-U234F) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnent en association avec une autre antenne ou transmetteur.

For model FAP-U234F  
Antenna Type - Patch  
Antenna Connector - IPex

Antenna No.	Gain (dBi)					
	2400 MHz	2450 MHz	2500 MHz	UNII-1 & UNII-2	UNII-2C	UNII-3
Ant1	9.45	10.15	9.77	-	-	-
Ant2	9.21	10.12	10.33	-	-	-
Ant3	-	-	-	9.55	10.23	10.13
Ant4	-	-	-	9.87	10.39	10.82
Ant5				9.52	10.29	10.16
Ant6				9.79	10.21	10.54
Antenna Type	Dipole					
Antenna Connector	IPEX					
Scanning Ant1	4.21	4.23	4.64	4.56	4.0	4.12
Scanning Ant2	3.28	4.33	4.05	4.51	4.45	4.91
BLE/Zigbee	3.68	4.22	4.0	-	-	-

For model FAP-U432F  
Antenna Type - Dipole  
Antenna Connector - N-Type

Gain (dBi)	Frequency					
	2400 MHz	2450 MHz	2500 MHz	UNII-1 & UNII-2	UNII-2C	UNII-3
External Antenna	5.1	5	5.5	6.5	7.2	7
BLE/Zig-Bee	4.1	4.2	4.5	-	-	-

#### Professional Installation Instructions

##### 1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

##### 2. Installation location

For model FAP-U234F

The product shall be installed at a location where the radiating antenna can be kept 37 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

For model FAP-U432F

The product shall be installed at a location where the radiating antenna can be kept 35 cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

##### 3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

#### 4. Installation procedure

Please refer to user's manual for the detail.

#### 5. Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

#### Instructions d'installation professionnelle

##### 1. Installation

Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les règles s'y rapportant. L'installation et les réglages ne doivent pas être modifiés par l'utilisateur final.

##### 2. Emplacement d'installation

Pour le modèle FAP-U234F

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 37 cm entre l'antenne émettrice et les personnes.

Pour le modèle FAP-U432F

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 35 cm entre l'antenne émettrice et les personnes.

##### 3. Antenn externe.

Utiliser uniquement les antennes approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.

##### 4. Procédure d'installation

Consulter le manuel d'utilisation.

##### 5. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

## 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.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2402-2480MHz less than 20dBm

2405-2480MHz less than 20dBm

2412-2472MHz less than 20dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm \*

5500-5700MHz less than 30dBm \*

Note: \* Only with DFS bands certification.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end-customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български

Този продукт е в съответствие с Директива 2014/53/EC.

Česky

Tento produkt je v souladu se směrnicí 2014/53/EU.

Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti

See toode vastab direktiivile 2014/53/EL.

English

This product is in compliance with Directive 2014/53/EU.

Español

Este producto cumple con la Directiva 2014/53/EU.

Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français

Ce produit est conforme à la Directive 2014/53/EU.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/EU.

Latviski

Questo prodotto è conforme alla Direttiva 2014/53/EU.

Lietuvių

Šis gaminyš atitinka direktyvą 2014/53/ES.

Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português

Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky

Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko

Ta izdelek je v skladu z Direktivo 2014/53/EU.

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available at the link below:  
<https://site.fortinet.com/ProductRegulatory/EU>

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

この装置は、クラスB 機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

V C C I – B

# Fortinet Product License Agreement / EULA

## and Warranty Terms

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### Product License Agreement

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 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 THE FORTINET LEGAL TEAM IN WRITING AT [LEGAL@FORTINET.COM](mailto:LEGAL@FORTINET.COM) OF REQUESTED CHANGES TO THIS AGREEMENT.

#### 1. License Grant.

This is a license, not a sales agreement, between you and Fortinet. 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

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#### 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 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, (d) remove any proprietary notice, labels, or marks on the Software, Products, and containers, or (e) use the Software for third-party training, commercial time-sharing or service bureau use or use the Software to provide services to third

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Except for evaluation and beta licenses or other licenses, such as subscription licenses, where the term of the license is limited per the evaluation/beta or other agreement, in the ordering documents or otherwise, the term of the license is 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 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 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. 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, 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 and Meru AP 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 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 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. Fortinet warrants that the software as initially shipped with the Hardware Products 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

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ANYTHING TO THE CONTRARY, THE HARDWARE WARRANTY PERIOD DISCUSSED ABOVE DOES NOT APPLY TO CERTAIN FORTINET PRODUCTS, INCLUDING FORTITOKEN WHICH HAS A 365 DAY WARRANTY FROM THE DATE OF SHIPMENT FROM FORTINET'S FACILITIES, AND THE SOFTWARE WARRANTY DOES NOT APPLY TO CERTAIN FORTINET PRODUCTS, INCLUDING FORTIGATE-ONE AND VDOM SOFTWARE. YOU HEREBY ACKNOWLEDGE AND AGREE THAT NO VENDOR CAN ASSURE COMPLETE SECURITY AND NOTHING HEREIN OR ELSEWHERE SHALL BE DEEMED TO IMPLY A SECURITY GUARANTEE OR ASSURANCE.

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Any disputes arising out of this Agreement or Fortinet's limited warranty shall be governed by the laws of the state of California, without regard to the conflict of laws principles. In the event of any disputes arising out of this Agreement or Fortinet's limited warranty, the parties submit to the jurisdiction of the federal and state courts located in Santa Clara County, California, as applicable.

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TO THE MAXIMUM EXTENT PERMITTED BY LAW AND NOTWITHSTANDING ANYTHING TO THE CONTRARY, FORTINET IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY, INFRINGEMENT OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT OR SERVICE OR ANY DAMAGES OF ANY KIND WHATSOEVER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF PROFIT, LOSS OF OPPORTUNITY, LOSS OR DAMAGE RELATED TO USE OF THE

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#### 10. Import / Export Requirements; FCPA Compliance.

You are advised that the Products may be subject to the United States Export Administration Regulations and other import and export laws; diversion contrary to United States law and regulation is prohibited. You agree to comply with all applicable international and national laws that apply to the Products as well as end user, end-use, and destination restrictions issued by U.S. and other governments. For additional information on U.S. export controls see [www.bis.doc.gov](http://www.bis.doc.gov). Fortinet assumes no responsibility or liability for your failure to obtain any necessary import and export approvals, and Fortinet reserves the right to terminate or suspend shipments, services and support in the event Fortinet has a reasonable basis to suspect any import or export violation. You represent that neither the United States Bureau of Industry and Security nor any other governmental agency has issued sanctions against you or otherwise suspended, revoked or denied your export privileges. You agree not to use or transfer the Products for any use relating to nuclear, chemical or biological weapons, or missile technology, unless authorized by the United States Government by regulation or specific written license. Additionally, you agree not to directly or indirectly export, import or transmit the Products contrary to the laws or regulations of any other governmental entity that has jurisdiction over such export, import, transmission or use. Furthermore, you represent that you understand, and you hereby agree to comply with, all requirements of the U.S. Foreign Corrupt Practices Act and all other applicable laws. For beta, testing, evaluation, donation or free Products and/or related services, you hereby agree, represent and warrant to Fortinet that (a) receipt of the Products and/or services comply with all policies and you have obtained all necessary approvals for such Products and/or services, (b) the Products and/or services are

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#### 12. Tax Liability.

You agree to be responsible for payment of any sales or use taxes imposed at any time on this transaction.

#### 13. General Provisions.

Except as specifically permitted and required in section 5 ("Transfer") above, you agree not to assign this Agreement or transfer any of the rights or obligations under this Agreement without the prior written consent of Fortinet. This Agreement shall be binding upon, and inure to the benefit of, the successors and permitted assigns of the parties. The United Nations Convention on Contracts for the International Sales of Goods is expressly excluded. This Agreement and other Fortinet agreements may be amended or supplemented only by a writing that refers explicitly to the agreement signed on behalf of both parties, or, for this Agreement, as otherwise expressly provided in the lead-in above Section 1 above, provided, notwithstanding anything to the contrary and except for this Agreement which may be amended or updated as



expressly provided in the lead-in above Section 1 above, for any amendment or other agreement to be binding on Fortinet, such amendment or other agreement must be signed by Fortinet's General Counsel. No waiver will be implied from conduct or failure to enforce rights nor effective unless in a writing signed on behalf of the party against whom the waiver is asserted. If any part of this Agreement is found unenforceable, that part will be enforced to the maximum extent permitted and the remainder shall continue in full force and effect. You acknowledge that you have read this Agreement, understand it, and agree to be bound by its terms and conditions.

#### 14. Privacy.

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