

**FORTINET®**

# FortiAP U221EV/U223EV

Quick Start Guide

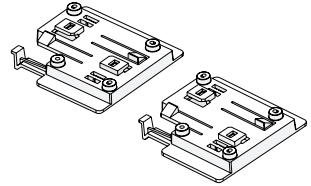
# FAP-U223EV Box Includes



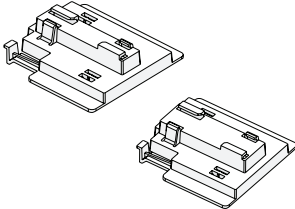
FortiAP-U223EV



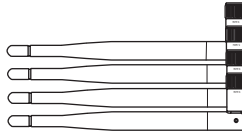
QuickStart Guide



Wall/Ceiling Mount & Standard  
Tile T-rail Bracket (2 Sizes)



Recessed Tile T-rail Bracket  
(2 Sizes)



5 GHz Antennas (2)  
2.4 GHz Antennas (2)



Screws (16)

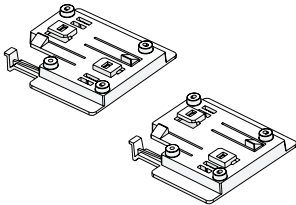
# FAP-U221EV Box Includes



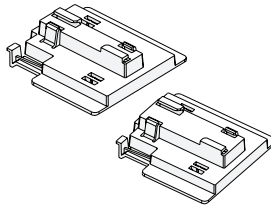
FortiAP-U221EV



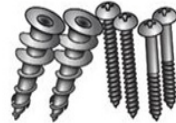
QuickStart Guide



Wall/Ceiling Mount & Standard  
Tile T-rail Bracket (2 Sizes)



Recessed Tile T-rail Bracket  
(2 Sizes)



Screws (16)

# Installation

**IMPORTANT:** Supported only from FortiWLC Release 8.4.0 or later and FortiGate with FortiOS Release 5.6.1 and later.

The unit can be mounted on a ceiling using the provided ceiling mounting bracket.

To attach the unit to a ceiling using the ceiling mount bracket:

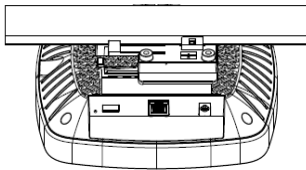
1. Attach the ceiling mount bracket to the bottom cover of the FortiAP unit by sliding the ceiling mount bracket from the left to the right onto the FortiAP Unit.

If extra space is required to accommodate drop ceiling tiles, use the taller ceiling mount bracket.



2. Select an appropriate location, hold the device against the ceiling t-rail, and push the FortiAP unit onto the ceiling until it snaps into place.

The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.



Note: Four ceiling mount brackets are included; both standard and recessed ceiling mount brackets come in sizes: 1.43cm (9/16in) and 2.38cm (15/16in).

To protect your device from unauthorized removal, use the Kensington™ Security Slot to attach a cable lock (not included).

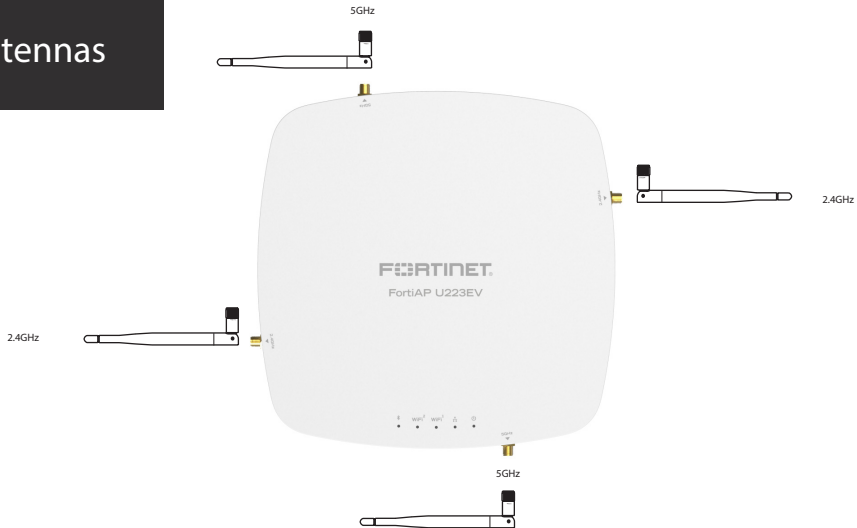
## Antennas (Applicable for U223EV only)

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) signals. To use both radio frequencies concurrently, use all four WiFi antennas.

### Installing the WiFi 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

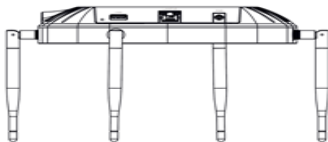
# Antennas



## AP Mounting and Antenna Position

### FAP U223EV

Ceiling Mounted



Wall Mounted



All 5.0GHz and 2.4GHz antennas are vertically oriented.



# Ports

USB Port (USB A)



Ethernet Port (RJ-45)  
Gigabit Ethernet port with  
Power over Ethernet (PoE)  
Powered Device (PD) support






Reset

Power  
12V, 2.5A

# LED Status






#### Power

-  Steady Green: FAP powered on.
-  Flashing Green: FAP is rebooting or upgrading firmware
-  Off: FAP is powered off.






#### LAN

-  Steady Green: Link is up
-  Off: No link
-  Flashing Green: Transmitting/Receiving at 1000Mbps






#### WiFi 1




-  Steady Green: 2.4G link is up
-  Off: Link down
-  Flashing Green: Transmitting/ Receiving in 2.4G



#### WiFi 2

-  Steady Green: 5G link is up
-  Off: Link down
-  Flashing Green: Transmitting/ Receiving in 5G

#### BLE

-  Steady Green: Bluetooth or BLE activity
-  Off: No activity
-  Flashing Green: Transmitting and Receiving



## Connecting

Using the provided mounting hardware, attach the FortiAP unit to the wall or ceiling.

Adequate grounding must be provided to the FortiAP unit in compliance with the local electrical code.

This device complies with the IEEE 802.af and 802.3at PoE specifications. Both PoEs support 2x2 MIMO with a default TX power of +24dBm (2.4GHz) and +23dBm (5.0GHz).

**Caution:** Do not use any PoE injectors that are not IEEE 802.3af or 802.3at compliant, as they may damage your device.

To connect the FortiAP unit:

1. Insert an Ethernet cable into the LAN port of the FortiAP unit.
2. Insert the other end of the Ethernet cable into your switch.
3. If you are not using PoE, connect the DC plug of the optional power adapter into the DC power jack on the FortiAP unit. and then insert the other end into an appropriate power outlet.
4. The power LED will light up.

## 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*.

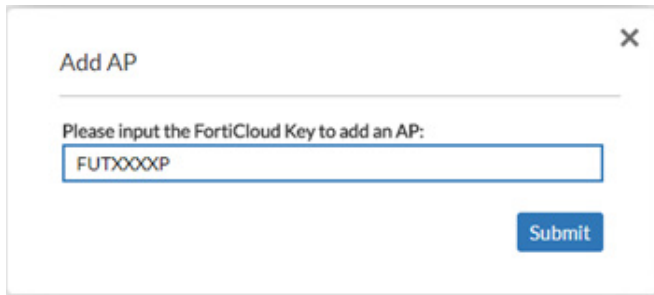
To bring the FortiAP back to factory default setting, insert a pin into the reset point on the power adapter and hold on for 10 seconds. Release the pin.

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

## FortiCloud Deployment

Follow these steps to complete the FortiCloud discovery.

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



Add AP

Please input the FortiCloud Key to add an AP:

FUTXXXXP

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 FortGate.

FortiGate 60D-POE FG60DP4615001110

admin

AP Radio Managed FortiAPs 1/5

Access Point	State	Connected Via	SSIDs	Channel	Clients	OS Version	FortiAP Profile	Ref.
FAPXXC3XXXXXX		10.33.68.27 wan1	Radio 1: None Radio 2: None	Radio1:0 Radio2:0	Radio 1: 0 Radio 2: 0		FAPXXC-default	0



## 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.

# Zero Configuration

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

# Zero Configuration

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 & 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.
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 50C

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

**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:** This equipment is to be used in a Network Environment per IEC/EN 62101. 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 IEC/EN 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 2A or by 54 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant

continu homologué UL de 12 Vdc, 2A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54 Vdc (PoE).

## 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.

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

operating in conjunction with any other antenna or transmitter.

**Caution:** Operation of this device is restricted to indoor use ONLY and operates in the 2412–2462, 5180–5240, 5260–5320, 5500–5720, 5745–5825 MHz bands.

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 Industry Canada's License-exempt RSSs. 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.

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

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 20cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

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.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

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.

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.

De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

This device has been designed to operate with an antenna having a maximum gain of 4.95 dBi for 2.4GHz and 5.83 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations

of ISED. The required antenna impedance is 50 ohms.

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

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 4.95 dBi pour 2,4 GHz et 5.83 dBi pour 5GHz. Une antenne ayant un gain supérieur sera strictement interdites par la réglementation d'ISED. L'impédance d'antenne requise est de 50 ohms.

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

This radio transmitter (IC: 7280B-241BC041) 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-241BC041) 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 fonctionnellement en association avec une autre antenne ou transmetteur.

Internal antenna Model:

Antenna	Qty	Antenna Type	Connector	Gain (dBi)	
				2.4GHz	5GHz
Wi-Fi Antenna	2	PIFA	IPEX	4.95	-
Wi-Fi Antenna	2	PIFA	IPEX	-	5.83
BT Antenna	1	PIFA	IPEX	-	3.67

External antenna Model:

Antenna	Qty	Antenna Type	Connector	Gain (dBi)	
				2.4GHz	5GHz
Wi-Fi Antenna	2	Dipole	SMA	4.58	-
Wi-Fi Antenna	2	Dipole	SMA	-	5.35
BT Antenna	1	PIFA	IPEX	-	3.67

## 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.



## 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/ЕС.

### Česky

Tento produkt je v souladu se směrnici 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/UE.

### Ελληνική

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

### Français

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

### 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 gaminys 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>

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

2412-2472MHz less than +24dBm

5180-5240MHz less than 23dBm

5260-5320MHz less than 23dBm \*

5500-5700MHz less than 30dBm \*

Note: \* Only with DFS bands certification.



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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of

the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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