

**FORTINET**



# FortiAP 223C

QuickStart Guide



January 13, 2015

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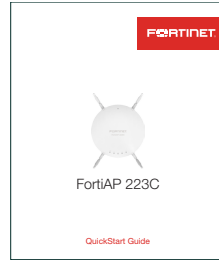
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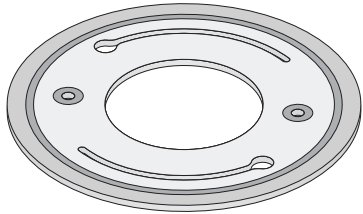
# Box Includes



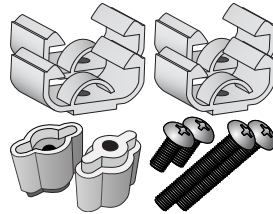
FortiAP 223C



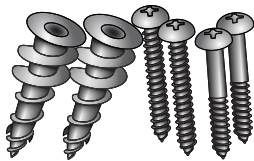
QuickStart Guide



Mounting Bracket



T-Rail Mounting Hardware Kit



Wall/Ceiling Mounting Hardware Kit



Two 5GHz Antennas



Two 2.4GHz Antennas

# Before You Begin

Write down details that you may need from your network administrator or ISP.

## DSL PPPoE

Username

Password

## Cable Modem DHCP

It is normal to not require a hostname, but your ISP may require it.

Hostname

## Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

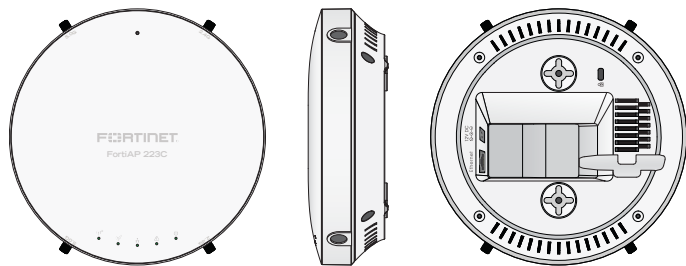


QuickStart Guide Video

<http://video.fortinet.com/video/38/fortigate-and-fortiwifi-quick-start-guide-5-0>

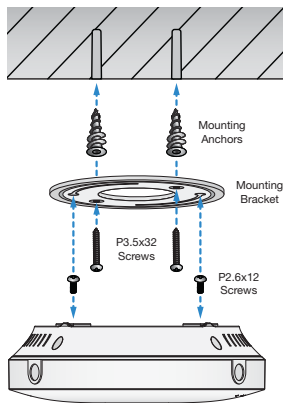
# 1 Installation

The unit can be mounted on a [wall or ceiling](#) using the provided [wall/ceiling mounting hardware kit](#), and to an appropriate [ceiling](#) using the [T-rail mounting hardware kit](#).



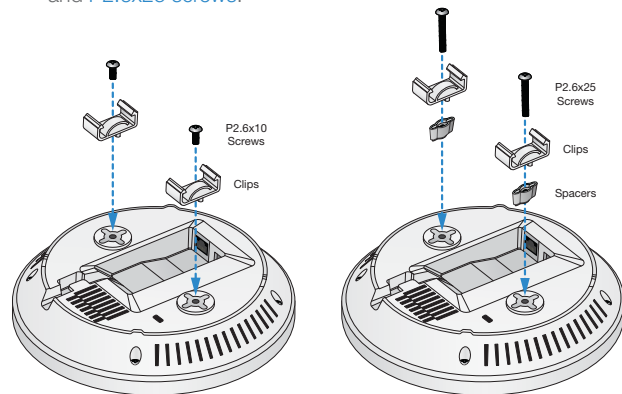
## To attach the unit to a wall or ceiling

1. Select an appropriate location, then mark the locations on the [wall or ceiling](#) where the [anchors](#) will be inserted.
2. [Drill](#) the mounting holes, then insert the [anchors](#) into the holes.
3. Attach the [mounting bracket](#) to the anchors using two [P3.5x32 screws](#).
4. Insert two [P2.6X12 screws](#) into the bottom of the unit, leaving enough of the screws exposed so that the unit can be mounted to the [mounting bracket](#). If extra space is required between the unit and the [mounting bracket](#), use the [spacers](#) and [P2.6x25 screws](#) from the [T-rail mounting hardware kit](#).
5. Mount the device on the mounted [mounting bracket](#) then rotate it [clockwise](#) to secure it in place.



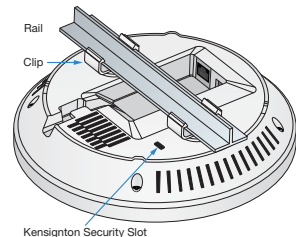
## To attach the unit to a T-rail

1. Attach the [T-rail clips](#) to the bottom of the unit using two [P2.6X10 screws](#). If extra space is required to accommodate drop ceiling tiles, use the provided [spacers](#) and [P2.6x25 screws](#).



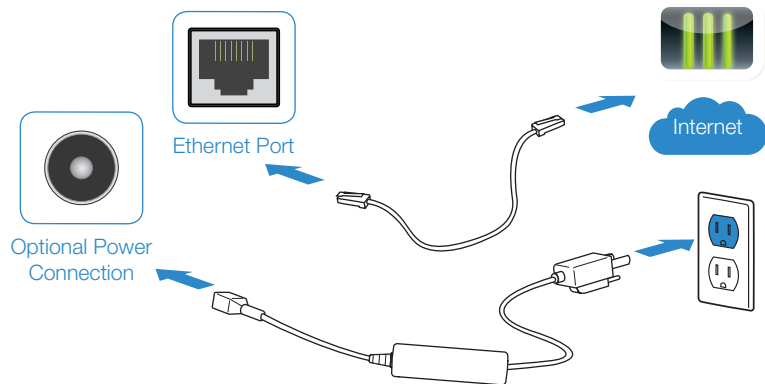
**Note:** Two sizes of [T-rail clips](#) are included in the mounting kit: 2.38cm (15/16in) and 1.43cm (9/16in).

2. Line up the connected [T-rail clips](#) with an appropriately sized rail, then [press](#) the unit into the rail until it [snaps](#) into place.



**Note:** To protect your device from unauthorized removal, use the [Kensington Security Slot](#) to attach a [cable lock](#) (not included).

## 2 Basic Connections



Connect your FortiAP device to a [FortiGate controller](#) or an [Internet connection](#).

If you are using [Power over Ethernet \(PoE\)](#), ensure that the cable is connected to an applicable port on your [FortiGate](#) device or [PoE injector](#).

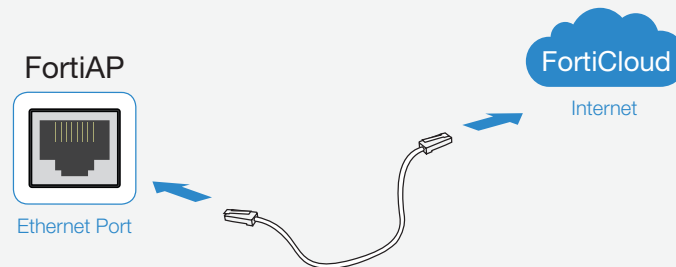
Optionally, connect your device to a [power outlet](#) using the optional power adapter.

**Caution:** Adequate [grounding](#) must be provided to the FortiAP unit in compliance with your [local electrical code](#) or [regulations](#).

**Warning:** This device complies with [IEEE 802.3af](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3af compliant](#) as they may damage your device.

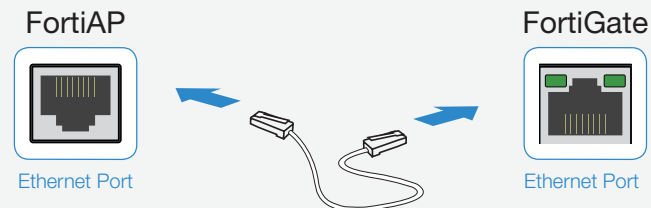
## 3 FortiAP Setup

### A Cloud provisioning with FortiCloud



OR

### B FortiGate secured on local network

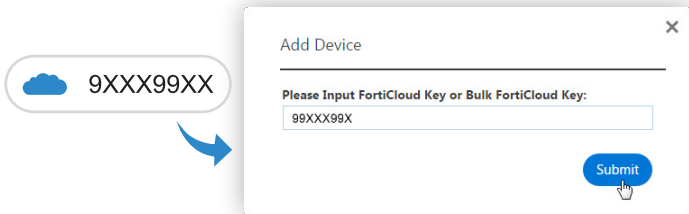


FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

## A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “Add Device” link, enter the **unique FortiCloud key** located on your FortiAP device, then click **Submit**.



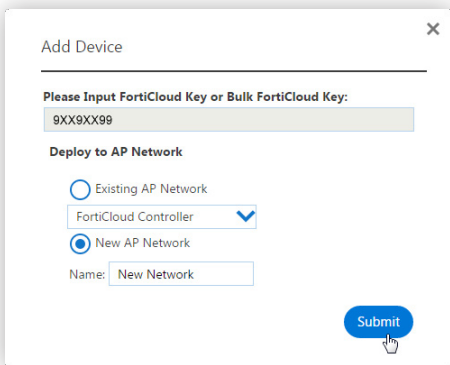
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XX99XX

Submit

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



Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XX99XX

Deploy to AP Network

Existing AP Network

FortiCloud Controller

New AP Network

Name: New Network

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. The FortiAP will self-configure.

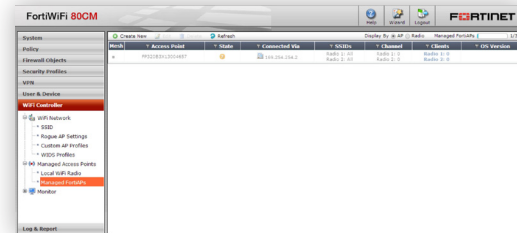
## B Deployment through a FortiGate

If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the “[Access Point Deployment](#)” section of the [Deploying Wireless Networks Guide](http://docs.fortinet.com) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local **Ethernet**.
2. Within **two minutes** of connecting the FortiAP to your FortiGate, the device will appear on the **Managed FortiAP** page in the **Web-based Manager**: authorize and assign a profile to the device.

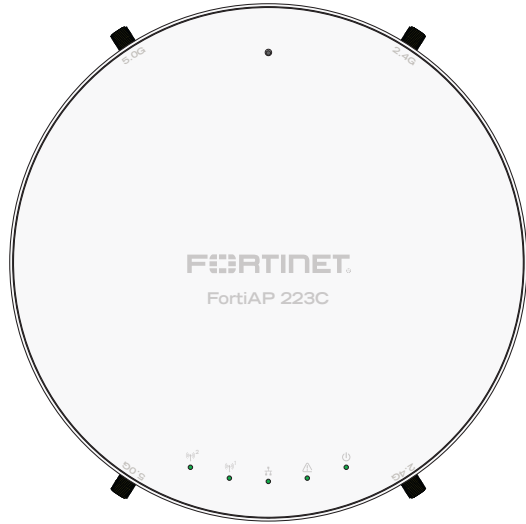


If your FortiGate is not on the same network as your FortiAP:

1. [Log in](#) to the FortiAP directly (IP address: **192.168.1.2**) with username **admin** and **no password**, and specify the **IP address** of the controlling FortiGate.
2. Connect to the FortiAP via the **CLI** using the instructions in the “[Connecting to FortiAP CLI](#)” section of the [Deploying Wireless Networks guide](#).
3. Specify the **IP address** of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
cfg -c
```

where **0.0.0.0** is the address of the FortiGate.
4. The FortiAP will connect to the FortiGate, and then you can **authorize** the FortiAP.

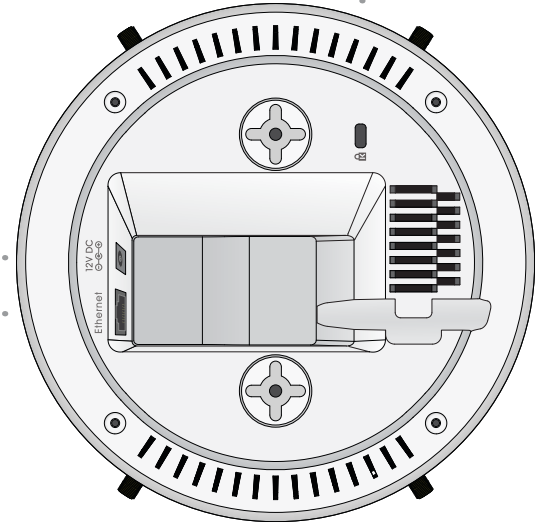


- Ethernet Port**
- **Green:** Connected at 1Gbps
  - ⊙ **Flashing Green:** Transmitting & receiving data at 1Gbps
  - **Amber:** Connected at 10/100Mbps
  - ⊙ **Flashing Amber:** Transmitting & receiving data at 10/100Mbps
  - **Off:** No link established
- Power**
- **Green:** The unit is on
  - ⊙ **Flashing Green:** Booting up
  - **Off:** The unit is off
- Wireless Radios**
- **Green:** Wireless radio enabled
  - ⊙ **Flashing Green:** Transmitting & receiving data
  - **Off:** Wireless radio disabled
- Status**
- **Green:** The unit is being managed by a FortiGate controller
  - **Amber:** A FortiGate controller has been found but the unit is not being managed
  - ⊙ **Flashing Amber:** Error in connecting to the FortiGate controller
  - **Off:** FortiGate controller not found

**Kensington Security Slot**  
Anti-theft security slot for connecting lock-and-cable apparatus

**Power**  
Optional power adapter connection  
12V DC, 1.25A

**Ethernet Port (RJ-45)**  
Gigabit Ethernet port with PoE powered device (PD) support



**Wireless Radios**  
Radio 1: 802.11 b/g/n at 300Mbps  
Radio 2: 802.11 a/n/ac at 867Mbps

## Cautions and Warnings

### Environmental Specifications

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

**Caution:** This equipment is to be used in a Network Environment 0 per IECTR 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 IECTR 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, 2 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

## Regulatory Compliance

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.

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

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

### Industry Canada (IC RSS) – Canada

This device complies with Industry Canada licence-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'Industrie Canada 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.

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

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 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. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

**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. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

This device has been designed to operate with an antenna having a maximum gain of 3 dBi for 2.4GHz and 3 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

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

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 3 dBi pour 2,4 GHz et 3 dBi pour 5GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique 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.



## Professional installation instruction

1. Installation personnel  
This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.
2. Installation location  
The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to both indoor and outdoor location.
3. External antenna(s)  
Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/IC limit and is prohibited.
4. Warning  
Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

## Instrctions d'installation professionnelle

1. Installation  
Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.
2. Emplacement d'installation  
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 20cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.
3. Antenne externe(s)  
Utiliser uniquement l'antenne (s) 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. 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.



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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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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