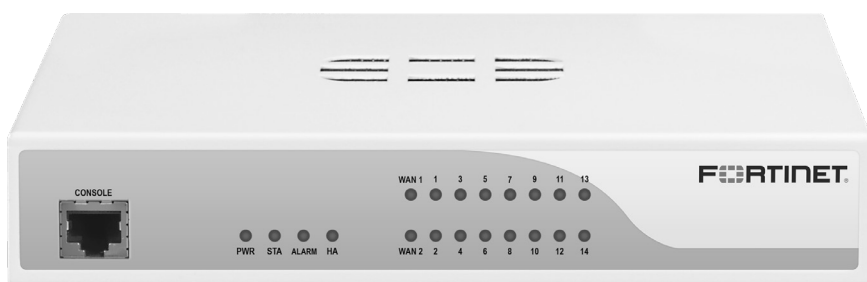


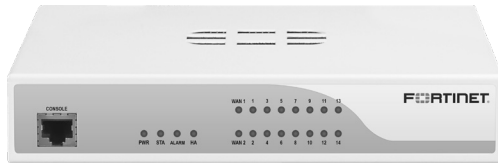
FORTINET®



FortiGate/FortiWiFi 70D/90D-POE

Information

Box Includes



FortiGate/FortiWiFi 70D/90D-POE



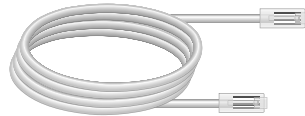
Information Supplement



The FortiGate QuickStart Guide



Power Cable



Ethernet Cable



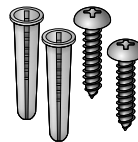
Power Adapter
(Ground lug on PoE models only)



USB Cable



2 Wireless Antennae
(Wireless models only)



Wall Mount Hardware

FortiGate 70D/90D

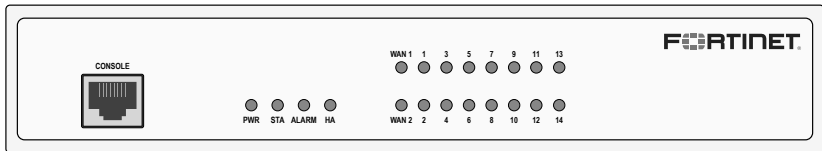
Console (RJ-45)

Optional connection to the management computer

Provides access to the CLI

Ethernet Ports

- 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



PWR

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

STA

- Green: Normal
- ☀ Flashing Green: Booting up

ALARM

- Red: The unit has a major alarm
- Amber: The unit has a minor alarm
- Off: The unit is operating normally

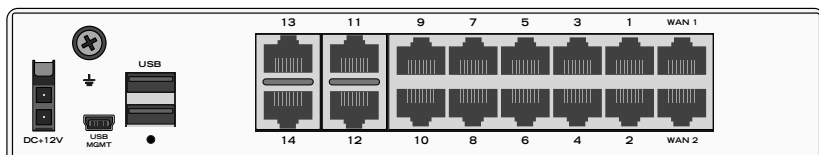
HA

- Green: Operating in an HA cluster
- Off: Not in an HA cluster

USB (USB A) 
USB server ports



WAN Ports 1 & 2 (RJ-45)
Gigabit Ethernet Internet connections



Ethernet Ports 1 - 14 (RJ-45)
Gigabit Ethernet network connections

USB MGMT (USB mini-B) 
USB client port

Power

12V DC, 2.5A

100-240V AC, 50-60Hz adapter

FortiGate 70D/90D-POE

Ethernet Ports

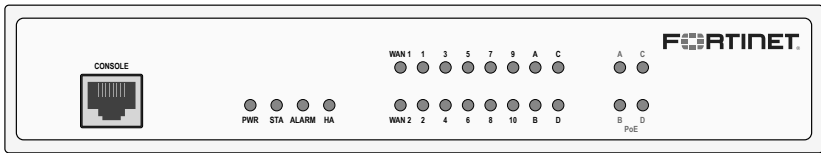
- Green: Connected at 1Gbps
- ⦿ Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- ⦿ Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

Console (RJ-45)

Optional connection to the management computer
Provides access to the CLI

PoE

- Green: Power delivered
- ⦿ Flashing Green: Error
- Off: No power delivered



PWR

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

STA

- Green: Normal
- ⦿ Flashing Green: Booting up

ALARM

- Red: The unit has a major alarm
- Amber: The unit has a minor alarm
- Off: The unit is operating normally

HA

- Green: Operating in an HA cluster
- Off: Not in an HA cluster

PoE Ports A - D (RJ-45)

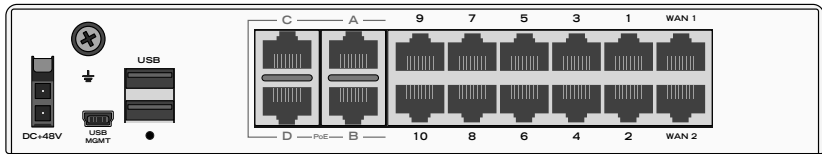
Gigabit Ethernet ports with 802.3af Power over Ethernet (PoE) providing up to a maximum of 61.6W for all ports

USB (USB A) 
USB server ports



WAN Ports 1 & 2 (RJ-45)

Gigabit Ethernet Internet connections



Ethernet Ports 1 - 10 (RJ-45)

Gigabit Ethernet network connections

USB MGMT (USB mini-B) 
USB client port

Power

48V DC, 2.5A

100-240V AC, 50-60Hz adapter

Attention: Ground lug must be connected to ground screw

FortiWiFi 90D

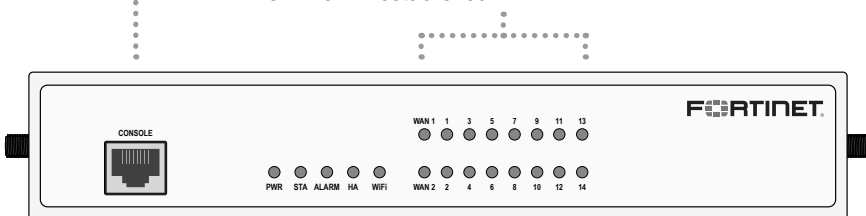
Console (RJ-45)

Optional connection to the management computer

Provides access to the CLI

Ethernet Ports

- 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



PWR

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

STA

- Green: Normal
- ☀ Flashing Green: Booting up

ALARM

- Red: The unit has a major alarm
- Amber: The unit has a minor alarm
- Off: The unit is operating normally

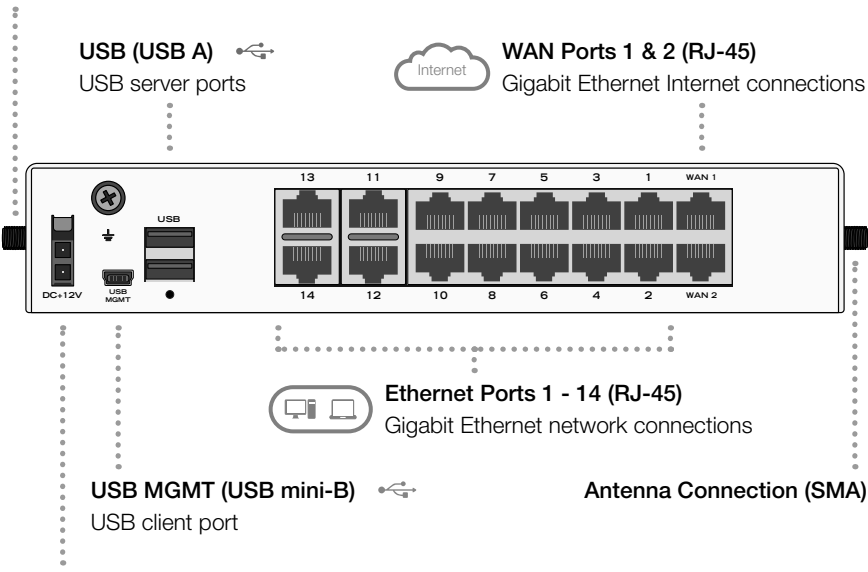
HA

- Green: Operating in an HA cluster
- Off: Not in an HA cluster

WiFi

- Green: Connected
- Off: Not connected

Antenna Connection (SMA)



Power

- 12V DC, 2.5A
- 100-240V AC, 50-60Hz adapter

FortiWiFi 90D-POE

Ethernet Ports

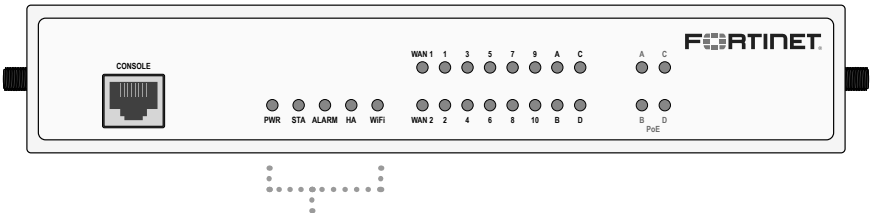
- Green: Connected at 1Gbps
- ⦿ Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- ⦿ Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

Console (RJ-45)

Optional connection to the management computer
Provides access to the CLI

PoE

- Green: Power delivered
- ⦿ Flashing Green: Error
- Off: No power delivered



PWR

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

STA

- Green: Normal
- ⦿ Flashing Green: Booting up

ALARM

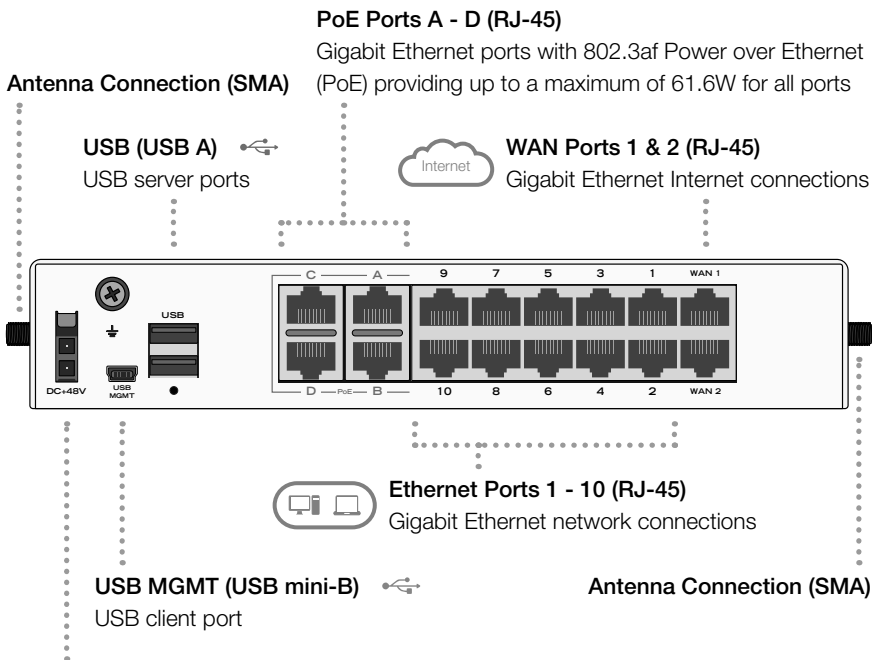
- Red: The unit has a major alarm
- Amber: The unit has a minor alarm
- Off: The unit is operating normally

HA

- Green: Operating in an HA cluster
- Off: Not in an HA cluster

WiFi

- Green: Connected
- Off: Not connected



Power

48V DC, 2.5A

100-240V AC, 50-60Hz adapter

Attention: Ground lug must be connected to ground screw

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0C to 40C

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 0 per IEC/ET 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/ET 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

Regulatory Compliance

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.

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user.

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.

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.

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. 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 2 dBi for 2.4GHz and 3 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 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 2 dBi pour 2,4 GHz et 3 pour 5GHz. Une antenne ayant un gain supérieur sont 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'émission 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 (7280B-0120201) 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 (7280B-0120201) 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 fonctionner en association avec une autre antenne ou transmetteur.

Antenna Type	Connector	Gain (dBi)	
		2.4GHz	5GHz
Dipole	RSMA	2	3

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/ISED 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.

Instructions 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/ISED, 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.



The product transmits within the frequency ranges and less than or equal to the power listed below:
2412-2472MHz less than 19dBm
5180-5240MHz less than 21dBm

Voluntary Control Council for Interference (VCCI) – Japan

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Product Safety Electrical Appliance & Material (PSE) – Japan

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

Agência Nacional de Telecomunicações (ANATEL) – Brazil

FG-90D:



FWF-90D:



FG-90D-POE:



Para maiores consultas sobre ANATEL consulte o site: www.anatel.gov.br

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Korea Certification (KC) – Korea

FGFWF-90D, FG-90D-POE, FG-70D-POE:

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National Telecommunications Commission (NCC) – Taiwan

FWF-90D:

NCC警語
根據NCC低功率電波輻射性電機管理辦法規定：
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第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
在5.25~5.35赫茲頻帶內操作之無線資訊傳輸設備，限於室內使用。
電磁波曝露量MPE標準值1mW/cm²，送測產品實測值為：0.25116mW/cm²。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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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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