



FortiVoice Systems

FVC-40D2 • FVC-70D4 • FVC-100D8 • FVC-180D8
FVC-100DT • FVC-180DT • FVC-300DT



February 3, 2015

Revision 2

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Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit

La reistruzione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalità

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto

登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息

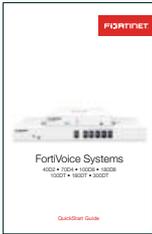
fortivoice.com/support

Toll free: United States and Canada 1 866 648 4638

Other countries: +1 408 486 7899

Box Includes

In addition to your [FortiVoice phone system](#), your box includes:



QuickStart Guide



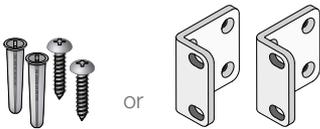
Ethernet Cable



Power Cable



Power Adapter
(for desktop model)

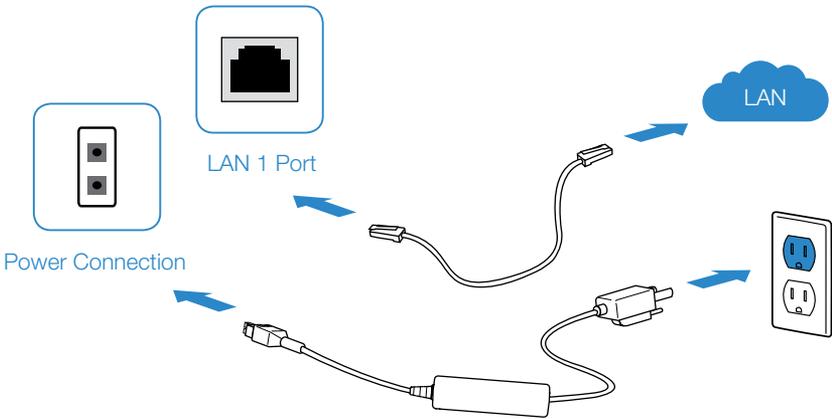


Wall Mount or Rack Mount Hardware



PCB Ground Cable

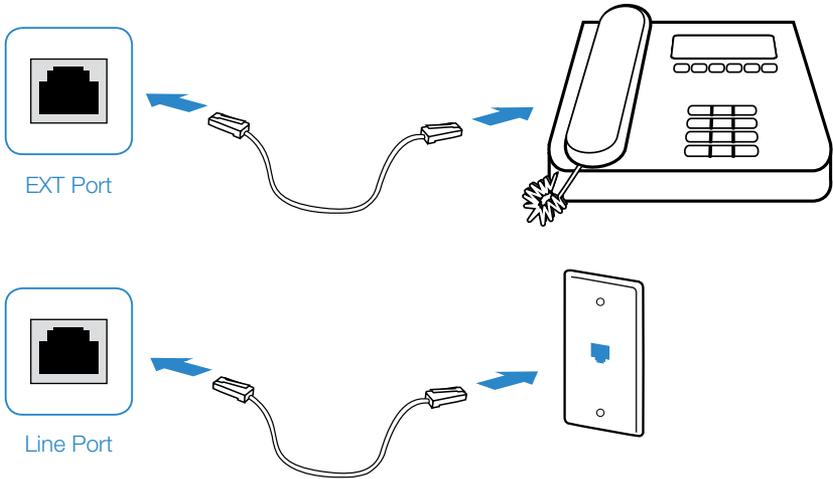
1 Basic Connections



Connect your device to a [power outlet](#) and an [network connection](#). This is usually a router, but could also be another device on your network.

Warning: For safe operation, connect a [ground cable](#) from the [screw post](#) on the back of the [phone system](#) to the [face plate screw](#) of an [electrical outlet](#).

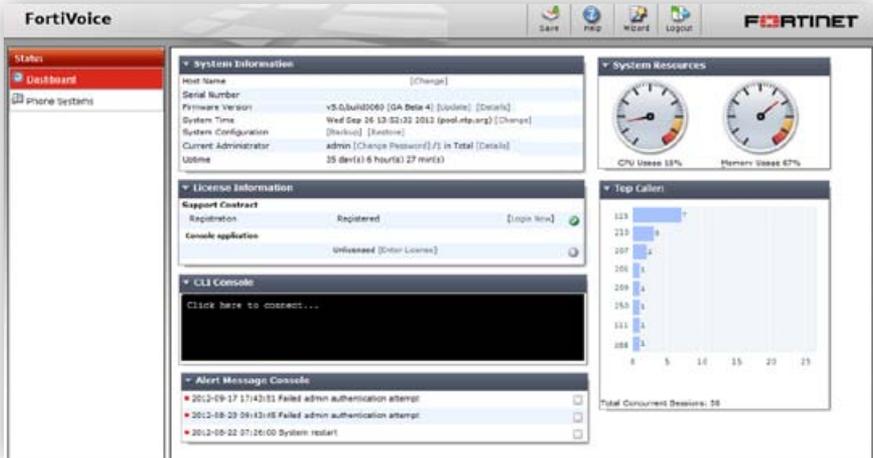
2 FortiVoice Setup



Connecting Devices and Lines (optional)

1. Connect your [analog devices](#) to the [EXT ports](#).
2. Connect your [telephone lines](#) to the [Line ports](#).

3 Configuring FortiVoice



You can configure the [FortiVoice system](#) on a computer on the same network or by connecting a computer directly to the [LAN 2](#) port.

1. Open a [web browser](#). Enter the IP address of your [FortiVoice system](#) or, if connected to [LAN 2](#), enter [192.168.10.1](#).

You can obtain the IP address from your DHCP server or gateway. You can also dial [*56](#) on an analog phone connected to one of the analog extensions to hear the IP address.

2. Log in using your credentials. The default credentials are username [“admin”](#) and leave the password [blank](#).

Refer to the [FortiVoice Admin Guide](#) for information about configuring your lines, extensions, modes and auto attendants.

Indicators

LAN indicators

- **Green:** Connected at 1Gbps
- ☀ **Flashing green:** Transmitting and receiving data at 1 Gbps
- **Amber:** Connected at 10/100 Mbps
- ☀ **Flashing amber:** Transmitting and receiving data at 10/100 Mbps
- **Off:** No link established

Status indicators

- ☀ **Flashing green:** Booting up
- **Green:** Normal

Power indicator

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

Alarm indicator

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

Ports

Line Ports (RJ-12)



Ports for connecting telephone lines

Extension Ports (RJ-12)



Ports for connecting analog devices

LAN Ports (RJ-45)



Gigabit Ethernet network connections



PRI Port (RJ-48)



Optional port for connecting PRI

Power Connection



or



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

Ground



Connect the ground to the faceplate screw of an electrical outlet using



a ground cable

USB Management Port (USB mini-B)



USB client port for technical support use only

Licenses & Subscriptions

Get the latest product security updates and features. Stay with us and see the product evolve.

Firmware Updates

FortiCare is your ticket to telephone and web-based support from our dedicated voice support team.

Technical Assistance



FortiCare is global 24/7 support for
your Fortinet hardware and software

With FortiCare, Fortinet will ship you an advanced exchange replacement unit in the event of a hardware issue to help reduce downtime.*

Hardware Replacement

*May not be available in all regions

Related Products

Security Hub

FortiGate

Wired Networking

FortiSwitch





WiFi

FortiAP

3G/4G Link

FortiExtender

Telephones

FortiFone



About Fortinet

Corporate Overview

Forward Looking Market Leadership

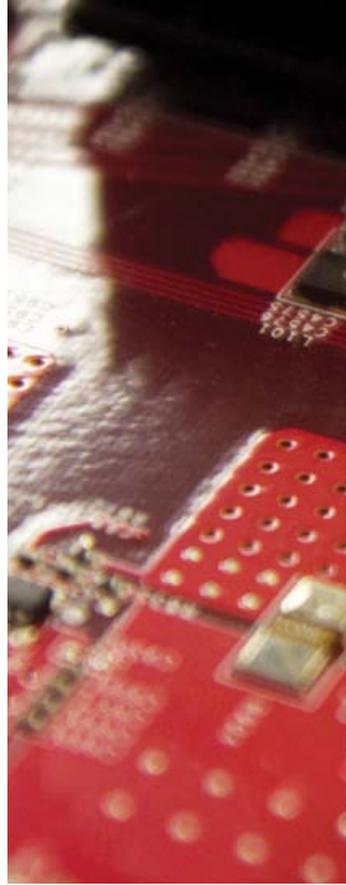
Fortinet pioneered an innovative, high performance network security solution. We address the fundamental problems of an increasingly bandwidth-intensive network environment and a more sophisticated IT threat landscape. We are a leading provider of network security appliances and the leader in Unified Threat Management, or UTM solutions.

Fortinet is a worldwide leading provider of UTM appliances, with a 16% year over year growth in the UTM security appliance market according to IDC Q3 2013.



A photograph of a modern glass skyscraper with the Fortinet logo mounted on its upper edge. The logo consists of the word "FORTINET" in white, bold, sans-serif capital letters. The letter "O" is replaced by a red square containing a white grid pattern. The building's glass facade reflects the sky and surrounding structures. A solid blue square is located in the top right corner of the image.

FORTINET



Most Certified in the Industry

Fortinet is the only network security vendor to earn independent certifications across all core security technologies.

Fortinet demonstrates our ability to consolidate multiple security technologies while still meeting the highest standards of performance and accuracy.





FortiASIC

Specialized Chip Design delivers more processing power.

Fortinet's purpose-built architecture delivers extremely high throughput and exceptionally low latency and the world's fastest firewall. Computationally intensive security tasks demand ASIC acceleration. Sub 10 μ s latency beats the competition.

Cautions and Warnings

Environmental specifications

Rack Mount Instructions — The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack — Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient — If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

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

Reduced Air Flow — Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

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

Mechanical Loading — Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Chargement Mécanique — Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

Circuit Overloading — Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

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

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

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

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.

Disconnect TNV circuit connector before removing cover.

Débranchez le câble du circuit TRT avant d'enlever le couvercle.

IMPORTANT SAFETY INSTRUCTIONS — When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

CONSIGNES DE SÉCURITÉ IMPORTANTES — Lorsque vous utilisez votre équipement téléphonique, des précautions de sécurité de base doivent toujours être suivies pour réduire le risque d'incendie, de choc électrique et de blessures corporelles, y compris ce qui suit:

- Do not use this product near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Ne pas utiliser ce produit près de l'eau, par exemple, près d'une baignoire, d'un lavabo, d'un évier de cuisine ou cuve à lessive, dans un sous-sol humide ou près d'une piscine.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Évitez d'utiliser un téléphone (autre qu'un téléphone sans fil) pendant un orage. Il peut y avoir un risque de choc électrique par la foudre.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Ne pas utiliser le téléphone pour rapporter une fuite de gaz à proximité de la fuite.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Utilisez uniquement le cordon d'alimentation et les piles indiquées dans ce manuel. Ne jetez pas les batteries au feu. Ils peuvent exploser. Vérifiez les codes locaux pour connaître les instructions spéciales d'élimination.

SAVE THESE INSTRUCTIONS

CONSERVER CES INSTRUCTIONS

CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

ATTENTION: Pour réduire le risque d'incendie, utilisez uniquement 26 AWG ou supérieur (par exemple, 24 AWG) lister UL ou cordon télécommunications de ligne certifié CSA.

CAUTION: The interconnecting cables between the development kit and the LCD touch screen monitor are required to be rated min. 60°C, min. 30 VDC , marked VW-1 or FT-1. The length of the cable should not exceed 3,05 m.

ATTENTION: Les câbles d'interconnexion entre le kit de développement et le moniteur à écran tactile LCD doivent être classés min. 60°C, min. 30 VDC, marqué VW-1 ou FT-1. La longueur du câble ne doit pas dépasser 3,05 m.

Telecommunication equipment connected to FXS port should be UL Listed and the connection shall be made in accordance with Article 800 of the NEC.

L'appareil de télécommunication connecté au port FXS doit être UL Listed et la connexion devrait être réalisée en accordance avec l'article 800 de NEC.

Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.

Avertissement: Intégrez à l'installation électrique du bâtiment un dispositif de coupure de l'alimentation facile d'accès.

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

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 an 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 matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre/parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et/ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit a une borne de mise à la terre séparé sur le dos de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 14 AWG et la connexion doit être installé par un personnel qualifié.

Regulatory Notices

Federal Communication Commission (FCC) — USA

For Class A products:

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Class B products:

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 ACTA TIA/EIA/IS-968-B-1 and Part 68 of the FCC rules and the requirements adopted by the ACTA. On the base of this equipment is a label that contains, among other information, a product identifier in the format US: AAAEQ#TXXXX. If requested, this number must be provided to the telephone company.

This equipment uses the following USOC jack: RJ11C.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total REN, contact the local telephone company. The REN for this product is separately shown on the label and also part of the product identifier that has the format US: AAAEQ##TXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required until the problem is resolved. But if advance notice is not practical, you will be notified by the telephone company as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe it is necessary. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

If you experience trouble with this equipment, or repair or warranty information, please contact the following address and phone number for information:

Fortinet Inc.
899 Kifer Road, Sunnyvale, CA 94086 USA
1-866-648-4638 (Toll free US and Canada)
1-408-486-7899 (Other countries)

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

This equipment may not be used on coin service provided by the telephone company. Connection to party line service is subject to state tariffs.

This equipment is hearing aid compatible.

Industry Canada Equipment Standard for Digital Equipment (ICES) — Canada

For Class A products:

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

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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

For Class B products:

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

NOTICE: This product meets the applicable Industry Canada terminal technical specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not guarantee the equipment will operate to the user's satisfaction.

AVIS: Ce produit est conforme aux spécifications techniques terminales applicables d'Industrie Canada. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique quelles spécifications techniques d'Industrie Canada ont été respectées. Il ne garantit pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 5. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

AVIS: L'indice d'équivalence de la sonnerie (IES) du présent matériel est de 5. L'IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être reliés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

European Conformity (CE) — EU

For Class A products:

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

For Class B products:

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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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.

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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