

Wireless Lan Manager

FortiWLM<sup>™</sup> 100D

QuickStart Guide



# Table of contents

| Package contents             | . 1 |
|------------------------------|-----|
| Connecting to FortiWLM       | . 2 |
| Shutting down                | . 4 |
| Registering your product     | . 5 |
| Ports & LEDs                 | . 6 |
| Environmental specifications | . 7 |
| Compliance                   | . 8 |
| License agreement & warranty | . 9 |

# Package contents

### The box should contain:

FortiWLM 100D appliance

FortiWLM 100D QuickStart Guide

Power cable

Ethernet cable

Console cable

- 4 Rubber feet
- 2 Rack-mount brackets
- 6 Bracket screws



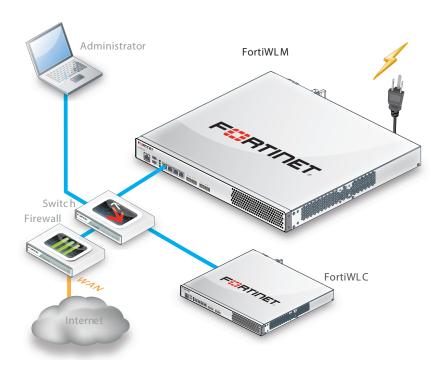


# Connecting to FortiWLM

FortiWLM appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiWLM appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiWLM 100D occupies 1U (1.77 inches/4.45 cm).

You can configure FortiWLM for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiWLM only to your computer until you finish setup. (If you place FortiWLM in your network before FortiWLM is set up, traffic could be interrupted until setup is complete.) Deployment instructions are in the Network Manager User Guide. One typical, basic network topology is shown below.



To connect to the CLI via serial console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

- 1. Using the console cable, connect the appliance's console port to your terminal server or computer.
- 2. On your computer or terminal server, start the terminal emulator. Use these settings:

• Baud rate: 115200

• Data bits: 8

• Parity: None

• Stop bits: 1

Flow control:None

3. Press Enter on your keyboard to connect to the CLI.

# Installing FortiWLM

The Software is pre-installed on the flash drive of the FortiWLM before it is shipped. The FortiWLM hardware must be installed on the network by following these steps:

- 1. If you are rack mounting the unit, attach the ears and then install the unit in a rack and ensure that you Ground yourself.
- 2. Connect the (FortiWLM-100D) power cable to the FortiWLM and plug them into outlets. The power light should go on.
- 3. Connect the Ethernet cable from the Ethernet port on the FortiWLM to a switch or router. The FortiWLMs consists of four Ethernet ports; ETH1, ETH2, ETH3, and ETH4. Use the left most ETH1 Ethernet port.
- 4. Using the provided console cable, connect a PC (with terminal emulation software) to the FortiWLM.
- 5. From the PC terminal emulation program (Hyperterminal, Minicom, etc.), set the software configuration as follows:

• Baud rate: 115200

• Data Bits: 8

Parity: NoneStop Bits: 1

Flow Control: None

- 6. Turn on the FortiWLM power. Watch the boot sequence on the PC. When the login prompt appears, you are connected.
- 7. Log on with the default name and password:
  - admin
  - admin
- 8. Run the setup command through the command line interface. The setup command lists the following parameters of the FortiWLM to be configured:

host name

admin password

guest password

To configure networking, select the option yes to modify the network settings.

- 10. Select the option yes to configure the DHCP Addressing and option no to configure the Static Addressing. The following parameters of the FortiWLM must be configured for static addressing:
  - IP address
  - netmask
  - default gateway (IP)
  - DNS server
  - DNS domain
  - Time zone settings
- 11. Synchronize the time with the NTP (Network Time Protocol) server.
- 12. When asked if you want to commit the settings and reboot, answer yes. The system is rebooted.
- 13. See the IP address using the show nms command.

Setup is now complete.

# Shutting down



Always properly shut down the FortiWLM appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiWLM appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the CLI

Should it become necessary to power off the server, use the poweroff nms-server CLI command. This command gracefully brings the server down to a state where the power can be unplugged.

# Registering your product

### Register

You must register the product with Fortinet in order to receive:

Technical support • Software updates

### Enregistrer

Vous devez enregistrer le produit pour recevoir:

• Support technique • Mises-à-jour logiciel

### Registra

La registrazione vi permette di usufruire di:

Supporto tecnico • Aggiornamenti software

## Registrar

Debe registrar el producto para recibir:

· Apoyo técnico · Actualizaciones del software

## 登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

• テクニカルサポート・ソフトウェアのアップデート

# 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, 软件升级

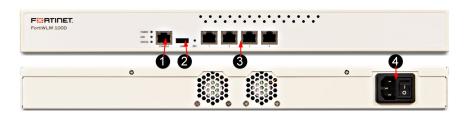
Web: https://support.fortinet.com/

Toll free: 1 866 648 4638 Phone: 1 408 486 7899 Fax: 1 408 235 7737

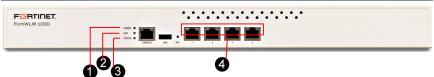
Email: register@fortinet.com



# Ports & LEDs



| # | Interface               | Туре  | Protocol            | Description  |
|---|-------------------------|-------|---------------------|--|
| 1 | Console                 | RJ-45 | RS-232<br>serial    | Connection to the management computer. 115200 bps access to the CLI. |
| 2 | USB Port 1              | USB-A | USB 2.0             | -  |
| 3 | Ethernet<br>Ports 1 - 4 | RJ-45 | Gigabit<br>Ethernet | Connections to your network & the Internet.                          |
| 4 | Power                   |       |                     | 100 - 240 V AC<br>60 - 50 Hz<br>1.5 A                                |



| # | LED                        | State    | Description                            |
|---|----------------------------|----------|--|
| 1 | Power (Bottom)             | Green    | The appliance is receiving power.      |
| 2 | Hard Drive (Top)           | Amber    | Read or write activity.                |
| _ | Status (Middle)            | Off      | System is normal.                      |
| 2 |                            | Red      | System failure.                        |
|   | Network Activity<br>(Left) | Green    | Link detected.                         |
|   |                            | Flashing | Port is transmitting & receiving data. |
|   |                            | Off      | Link not detected. (Cable may be       |
| 4 |                            |          | disconnected/damaged.)                 |
|   | Network Speed<br>(Right)   | Green    | 1 Gbps link.                           |
|   |                            | Amber    | 100 Mbps link.                         |
|   |                            | Off      | 10 Mbps link.                          |

# 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 (Tma) 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 (Tma) 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).

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.

#### **藝**生

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: Disconnect power supply cords before servicing.

Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

# Regulatory notices

### Federal Communication Commission (FCC) – USA

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

- This device may not cause harmful interference, and
- 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.

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

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 Regula¬tions 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 édicte par le ministère des Communications du Canada.

### European Conformity (CE) – EU

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.



#### Japan

Voluntary Control Council for Interference (VCCI)

この装置は、クラスA情報技術装置です。この装置を 家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

Product Safety Electrical Appliance & Material (PSE)

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。

### Taiwan

# Bureau of Standards Metrology and Inspection (BSMI)

這是甲類的資訊產品,在居住的環境中使用時,可能會造成射頻干擾,在這種情況下,使用 者會被要求採取某些適當的對策。

### China

此为A级产品,在生活环境中,该产品可能会造成无线电干扰。这种情况下,可能需要用户 对其采取切实可行的措施。

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Product(s) as provided for in this Agreement. Further, if you are a non-authorized reseller of Products, you are not authorized to sell Product(s) or Software, but, regardless, by selling Product(s) or Software, you here by agree you are bound by the restrictions and obligations here in and are bound in full by all restrictions and obligations here in (ii) enforce the restrictions and obligations in this Agreement against such customer and/or end user, (iii) comply with all applicable United States export control laws and regulations and all other applicable laws, and (iv) refundany fees paid to you by a customer and/or end user who purchased Product(s) from you but does not agree to the restrictions and obligations contained in this Agreement and the refore wishest or eturn the Product(s) as provided for in this Agreement. Not with standing anything to the contrary, distributors, resellers and other Fortine tpartners (a) are not agents of Fortine t and (b) are not authorized to bind Fortine t in any way.

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For time twarrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be a product of the product ofree from material defects in work man ship as compared to the functional specifications for the period set for that follows and approximately accompanied to the following set of the following setplicabletotheProducttype("HardwareWarrantyPeriod"):athreehundredsixty-five(365)daylimitedwarrantyfortheHardware excluding spareparts, power supplies, and accessories (provided, solely with respect to FortiAP indoor Wi-Fiaccess point HardwareapplianceproductsandFortiSwitchHardwareapplianceproductsotherthantheFortiSwitch-5000series(forbothexcluding spareparts, power supplies, and accessories), the warranty hereins hall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-lifedate), and, for spareparts, power supplies, and accessories, solely an inety (90) days limited warranty. For tinet's sole obligations hall be to repair or replace the defective Hardware at no extension of the defectcharge to the original owner. This obligation is exclusive of transport fees, labor or installation costs, and any other cost which are charged on the cost of tnot directly associated to the Product. Such repair or replacement will be rendered by Fortine tatana uthorized Fortine tservice.facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet to the facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet to the facility as determined by Fortinet and the facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet and the facility as determined by Fortinet and the facility as determined by Fortinet. 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If Fortinet determines in its reasonable discretion that a material defect is in capable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original defect is not provided by the origina(or part the reof) that is replaced by Fortinet, or for which the purchase price is refunded, shall be come the property of Fortinet.upon replacement or refund.

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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.

Whena"workthatuses 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 in functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally aderivative 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 copy right notices, you must include the copy right 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-readables our cecode 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 recomplete 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 a truntime 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 material stobe distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and soon) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the licenser estrictions 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 awork 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: a) Accompany the combined library with acopy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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#### 4th Edition

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