



User Guide

Linksys AE1000 | High Performance Wireless-N USB Adapter



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Chapter 1: Product Overview

Thank you for choosing the Linksys AE1000 High Performance Wireless-N USB Adapter. Using the latest wireless networking technology, the Adapter adds or upgrades wireless connectivity on your Windows-based desktop or laptop computer. To help protect your data and privacy, you can use Wi-Fi Protected Access 2 (WPA2) encryption to protect your wireless connection.

LED



 **Link (Blue)** The LED flashes when there is wireless network activity.

Storing the Cap

When the Adapter is plugged into the USB Extension Base or your computer's USB port, you can store the cap by attaching it to the Adapter.



To store the cap, push it onto the top of the Adapter until it fits snugly.

USB Extension Base

The Adapter comes attached to its USB Extension Base. Using the Adapter in its Base may often improve wireless signal performance, especially with desktop computers that may be located under desks or tabletops.

To use the USB Extension Base, make sure the Adapter is connected to the Base, and then connect the USB Extension Base to a USB port on your computer or laptop.



Chapter 2: Installation

This chapter describes the procedure for installing the Adapter.

Installation

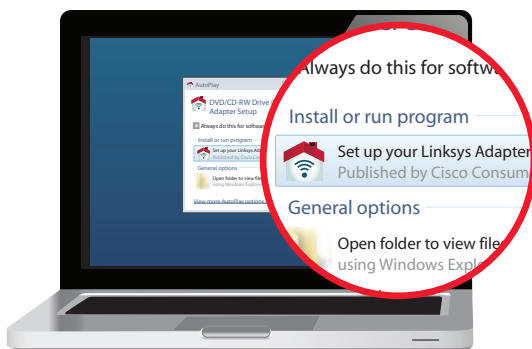
To install the Adapter:

1. Insert the CD into your CD-ROM drive.



Insert CD

2. Click **Set up your Linksys Adapter**.



Set up Your Linksys Adapter

If you do not see this, access setup on the CD directly. To do so, perform the following steps for your specific operating system:

Windows 7

- a. Go to **Start > Computer**.
- b. Double-click your CD-ROM drive.

Windows Vista

- a. Go to **Start > Computer**.
- b. Double-click your CD-ROM drive.

Windows XP

- a. Go to **Start > My Computer** and select your CD-ROM drive.
- b. Double-click **Setup.exe**.

3. Read the Software End User License Agreement. To accept the agreement and continue with the installation, click **Next**.



License Agreement

4. Insert the Adapter into an available USB port on your computer.



Install Linksys AE1000

5. An Easy Setup Key helps you quickly connect to your wireless hotspot or router. If you do not have an Easy Setup Key, select **No, I don't have an Easy Setup Key**. If you have an Easy Setup Key, select **Yes, I have an Easy Setup Key**. Click **Next**.



NOTE: Cisco Valet wireless hotspots come with an Easy Setup Key. Cisco Valet wireless hotspots and some Linksys routers also let you create one from your own USB flash drive. (You do not need an Easy Setup Key to complete installation.)



Do You Have an Easy Setup Key?

If you do not have an Easy Setup Key, go to step 6. If you have an Easy Setup Key, go to step 8.

6. A list of available wireless networks appears. Select your network. Click **Next**.



Connect to a Wireless Network

7. If your network does not use wireless security, go to step 9.

If your network uses wireless security, enter the wireless password for your type of security:

- Wired Equivalent Privacy (WEP): Enter the WEP key.
- Wi-Fi Protected Access (WPA/WPA2): Enter the passphrase (also known as a pre-shared key).

Click **Next**. Go to step 9.



Enter the Wireless Password

8. Follow the on-screen prompts to use your Easy Setup Key. Click **Next**.



Insert your Easy Setup Key

9. The installation is complete. Click **Close**.



You are Now Connected to Your Wireless Network



NOTE: If you have any problems during the installation process, refer to the Frequently Asked Questions in the setup software, or use a computer with an active Internet connection to visit www.linksys.com/support.

Chapter 3: Wireless Network Configuration


To configure the Adapter's wireless connection settings, use a wireless network configuration utility. If you have installed such a utility on your computer, or if your computer came with one already installed, refer to that utility's documentation for instructions on use. Otherwise, follow the instructions in the appropriate section below to use your operating system's built-in utility: **Windows 7, page 4**, **Windows Vista, page 5**, or **Windows XP, page 7**.

Windows 7

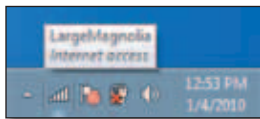
After you have installed the Adapter, the Wireless Network Configuration utility icon appears on your computer's system tray.



Wireless Network Configuration Utility Icon

(If you do not see the icon, click the *Show hidden icons* arrow  in the system tray.)

When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

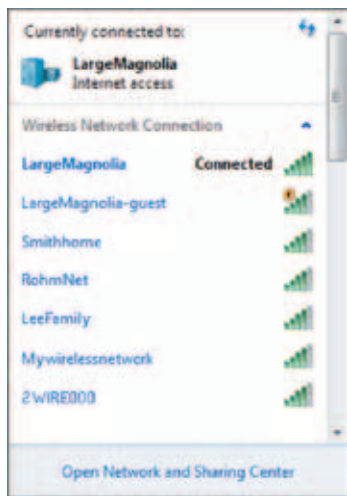


Wireless Connection Status

New Wireless Connection

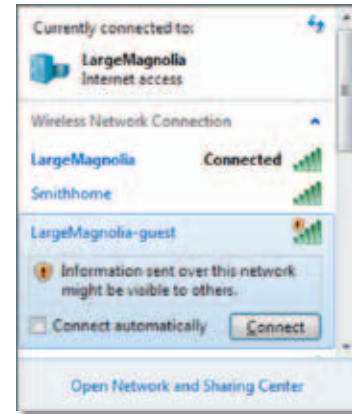
To connect to a different wireless network:

1. Click the Wireless Network Configuration utility icon. A list of available wireless networks appears.



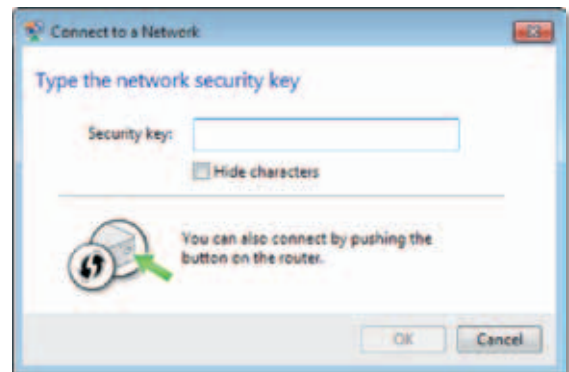
Available Wireless Networks

2. Select your network, and then click **Connect**.



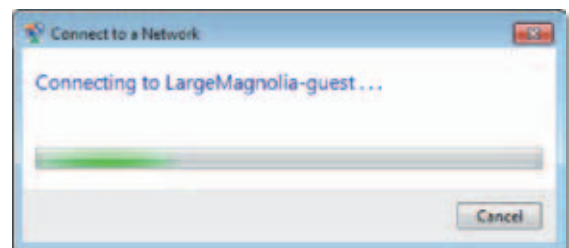
Select Network

3. If your network does not use wireless security, go to step 5.
4. Enter the security key, Wired Equivalent Privacy (WEP) key, or Wi-Fi Protected Access (WPA/WPA2) passphrase (also known as a pre-shared key), depending on your type of security. Click **OK**.




Secured Network

5. This screen appears while the Adapter connects to your network. Do not cancel, unless you want to end the connection.



Connecting to Network



NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start**  **> Help and Support**.

Your computer is now connected to your wireless network.

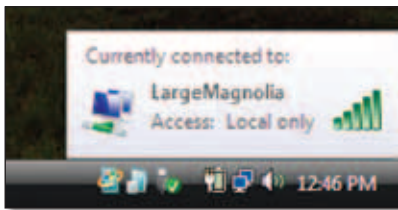
Windows Vista

After you have installed the Adapter, the Wireless Network Configuration utility icon appears on your computer's system tray.



Wireless Network Configuration Utility Icon

When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

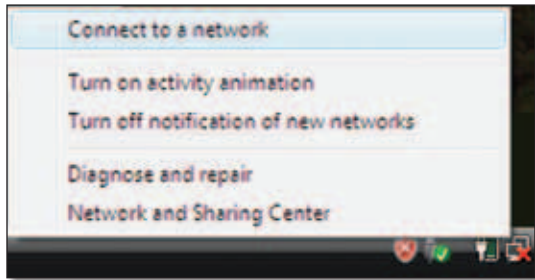


Wireless Connection Status

New Wireless Connection

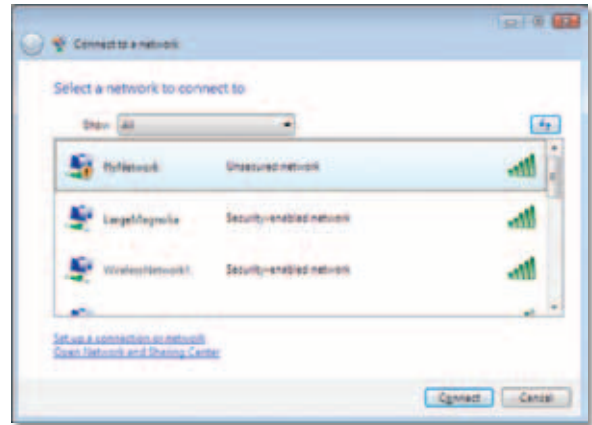
To connect to a different wireless network:

1. Right-click the Wireless Network Configuration utility icon.
2. Click **Connect to a network**.



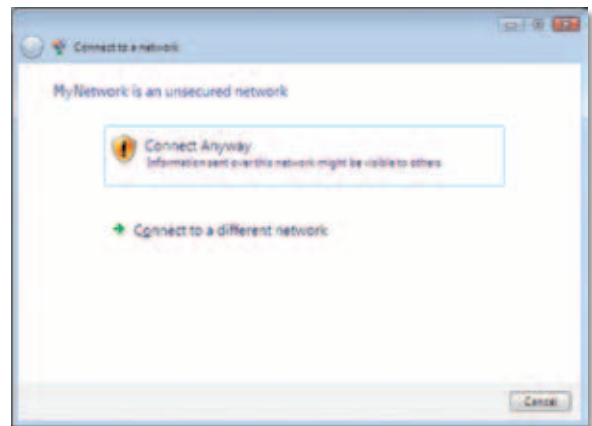
Utility Menu

3. Select your network, and then click **Connect**.



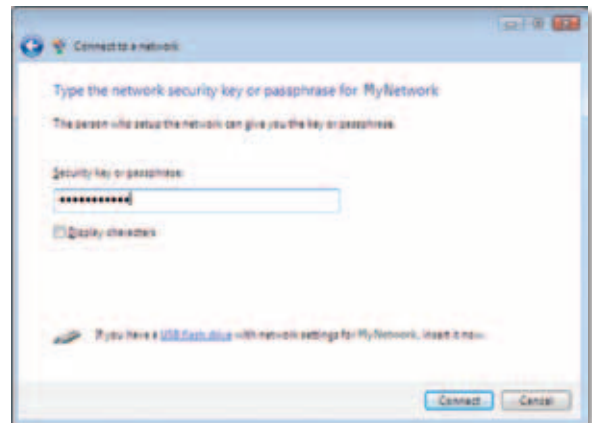
Select Network

4. If your network uses wireless security, go to step 5. If your network does not use wireless security, this screen appears. To connect to your unsecured network, click **Connect Anyway** and go to step 7.



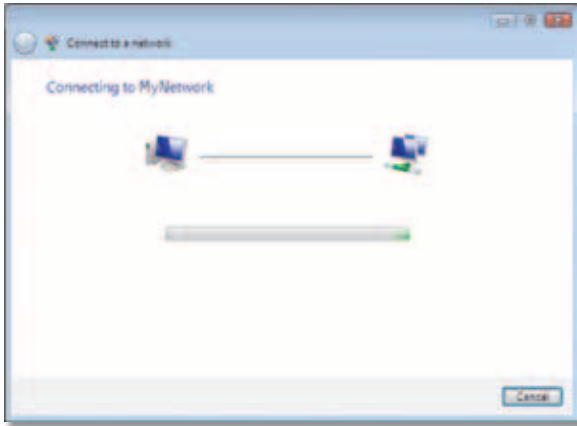
Unsecured Network

5. Enter the security key, Wired Equivalent Privacy (WEP) key, or Wi-Fi Protected Access (WPA/WPA2) passphrase (also known as a pre-shared key), depending on your type of security. Click **Connect**.



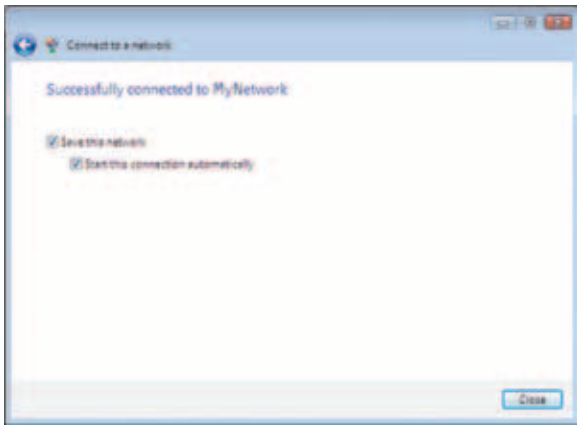
Secured Network

- 6. This screen appears while the Adapter connects to your network. Do not cancel, unless you want to end the installation.



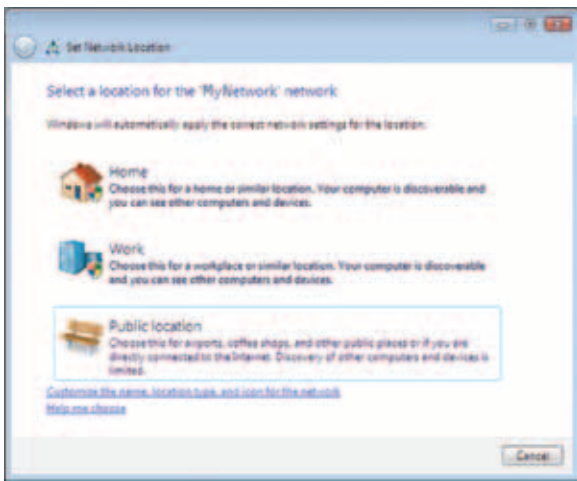
Connecting to Network

- 7. This screen appears when you are connected to your network. Select **Save this network**, if you want to save your settings. Click **Close**.



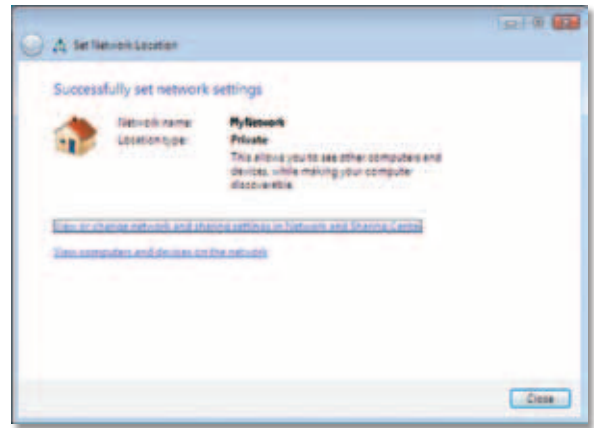
Connected to Network

- 8. The *Set Network Location* screen may appear. This screen helps apply the correct settings for your type of location. Select **Home**, **Work**, or **Public location**.




Select Network Location

- 9. This screen varies according to the selected location. Click **Close**.



Network Settings Saved



NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start**  **> Help and Support**.

Your computer is now connected to your wireless network.

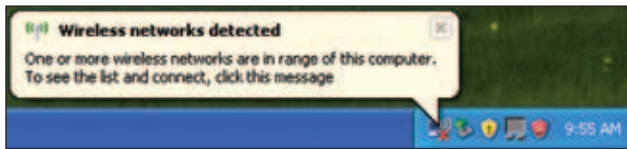
Windows XP

After you have installed the Adapter, the Windows XP Wireless Zero Configuration Utility icon appears on your computer's system tray.



Wireless Zero Configuration Utility Icon

When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

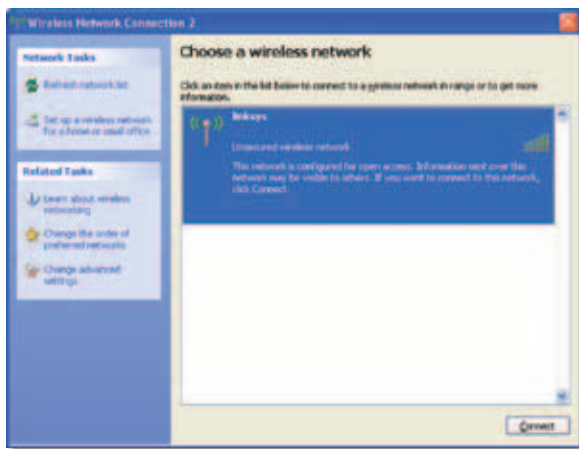


Wireless Connection Status

New Wireless Connection

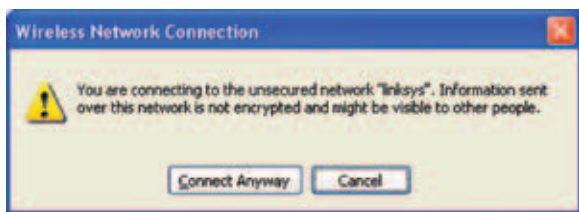
1. Right-click the Windows XP Wireless Zero Configuration icon in your computer's system tray, and then select **View Available Wireless Networks**.
2. A window displays the available wireless networks. Select the network that you want and click **Connect**.

If the network uses wireless security, go to step 4. Otherwise, continue to step 3.



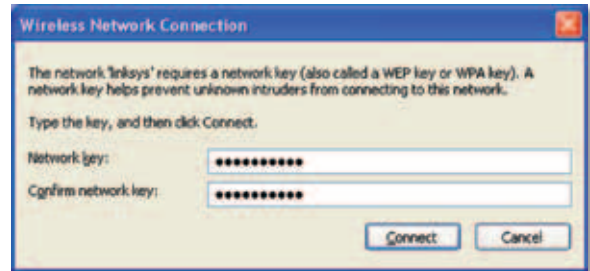
Available Wireless Network

3. Click **Connect Anyway** to connect the Adapter to your unsecured network, and then go to step 5.



No Wireless Security

4. If your network uses Wired Equivalent Privacy (WEP) wireless security, enter the WEP Key in the *Network key* and *Confirm network key* fields. If your network uses Wi-Fi Protected Access (WPA/WPA2) wireless security, enter the passphrase in the *Network key* and *Confirm network key* fields. Click **Connect**.



Wireless Security

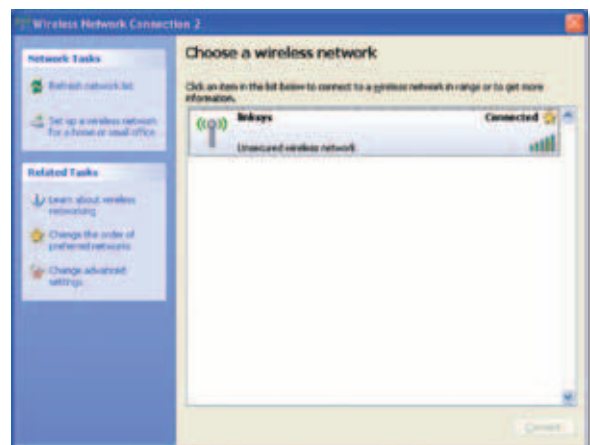


NOTE: Windows XP Wireless Zero Configuration does not support the use of a WEP passphrase. Enter the exact WEP key used by your wireless router or access point.



NOTE: If your network is using WPA2 security, make sure that you have installed the Update for Windows XP (KB893357), available at www.microsoft.com.

5. Your wireless network will appear as Connected when your connection is active.



Wireless Network Connection



NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start > Help and Support**. Enter **wireless** in the *Search* field, and then press **Enter**.

Your computer is now connected to your wireless network.

Appendix A: Troubleshooting

Your computer does not recognize the Adapter.

Make sure that the Adapter is properly inserted into your computer's USB slot and/or USB Extension Base.

The Adapter does not work properly.

Remove the Adapter, and then reinsert it into the computer's USB slot.

Your computer cannot communicate with the other computers on your wireless network.

1. Make sure that the computers are powered on.
2. Make sure that the Adapter is configured with the same Wireless Network Name (also called the SSID or Service Set Identifier) and wireless security settings as the other computers on your wireless network.



WEB: If your questions are not addressed here, refer to our AE1000 support section on the web, www.linksys.com/support/AE1000

Appendix B: Specifications

Model Name	Linksys AE1000
Description	High Performance Wireless-N USB Adapter
Model Number	AE1000
Standards	802.11a, 802.11b, 802.11g, 802.11n
LEDs	Link/Act
Number of Antennas	2 Internal Antennas
Transmitted Power	2.4 GHz @ 11 Mbps data rate: 18 dBm ± 1.5 dBm 2.4 GHz @ 54 Mbps data rate: 14 dBm ± 1.5 dBm 5 GHz @ 54Mbps data rate: 12 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS0, HT20/40): 18 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS8, HT20/40): 18 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS15, HT20/40): 12 dBm ± 1.5 dBm 5 GHz, 11N (MCS0, HT20/40): 16 dBm ± 1.5 dBm 5 GHz, 11N (MCS8, HT20/40): 16 dBm ± 1.5 dBm 5 GHz, 11N (MCS15, HT20/40): 10 dBm ± 1.5 dBm
Receive Sensitivity	-84 dBm @11 Mbps -70 dBm @54 Mbps -83 dBm @2.4 GHz/5 GHz, MCS0, HT20 -80 dBm @2.4 GHz/5 GHz, MCS0, HT40 -83 dBm @2.4 GHz/5 GHz, MCS8, HT20 -80 dBm @2.4 GHz/5 GHz, MCS8, HT40 -65 dBm @2.4 GHz/5 GHz, MCS15, HT20 -62 dBm @2.4 GHz/5 GHz, MCS15, HT40
Antenna Gain in dBi	802.11a: 5 GHz => 4 dBi 802.11g: 2.4 GHz => TX0: 0.5 dBi, TX1: 1.4 dBi
Power Consumption	TX (2.4 GHz): 330 mA, HT20; 340 mA HT40 at 5V TX (5 GHz): 400 mA, HT20; 430 mA HT40 at 5V RX (2.4 GHz): 140 mA, HT20; 160 mA HT40 at 5V RX (5 GHz): 150 mA, HT20; 180 mA HT40 at 5V Standby: 150 mA Radio Off: 20 mA

Security Features	WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise
Security Key Bits	Up to 128-Bit Encryption
OS Requirements	Up-to-date Windows XP, Windows Vista, Windows Vista 64-bit Edition, or Windows 7

Environmental

Dimensions	3.15" x 1.00" x 0.49" (79.9 x 25.4 x 12.4 mm)
Weight	0.39 oz (11 g)
Certification	FCC, CE, IC, UL, RoHS, WEEE, IDA, C-Tick, Wi-Fi A/B/G/N
Operating Temp.	32 to 104°F (0 to 40°C)
Storage Temp.	-4 to 158°F (-20 to 70°C)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Specifications are subject to change without notice.

Appendix C: Warranty Information

Limited Warranty

(U.S.A, Canada, Asia Pacific, Australia, New Zealand)

FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVINCE. THIS LIMITED WARRANTY IS GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COUNTRY IN WHICH THE PRODUCT PURCHASE TOOK PLACE.

This warranty is provided to you by Cisco Systems, Inc. or its subsidiary instead of Cisco Systems, Inc. ("Cisco"). Cisco warrants the hardware in this Cisco product against defects in materials and workmanship under normal use for the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- One (1) year for new product
- Ninety (90) days for refurbished product

Your exclusive remedy and Cisco's entire liability under this limited warranty will be for Cisco, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Cisco product, or (c) refund the actual purchase price of the product less any rebates and discounts, or (d) pay the cost of repair of the product. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and parts that are replaced become the property of Cisco.

Cisco additionally warrants that any media on which the software may be provided will be free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of original purchase. Your exclusive remedy and Cisco's entire liability under this limited warranty will be for Cisco, at its option, to (a) replace the software media, or (b) refund the purchase price of the software media.

Exclusions and Limitations

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Cisco, (c) the product damage was caused by use with non-Cisco products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Cisco, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the Product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Cisco does not charge a purchase price or license fee.

EXCEPT FOR THE LIMITED WARRANTY ON MEDIA SET FORTH ABOVE AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL SOFTWARE AND SERVICES PROVIDED BY CISCO WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. Without limiting the foregoing, Cisco does not warrant that the operation of the product, software or services will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Cisco does not warrant that the product, software or services, or any equipment, system or network on which the product, software or services are used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party's service for which this product's use or operation may require.

TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED.

TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO EVENT WILL CISCO BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, LOSS OF THE ABILITY TO USE ANY THIRD PARTY PRODUCTS, SOFTWARE OR SERVICES, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT, SOFTWARE OR ANY SERVICES PROVIDED IN RESPECT OF SUCH PRODUCT, SOFTWARE OR SERVICE, EVEN IF CISCO HAS BEEN ADVISED OF THE POSSIBILITY

OF SUCH DAMAGES. TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO EVENT WILL CISCO'S LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose.

If you live in and have purchased the product in Australia or New Zealand, the following two (2) paragraphs will apply in place of the preceding paragraph:

To the extent permitted by law, Cisco excludes liability for any lost data, revenue or profit, loss of the ability to use any third party products, software or services, and indirect or consequential loss, whether based in statute, common law (including negligence) or otherwise, arising out of or related to the use of or inability to use the product, software, or any services provided in respect of such product, software or service, even if Cisco has been advised of the possibility of such damages and Cisco limits its liability to an amount not exceeding the amount paid by you for the product.

Part V of the Trade Practices Act (1974) (C'th of Australia), corresponding consumer protection provisions of Australian State and Territory legislation and the Consumer Guarantees Act 1993 (New Zealand) (together, "Applicable Laws") imply terms and warranties which operate to protect certain Australian and New Zealand purchasers of goods and services in various circumstances. Nothing in this warranty excludes, restricts or modifies any condition, warranty, right or remedy implied or imposed by any Applicable Laws which cannot lawfully be excluded, restricted or modified.

No Cisco employee, agent or reseller is authorized to make any verbal or written modification, extension or addition to this warranty, and Cisco expressly disclaims any such change to this warranty. If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to www.myciscohome.com/support where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Cisco Technical Support (or, if you purchased your product from a service provider, contact the service provider) for instructions on how to obtain warranty service. The telephone number for Cisco Technical Support in your area can be found by clicking the "Contact Us" link on the home page of www.myciscohome.com. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials

Authorization (RMA) number. You are responsible for properly packaging and shipping your product at your cost and risk. You must include the RMA number and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be rejected. Do not include any other items with the product you are returning. Products returned for replacement must be returned to Cisco in the same country in which the original product was purchased. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Cisco's then-current rates.

Technical Support

This limited warranty is neither a service nor a support contract. Information about Cisco's current technical support offerings and policies (including any fees for support services) can be found at www.myciscohome.com/support.

Please direct all inquiries to: Cisco, 120 Theory, Irvine, CA 92617.

Appendix D: Regulatory Information

FCC Statement

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 a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 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.

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

This device complies with Part 15 of the 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.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instructions as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with USB slot, and this product could be used in typical laptop computer(s) with USB slot. Other applications like handheld PC or similar device have not

been verified and may not be in compliance with related RF exposure rule and such use shall be prohibited.

Safety Notices



WARNING: Do not use this product near water, for example, in a wet basement or near a swimming pool.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.



WARNING: This product contains lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.



WARNING: For use with a Listed Computer.

Industry Canada Statement

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.

This device complies with RSS-210 of the Industry Canada 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.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

1. Ce périphérique ne doit pas causer d'interférence et.
2. Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

IMPORTANT NOTE

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

REMARQUE IMPORTANTE

Exposition aux radiofréquences :

Ce matériel est conforme aux limites d'exposition aux radiofréquences établies pour un environnement non contrôlé. Pour assurer le maintien de cette conformité, l'utilisateur doit suivre les consignes d'utilisation décrites dans le présent manuel.

Wireless Disclaimer

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