

Instant Wireless® Series

Wireless-G Notebook Adapter



Use this Guide to install: WPC54G

Quick Installation
Guide

LINKSYS®

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FCC STATEMENT

The Wireless-G Notebook Adapter has been tested and complies with the specifications 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 according to 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 is found 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 or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

EC DECLARATION OF CONFORMITY (EUROPE)

Linksys Group declares that the Instant Wireless® Series products included in the Instant Wireless Series conform to the specifications listed below, following the provisions of the EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC:

ETS 301489-17, 301 489-1 General EMC requirements for Radio equipment.

EN 609 50 Safety

ETS 300-328-2 Technical requirements for Radio equipment.

Note: This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. For more details, contact Linksys Corporate Compliance.

Note: Combinations of power levels and antennas resulting in a radiated power level of above 100 mW are considered as not compliant with the above mentioned directive and are not allowed for use within the European community and countries that have adopted the European R&TTE directive 1999/5/EC and/or the CEPT recommendation Rec 70.03. For more details on legal combinations of power levels and antennas, contact Linksys Corporate Compliance.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyyppinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen.

Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B L'utilisation en extérieur est autorisée sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: Bande de fréquence restreinte: seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (<<http://www.art-telecom.fr>>) pour la procédure à suivre.

France F: Restricted frequency band: only channels 10, 11, 12, 13 (2457, 2462, 2467, and 2472 MHz respectively) may be used in France. License required for every indoor and outdoor installations. Please contact ART for procedure to follow.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Germany D: License required for outdoor installations. Check with reseller for procedure to follow

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.

Italy I: License required for indoor use. Use with outdoor installations not allowed.

the Netherlands NL License required for outdoor installations. Check with reseller for procedure to follow.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure

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For product support and registration, contact us at the addresses below:

Email: Europe	europa-support@linksys.com
Latin America	latam-soporte@linksys.com
Web	http://www.linksys.com/international

Package Contents

- One Wireless-G Notebook Adapter
- One Setup Wizard CD-ROM (with English-language User Guide included)
- One Multiple-language Quick Installation Guide

Before You Begin

Installation of the WPC54G is different for different versions of Windows.

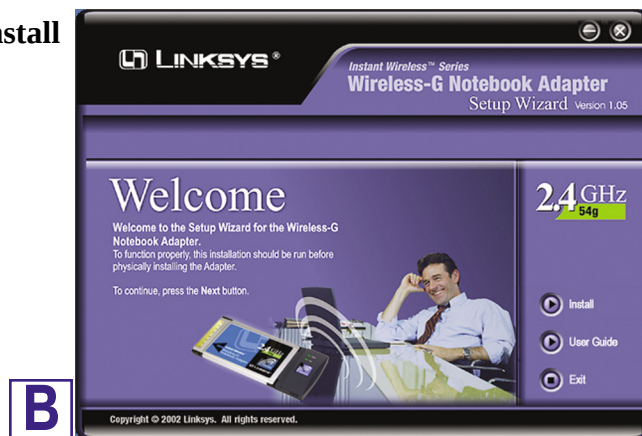
- For Windows 98SE, Me, and 2000, start at Step 1 and finish with Step 2.
- For Windows XP, start at Step 2 and finish with Step 3.

Step 1: Software Installation and Configuration for Windows 98SE, Me, and 2000

Attention Windows XP users: Go directly to Step 2.

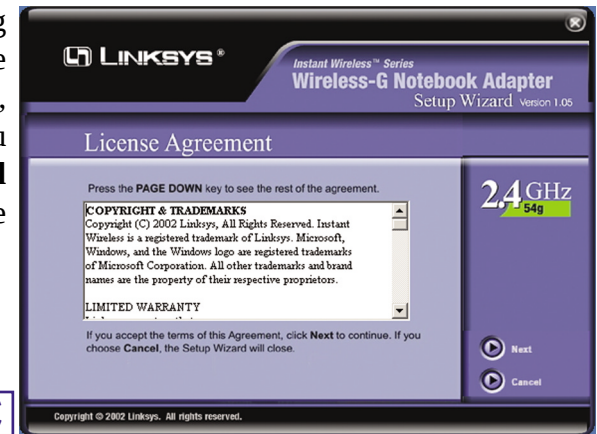
A. Insert the Setup Wizard CD-ROM into your CD-ROM drive. The Setup Wizard should run automatically, and the *Welcome* screen should appear. If it does not, click **Start** and choose **Run**. In the field that appears, enter **D:\setup.exe** (if “D” is the letter of your CD-ROM drive).

B. Click the **Install** button.



C. After reading the License Agreement, click **Next** if you agree, or **Cancel** to end the installation.

C

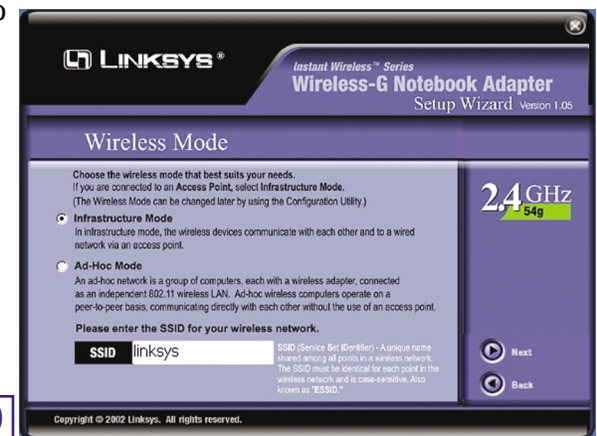


D. The Setup Wizard will ask you to choose a wireless mode. Click the **Infrastructure Mode** radio button if you want your wireless computers to network with computers on your wired network using a wireless access point. Click the **Ad-Hoc Mode** radio button if you want multiple wireless computers to network directly with each other.

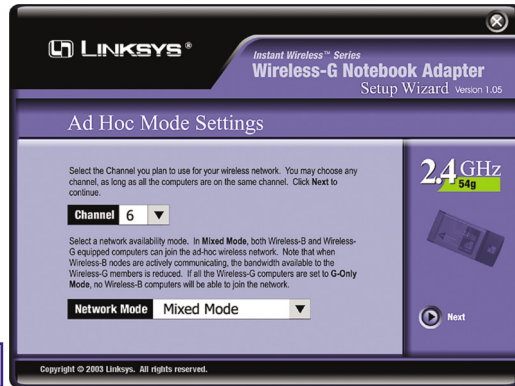
In the *SSID* field, enter the **SSID** of your wireless network. The SSID must be identical for all devices in the network. The default setting is **linksys** (all lowercase). Click **Next**.

For added security, Linksys recommends that you change the default SSID to a unique name.

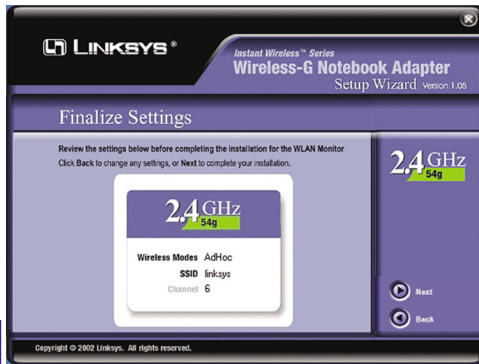
D



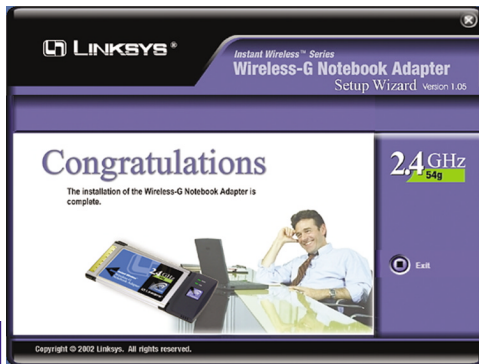
- E. If you chose Infrastructure Mode, go to **Step F** now. If you chose Ad-Hoc Mode, select a **Channel** from the list provided. All computers on your wireless network must use the same channel in order to communicate with each other. If you are unsure about which channel to use, select the default channel (Channel 11). Then, select the *Network Mode: Mixed Mode*, which is for both Wireless-G and Wireless-B, or **G-Only Mode**, if there will be no Wireless-B users.

E

- F. The Setup Wizard will ask you to review your settings before it starts to copy files. Click **Next** if you are satisfied with your settings, or click **Back** to change any settings.

F

- G. After the files have been successfully copied, you will see Figure G. Click the **Exit** button.

G

Proceed to Step 2.

Step 2: Connecting the Wireless-G Notebook Adapter

- Turn off your notebook PC.
- Locate an available CardBus slot on your notebook PC.
- Insert the Adapter with the label side facing up, so the Adapter fits snugly in the CardBus slot.

**C**

- Restart your notebook PC.

- Windows will begin copying the driver files to your computer. If Windows asks you for the original Windows CD-ROM, insert the CD-ROM, and direct Windows to its proper location (e.g., D:\).

Windows 98SE, Me, and 2000 users: Congratulations! The installation of the Wireless-G Notebook Adapter is complete.

Windows XP users: Proceed to Step 3.

Step 3: Driver Installation and Configuration for Windows XP

After connecting the Adapter to your computer, you will install the driver.

- A. Windows XP will automatically detect the Adapter. Insert the Setup CD-ROM into your CD-ROM drive. Click the radio button next to **Install the software automatically (Recommended)**. Then click **Next**.



- B. When Windows has finished installing the driver, click **Finish**.

Note: Windows XP has a built-in configuration tool. Use Windows XP Wireless Zero Configuration (located in the system tray at the bottom of your screen) to configure the Adapter.

- C. After installing the Adapter, the Windows XP Wireless Zero Configuration icon will appear in your computer's system tray. Double-click the icon.

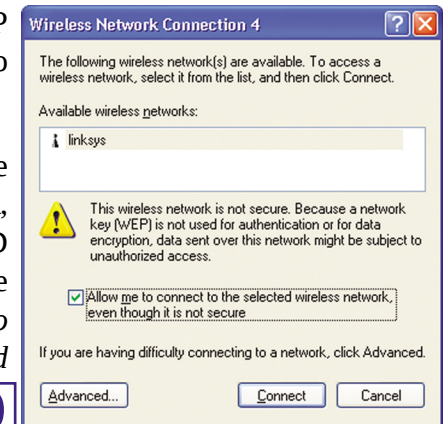


Note: Steps D and E are the instructions and screenshots for Windows XP with Service Pack 1 installed. If you have not installed Service Pack 1, select the network you want, and click the **Connect** button. If the network has WEP encryption enabled, enter the WEP key in the *Network key* field, and then click the **Connect** button.

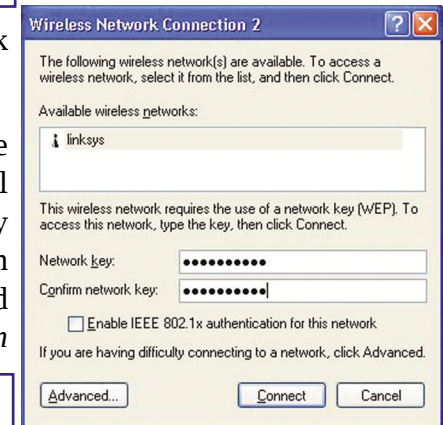
- D. The screen that appears will show any available wireless network. Select the network you want.

If this network has WEP encryption enabled, go to Step E.

If this network does not have WEP encryption enabled, then the screen in Figure D will appear. Make sure the box next to *Allow me to connect to the selected wireless network, even though it is not secure* is checked. Then click **Connect**, and go to Step F.



- E. If WEP is enabled, the screen in Figure E will appear. Enter the WEP key of your wireless network in the *Network key* field, and re-enter it in the *Confirm network key* field. Then click **Connect**.



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

F. The screen in Figure F will appear if your connection is active.



For more information about WEP, refer to your access point's documentation, or visit www.linksys.com. For more information about wireless networking on a Windows XP computer, enter the keyword **wireless** in the Windows XP search engine.

Windows XP users: Congratulations! The installation of the Wireless-G Notebook Adapter is complete.

For additional information or troubleshooting help, refer to the English-language User Guide on the Setup CD-ROM. Assistance is also available from one of these resources:

Email: Europe	<i>europa-support@linksys.com</i>
Latin America	<i>latam-soporte@linksys.com</i>
Web	<i>http://www.linksys.com/international</i>
FTP Site	<i>ftp://ftp.linksys.com</i>

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- Increase the separation between the equipment or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

DÉCLARATION DE CONFORMITÉ CE (EUROPE)

Linksys Group déclare que les produits Instant Wireless® de la gamme Instant Wireless sont conformes aux spécifications énumérées ci-dessous, conformément à la directive 89/336/EEC sur la compatibilité électromagnétique et à la directive 73/23/EEC sur les basses tensions :

ETS 301489-17, 301 489-1 Spécifications CEM générales pour les équipements radio.

EN 609 50 Sécurité.

ETS 300-328-2 Spécifications techniques pour les équipements radio.

Remarque : ce matériel a été conçu pour être utilisé dans tous les pays de l'UE et de l'AELE. Son utilisation en extérieur peut faire l'objet de restrictions de fréquences et/ou peut être soumise à autorisation. Pour plus de détails, contactez le service de conformité aux normes industrielles de Linksys.

Remarque : l'utilisation conjointe de niveaux de puissance et d'antennes générant un niveau de puissance émise supérieur à 100 mW est considérée comme non conforme à la directive susmentionnée et est interdite dans la Communauté Européenne et dans les pays ayant adopté la directive européenne R&TTE 1999/5/EC et/ou la recommandation CEPT Rec 70.03. Pour plus de détails sur l'utilisation légale de niveaux de puissance et d'antennes, veuillez contacter le service de conformité aux normes industrielles de Linksys.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyyppinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen. Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B : L'utilisation en extérieur est autorisée sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300 m. Pour une distance supérieure à 300 m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F : Bande de fréquence restreinte : seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (tp://www.art-telecom.fr>) pour la procédure à suivre.

France F : Bande de fréquence restreinte : seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France. Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications pour la procédure à suivre.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Allemagne D : Toute utilisation avec des installations extérieures est soumise à autorisation. Renseignez-vous auprès de votre fournisseur sur la procédure à suivre.

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.

Italie I : Toute utilisation intérieure est soumise à autorisation. Toute utilisation avec des installations extérieures est interdite.

Pays-Bas NL : Toute utilisation avec des installations extérieures est soumise à autorisation. Renseignez-vous auprès de votre fournisseur sur la procédure à suivre.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

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Afin d'obtenir de l'assistance pour utiliser ou enregistrer nos produits, contactez-nous aux adresses ci-après.

E-mail : Europe	europe-support@linksys.com
Amérique latine	latam-soporte@linksys.com
Web :	http://www.linksys.com/international

Contenu de l'emballage

- Une carte pour ordinateur portable sans fil G
- Le CD-ROM Setup Wizard (Assistant de configuration) contenant le Guide de l'utilisateur en anglais
- Un guide d'installation rapide multilingue

Avant de commencer

L'installation de la carte WPC54G diffère suivant la version de Windows utilisée.

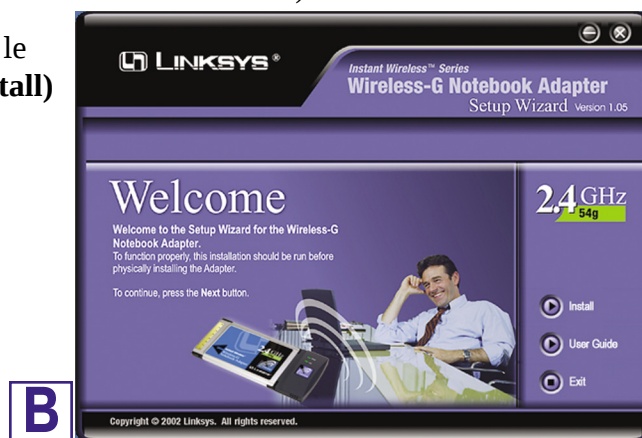
- Sous Windows 98SE, Me et 2000, commencez la procédure à l'étape 1 et terminez-la à l'étape 2.
- Sous Windows XP, commencez la procédure à l'étape 2 et terminez-la à l'étape 3.

Étape 1 : Installation et configuration du logiciel pour Windows 98SE, Me et 2000

Attention : si vous utilisez Windows XP, passez directement à l'étape 2.

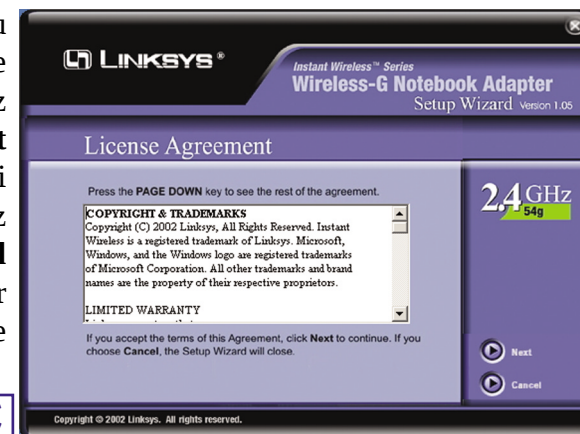
A. Insérez le CD-ROM Setup Wizard (Assistant de configuration) dans le lecteur de CD-ROM. L'Assistant de configuration devrait démarrer automatiquement et l'écran *Welcome* (*Bienvenue*) devrait apparaître. Si ce n'est pas le cas, cliquez sur **Start (Démarrer)**, puis sur **Run (Exécuter)**. Dans le champ qui apparaît, entrez **D:\setup.exe** (« D » représentant votre lecteur de CD-ROM).

B. Cliquez sur le bouton **(Install)** (**Installer**).



B

C. Après avoir lu l'accord de licence, cliquez sur **Next (Suivant)** si vous l'acceptez ou sur **Cancel (Annuler)** pour interrompre l'installation.

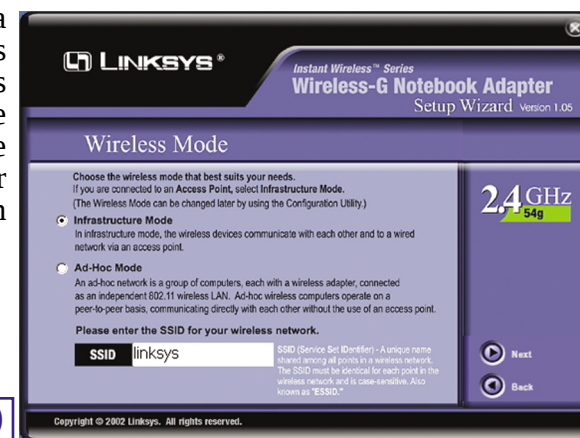


C

D. L'Assistant de configuration va vous demander de choisir un mode de communication sans fil. Cliquez sur le bouton radio **Infrastructure Mode (Mode d'infrastructure)** si vous voulez que vos ordinateurs sans fil soient en réseau avec les ordinateurs de votre réseau câblé à l'aide d'un point d'accès sans fil. Cliquez sur le bouton radio **Ad-Hoc Mode (Mode Ad hoc)** si vous voulez que plusieurs ordinateurs sans fil puissent communiquer directement entre eux.

Dans le champ *SSID (Nom SSID)*, entrez le nom **SSID** de votre réseau sans fil. Le nom SSID doit être identique pour tous les périphériques du réseau. Le paramètre par défaut est **linksys** (entièrement en minuscules). Cliquez sur **Next (Suivant)**.

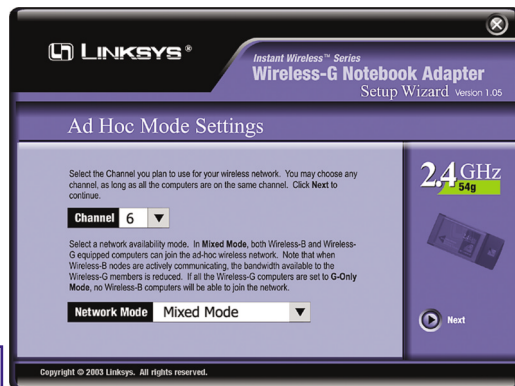
Pour optimiser la sécurité, Linksys vous recommande de remplacer le nom SSID par un nom unique.



D

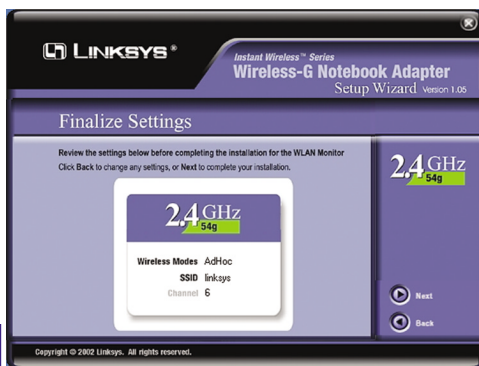
- E. Si vous avez sélectionné Infrastructure Mode (Mode d'infrastructure), passez directement à l'**étape F**. Si vous avez sélectionné Ad-Hoc Mode (Mode Ad hoc), sélectionnez un **canal** dans la liste fournie. Tous les ordinateurs de votre réseau sans fil doivent utiliser le même canal pour communiquer entre eux. Si vous n'êtes pas certain du canal à utiliser, sélectionnez le canal par défaut (Canal 11). Enfin, sélectionnez le **mode du réseau : Mixed Mode (Mode mixte)** si les connectivités sans fil B et G sont utilisées ou **G-Only Mode (Mode G uniquement)** si la norme sans fil B n'est pas utilisée.

E



- F. L'Assistant de configuration vous demandera de vérifier les paramètres que vous avez définis avant de commencer à copier des fichiers. Cliquez sur **Next (Suivant)** si la configuration vous convient ou sur **Back (Retour)** pour modifier un paramètre.

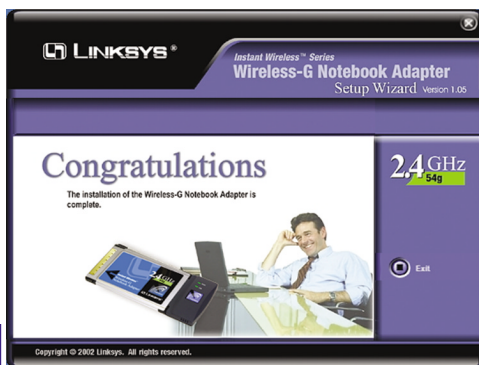
F



- G. Une fois que les fichiers ont été correctement copiés, l'écran suivant (figure G) apparaît. Cliquez sur le bouton **Exit (Quitter)**.

Passez à l'étape 2.

G



Étape 2 : Branchement de la carte pour ordinateur portable sans fil G

- Mettez votre ordinateur portable hors tension.
- Localisez un connecteur CardBus disponible sur votre ordinateur portable.
- Insérez-y la carte, la face portant une étiquette tournée vers le haut. Veillez à ce que la carte soit parfaitement insérée dans le connecteur CardBus.



C

- Redémarrez votre ordinateur portable.
- Windows commence à copier les fichiers de pilotes sur votre ordinateur. Si Windows vous demande d'insérer le CD-ROM de Windows d'origine, insérez celui-ci, puis indiquez à Windows le chemin d'accès approprié (par exemple D:\).

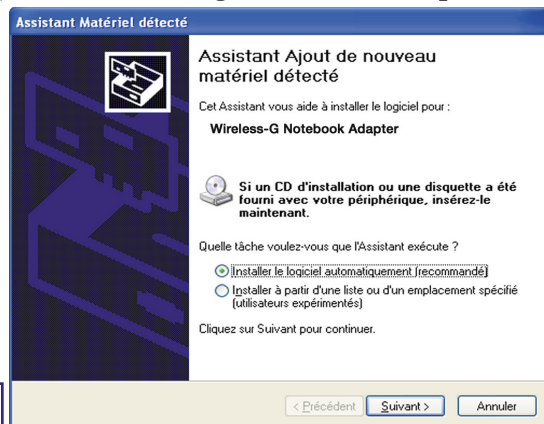
**Utilisateurs de Windows 98SE, Me et 2000 : Félicitations !
L'installation de la carte sans fil G est terminée.**

Utilisateurs de Windows XP : passez à l'étape 3.

Étape 3 : Installation et configuration du pilote pour Windows XP

Après le montage de la carte dans l'ordinateur, vous devez installer le pilote.

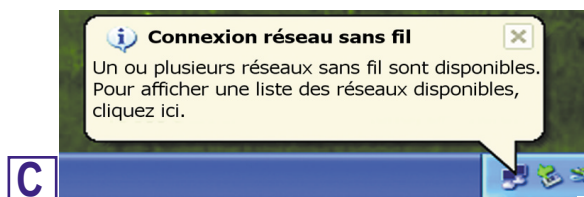
- A. Windows XP détecte automatiquement la carte. Insérez le CD-ROM d'installation dans le lecteur correspondant. Cliquez sur le bouton radio **Install the software automatically (Recommended) (Installer le logiciel automatiquement (recommandé))**. Cliquez ensuite sur **Next (Suivant)**.



- B. Une fois que Windows a fini d'installer le pilote, cliquez sur **Finish (Terminer)**.

Remarque : Windows XP intègre un outil de configuration. Utilisez l'option de configuration automatique de réseau sans fil de Windows XP (il est situé dans la barre d'état système en bas de l'écran) pour configurer la carte.

- C. Une fois la carte installée, l'icône de configuration automatique de réseau sans fil de Windows XP apparaît dans la barre d'état système de l'ordinateur. Cliquez deux fois sur cette icône.

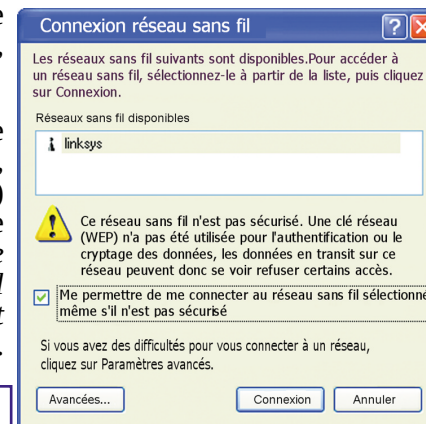


Remarque : les étapes D et E contiennent des instructions et des captures d'écran relatives à Windows XP avec le Service Pack 1 installé. Si vous n'avez pas installé le Service Pack 1, sélectionnez le réseau qui vous intéresse, puis cliquez sur le bouton **Connexion**. Si le cryptage WEP est activé sur le réseau, entrez la clé WEP dans le champ *Clé réseau*, puis cliquez sur le bouton **Connexion**.

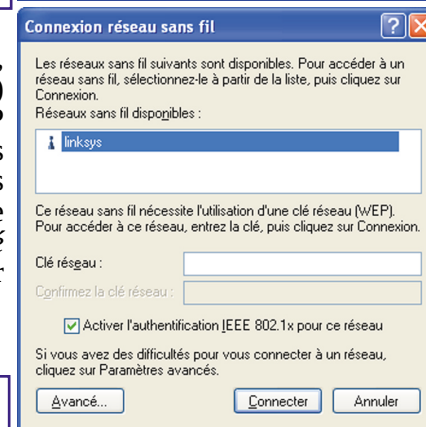
- D. L'écran qui apparaît indique tous les réseaux sans fil disponibles. Sélectionnez le réseau qui vous intéresse.

Si vous avez activé le cryptage WEP sur ce réseau, passez à l'étape E.

Si vous n'avez pas activé le cryptage WEP sur ce réseau, l'écran suivant (figure D) apparaît. Vérifiez que la case en regard de *M'autoriser à me connecter au réseau sans fil sélectionné, même s'il n'est pas protégé* est cochée. Cliquez ensuite sur **Connexion**, puis passez à l'étape F.



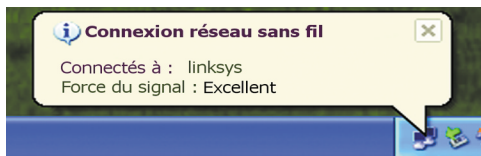
- E. Si le cryptage WEP est activé, l'écran suivant (figure E) apparaît. Entrez la clé WEP de votre réseau sans fil dans le champ *Clé du réseau*, puis entrez-la de nouveau dans le champ *Confirmation de la clé du réseau*. Cliquez ensuite sur **Connexion**.



Important : l'utilitaire de configuration automatique sans fil de Windows XP ne prend pas en charge l'utilisation d'une phrase mot de passe. Entrez la clé WEP exacte utilisée par votre point d'accès.

F. L'écran ci-dessous (figure F) apparaît si votre connexion est active.

F



Pour de plus amples informations sur le cryptage WEP, reportez-vous à la documentation de votre point d'accès ou visitez le site www.linksys.com. Pour de plus amples informations sur la gestion des réseaux sans fil sur un ordinateur fonctionnant sous Windows XP, entrez le mot de passe **wireless (sans fil)** dans le moteur de recherche de Windows XP.

Utilisateurs de Windows XP : Félicitations ! L'installation de la carte sans fil G est terminée.

Pour obtenir de plus amples informations ou une assistance technique, reportez-vous au Guide de l'utilisateur en anglais figurant sur le CD-ROM d'installation. Les ressources suivantes peuvent également être source d'assistance :

E-mail :

Europe

europe-support@linksys.com

Amérique latine

latam-soporte@linksys.com

Web :

<http://www.linksys.com/international>

Site FTP

<ftp://ftp.linksys.com>

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FCC STATEMENT

The Wireless-G Notebook Adapter has been tested and complies with the specifications 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 according to 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 is found 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 or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

EU-KONFORMITÄTSERKLÄRUNG (EUROPA)

Die Linksys-Gruppe erklärt, dass die Produkte der Instant Wireless®-Serie die unten stehenden Spezifikationen erfüllen und den Bestimmungen der EMV-Richtlinie 89/336/EWG sowie der Niederspannungsrichtlinie 73/23/EWG nachkommen:

ETS 301489-17, 301 489-1 Allgemeine EMV-Voraussetzungen für Funkausrüstungen.

EN 609 50 Sicherheit

ETS 300-328-2 Technische Voraussetzungen für Funkausrüstungen.

Hinweis: Dieses Gerät ist zur Verwendung in allen Ländern der EU und EFTA bestimmt. Die Verwendung im Freien ist u. U. auf bestimmte Frequenzen beschränkt bzw. erfordert eine Betriebslizenz. Weitere Details erhalten Sie von der Abteilung für Unternehmensvorschriften von Linksys.

Hinweis: Kombinationen von Leistungspegeln und Antennen, die zu einem ausgestrahlten Leistungspegel von mehr als 100 mW führen, erfüllen nicht die Bestimmungen der oben genannten Richtlinien und sind deshalb nicht für die Verwendung innerhalb der EU und jenen Ländern zulässig, die die europäische Richtlinie R&TTE 1999/5/EC bzw. die CEPT-Empfehlung Rec 70.03 übernommen haben. Weitere Informationen zu rechtlich zulässigen Kombinationen von Leistungspegeln und Antennen erhalten Sie von der Abteilung für Unternehmensvorschriften von Linksys.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyypinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen. Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B L'utilisation en extérieur est autorisée sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: Bande de fréquence restreinte: seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (tp://www.art-telecom.fr>) pour la procédure à suivre.

Frankreich F: Eingeschränktes Frequenzband: Es dürfen nur die Kanäle 10, 11, 12, 13 (2457, 2462, 2467 bzw. 2472 MHz) verwendet werden. Anmeldung im Indoor- und Outdoor-Bereich notwendig. Bitte mit ART die Vorgehensweise abstimmen.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.

Italien I: Anmeldung im Indoor-Bereich notwendig. Darf nicht mit Outdoor-Installationen verwendet werden.

Niederlande NL: Anmeldung im Outdoor-Bereich notwendig. Bitte mit Händler die Vorgehensweise abstimmen.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure

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Wenden Sie sich für Produkt-Support und zur Produkt-Registrierung an eine der folgenden Adressen:

E-Mail: Europa	europe-support@linksys.com
Lateinamerika	latam-soporte@linksys.com
Internet	http://www.linksys.com/international

Lieferumfang

- Ein Wireless-G Notebook-Adapter
- Eine Setup Wizard CD-ROM (Setup-Assistenten-CD-ROM) mit englischsprachigem Benutzerhandbuch
- Eine mehrsprachige Kurzanleitung

Bevor Sie beginnen

Die Installation des WPC54G ist je nach Windows-Version unterschiedlich.

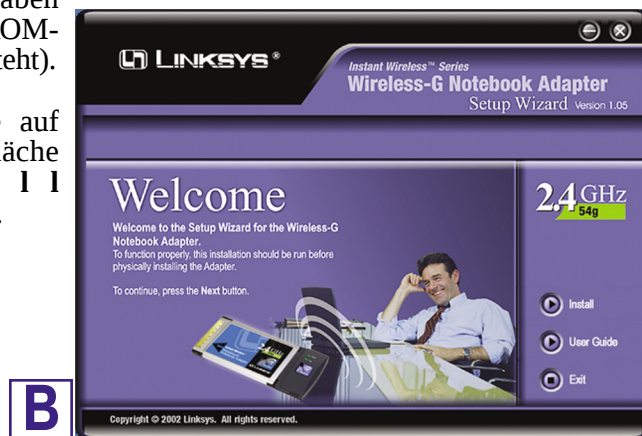
- Beginnen Sie bei Windows 98SE, ME und 2000 mit Schritt 1, und schließen Sie die Installation mit Schritt 2 ab.
- Beginnen Sie bei Windows XP mit Schritt 2, und schließen Sie die Installation mit Schritt 3 ab.

Schritt 1: Software-Installation und -Konfiguration für Windows 98SE, ME und 2000

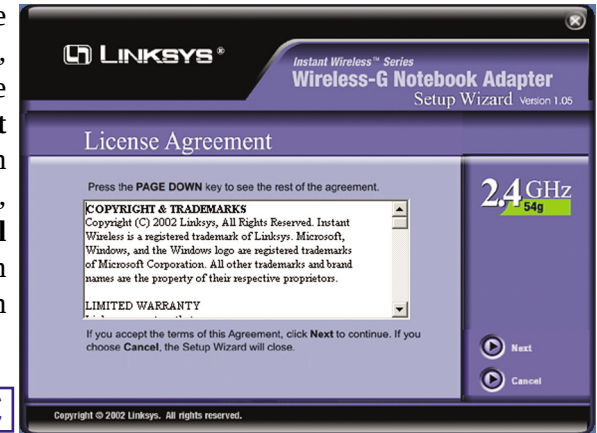
Wichtiger Hinweis für Windows XP-Benutzer: Überspringen Sie diesen Schritt, und fahren Sie mit Schritt 2 fort.

A. Legen Sie die Setup-Assistenten-CD-ROM in Ihr CD-ROM-Laufwerk ein. Der Setup-Assistent sollte automatisch gestartet und das *Willkommensfenster* angezeigt werden. Wenn dies nicht der Fall ist, klicken Sie auf **Start**, und wählen Sie **Ausführen** aus. Geben Sie im daraufhin angezeigten Feld **D:\setup.exe** ein (wobei „D“ für den Buchstaben Ihres CD-ROM-Laufwerks steht).

B. Klicken Sie auf die Schaltfläche **Installieren**.



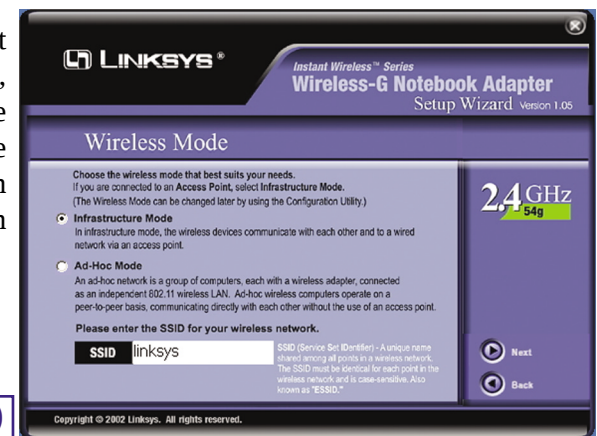
C. Lesen Sie die Lizenzvereinbarung, und klicken Sie auf **Next** (Weiter), sofern Sie zustimmen, bzw. auf **Cancel** (Abbrechen), um die Installation abzuberechnen.



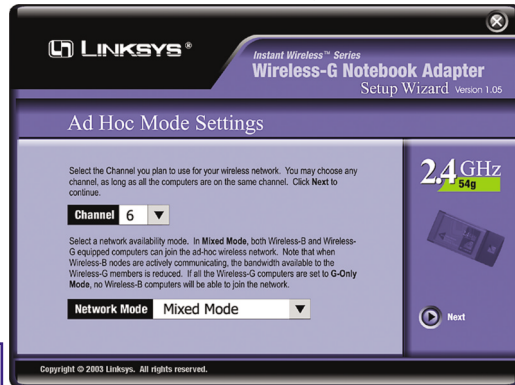
D. Der Setup-Assistent fordert Sie auf, einen drahtlosen Modus auszuwählen. Klicken Sie auf die Schaltfläche **Infrastructure Mode** (Infrastrukturmodus), wenn Ihre drahtlosen Computer mit Hilfe eines drahtlosen Zugriffspunkts mit Computern auf einem verdrahteten Netzwerk vernetzt werden sollen. Klicken Sie auf die Optionsschaltfläche **Ad-Hoc Mode** (Ad-Hoc-Modus), wenn mehrere drahtlose Computer direkt miteinander vernetzt werden sollen.

Geben Sie in das Feld **SSID** (SS-ID) die **SSID** Ihres drahtlosen Netzwerks ein. Die SS-ID muss für alle Netzwerkgeräte identisch sein. Die Standardeinstellung lautet **linksys** (alles klein geschrieben). Klicken Sie auf **Next** (Weiter).

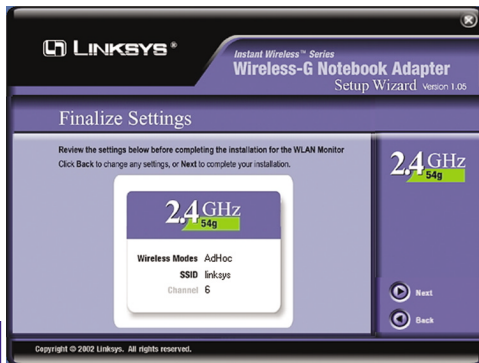
Um die Sicherheit zu erhöhen, sollten Sie die standardmäßige SS-ID in einen eindeutigen Namen ändern.



- E. Wenn Sie die Option **Infrastructure Mode** (Infrastrukturmodus) ausgewählt haben, fahren Sie jetzt mit **Schritt F** fort. Wenn Sie **Ad-Hoc Mode** (Ad-Hoc-Modus) gewählt haben, wählen Sie aus der Liste eine Option für **Channel** (Kanal) aus. Um miteinander kommunizieren zu können, müssen alle Computer in Ihrem drahtlosen Netzwerk denselben Kanal verwenden. Wenn Sie nicht sicher sind, welchen Kanal Sie verwenden sollen, wählen Sie den **Standardkanal** (Kanal 11) aus. Wählen Sie dann die Option für **Network Mode**: **Mixed Mode** (Netzwerkmodus: Gemischter Modus), die sowohl für Wireless-G als auch für Wireless-B gilt, oder **G-Only Mode** (Nur G-Modus), wenn keine Wireless-B-Benutzer vorhanden sind. **E**

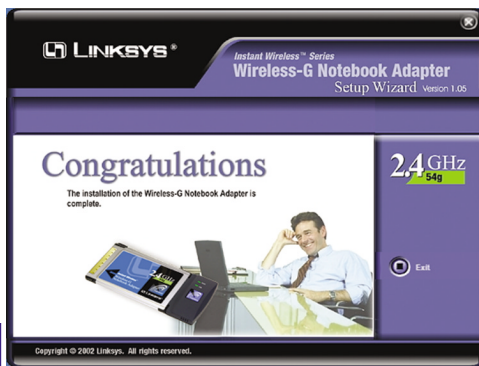


- F. Der Setup-Assistent fordert Sie auf, Ihre Einstellungen zu überprüfen, bevor mit dem Kopieren von Dateien begonnen wird. Wenn Sie mit der Auswahl der Einstellungen zufrieden sind, klicken Sie auf **Next** (Weiter). Andernfalls klicken Sie auf **Back** (Zurück), um die Einstellungen zu ändern. **F**



- G. Nach erfolgreichem Kopieren der Dateien wird das in Abbildung G dargestellte Fenster angezeigt. Klicken Sie auf **Exit** (Beenden). **G**

Fahren Sie mit Schritt 2 fort.



Schritt 2: Anschließen des Wireless-G Notebook Adapters

- A. Schalten Sie das Notebook aus.
B. Suchen Sie auf Ihrem Notebook nach einem verfügbaren CardBus-Steckplatz.
C. Setzen Sie den Adapter mit der beschrifteten Seite nach oben ein. Achten Sie darauf, dass der Adapter exakt im CardBus-Steckplatz eingesetzt ist.



C

- D. Starten Sie das Notebook neu.
E. Windows beginnt mit dem Kopieren der Treiberdateien auf den Computer. Legen Sie bei Aufforderung die Original-CD-ROM von Windows ein, und geben Sie den entsprechenden Speicherort an (z. B. D:\).

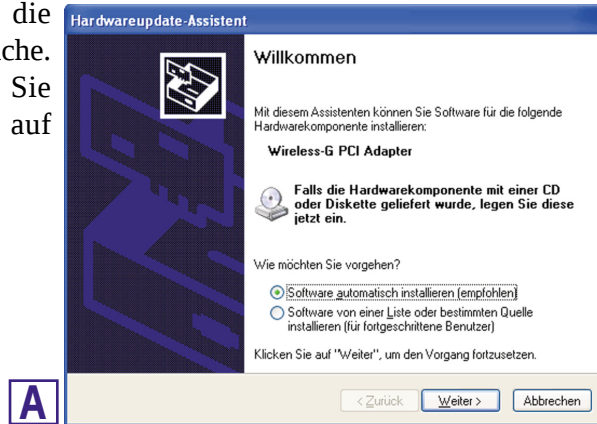
Benutzer von Windows 98SE, ME und 2000: Herzlichen Glückwunsch! Die Installation des Wireless-G Notebook-Adapters ist hiermit abgeschlossen.

Benutzer von Windows XP: Fahren Sie mit Schritt 3 fort.

Schritt 3: Treiberinstallation und -konfiguration für Windows XP

Nachdem Sie den Adapter an Ihren Computer angeschlossen haben, installieren Sie den Treiber.

- A. Windows XP stellt den Adapter automatisch fest. Legen Sie die Setup-CD-ROM in das CD-ROM-Laufwerk ein. Klicken Sie neben **Software automatisch installieren (empfohlen)** auf die Optionsschaltfläche. Klicken Sie anschließend auf **Weiter**.



- B. Nachdem Windows den Treiber installiert hat, klicken Sie auf **Fertig stellen**.

Hinweis: Windows XP verfügt über ein integriertes Konfigurations-Tool. Konfigurieren Sie den Adapter mit Hilfe der konfigurationsfreien drahtlosen Verbindung von Windows XP (in der Taskleiste unten auf Ihrem Bildschirm).

- C. Nach der Installation des Adapters wird in der Taskleiste Ihres Computers das Symbol für die konfigurationsfreie drahtlose Verbindung von Windows XP angezeigt. Doppelklicken Sie auf das Symbol.

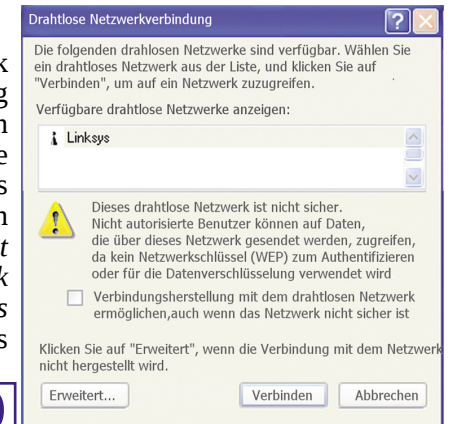


Hinweis: Die Schritte D und E enthalten Anweisungen und Abbildungen für Windows XP mit installiertem Service Pack 1. Wenn Service Pack 1 nicht installiert ist, wählen Sie das gewünschte Netzwerk aus und klicken Sie auf die Schaltfläche **Verbinden**. Wenn für das Netzwerk die WEP-Verschlüsselung aktiviert ist, geben Sie den WEP-Schlüssel in das Feld *Netzwerkschlüssel* ein und klicken Sie dann auf die Schaltfläche **Verbinden**.

- D. Im folgenden Fenster werden alle verfügbaren drahtlosen Netzwerke angezeigt. Wählen Sie das gewünschte Netzwerk aus.

Wenn für dieses Netzwerk die WEP-Verschlüsselung aktiviert ist, fahren Sie mit Schritt E fort.

Wenn für dieses Netzwerk keine WEP-Verschlüsselung aktiviert ist, wird das in Abbildung D dargestellte Fenster angezeigt. Das Kontrollkästchen neben *Verbindungsherstellung mit dem drahtlosen Netzwerk ermöglichen, auch wenn das Netzwerk nicht sicher ist* muss aktiviert sein. Klicken Sie auf **Verbinden**, und fahren Sie mit Schritt F fort.



- E. Wenn WEP aktiviert ist, wird das in Abbildung E dargestellte Fenster angezeigt. Geben Sie den WEP-Schlüssel Ihres drahtlosen Netzwerks zunächst in das Feld *Netzwerkschlüssel* und dann noch einmal in das Feld *Netzwerkschlüssel bestätigen* ein. Klicken Sie dann auf **Verbinden**.



Wichtig: Die konfigurationsfreie drahtlose Verbindung unter Windows XP unterstützt nicht die Verwendung von Passphrasen. Geben Sie den genauen, von Ihrem Zugriffspunkt verwendeten WEP-Schlüssel ein.

F. Das in Abbildung F dargestellte Fenster wird bei aktiver Verbindung angezeigt.

F



Weitere Informationen zu WEP finden Sie in Ihrem Access Point-Benutzerhandbuch oder auf unserer Website unter www.linksys.com. Weitere Informationen zu drahtlosen Netzwerkverbindungen auf einem Windows XP-Computer erhalten Sie, wenn Sie in der Windows XP-Suchmaschine den Begriff **drahtlos** (bzw. wireless) eingeben.

Windows XP-Benutzer: Herzlichen Glückwunsch!

Die Installation des Wireless-G Notebook-Adapters ist hiermit abgeschlossen.

Weitere Informationen und Anleitungen zur Fehlerbehebung finden Sie im englischsprachigen Benutzerhandbuch auf der Installations-CD-ROM. Darüber hinaus können Sie über folgende Ansprechpartner Hilfestellung erhalten:

E-Mail: Europa	europe-support@linksys.com
Lateinamerika	latam-soporte@linksys.com
Internet	http://www.linksys.com/international
FTP-Site	ftp://ftp.linksys.com

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DICHIARAZIONE FCC

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- Increase the separation between the equipment or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

DICHIARAZIONE DI CONFORMITÀ CE (EUROPA)

Linksys Group dichiara che i prodotti della Serie Instant Wireless® che fanno parte della Serie Instant Wireless® sono conformi alle specifiche tecniche elencate di seguito, in osservanza delle clausole della direttiva EMC 89/336/EEC e della direttiva sulla bassa tensione 73/23/EEC:

ETS 300-826, 301 489-1 Requisiti generali EMC per gli apparecchi radio.

EN 609 50 Sicurezza

ETS 300-328-2 Requisiti tecnici per gli apparecchi radio.

Nota: questo dispositivo è destinato all'uso nei paesi dell'Unione Europea e nei paesi appartenenti all'EFTA. L'uso in esterni può essere limitato a certe frequenze e/o può richiedere una licenza d'uso. Per ulteriori dettagli, contattare il reparto di conformità aziendale Linksys.

Nota: le combinazioni di livelli di potenza e antenne che forniscono un livello di potenza irradiata superiore a 100 mW non sono considerate conformi alla direttiva sopraindicata e il loro uso non è consentito nell'Unione Europea e nei paesi che hanno adottato la direttiva europea R&TTE 1999/5/EC e/o la raccomandazione CEPT Rec 70.03. Per ulteriori dettagli sulle combinazioni di livelli di potenza e antenne consentite, contattare il reparto di conformità aziendale Linksys.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyyppinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen.

Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B L'utilisation en extérieur est autorisée sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise.

Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: Bande de fréquence restreinte: seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications

(tp://www.art-telecom.fr>) pour la procédure à suivre.

France F: Restricted frequency band: only channels 10, 11, 12, 13 (2457, 2462, 2467, and 2472 MHz respectively) may be used in France. License required for every indoor and outdoor installations. Please contact ART for procedure to follow.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Germany D: License required for outdoor installations. Check with reseller for procedure to follow.

Italia I: È necessaria la licenza per l'uso in interni. Non è consentito l'uso per l'installazione in esterni.

the Netherlands NL License required for outdoor installations. Check with reseller for procedure to follow.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure

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Per la registrazione del prodotto e per ottenere assistenza, contattare Linksys a uno dei seguenti indirizzi:

E-mail: Europa	europe-support@linksys.com
America Latina	latam-soporte@linksys.com
Sito Web	http://www.linksys.com/international

Contenuto della confezione

- Un Wireless-G Notebook Adapter
- Un Setup Wizard CD-ROM (CD per l'installazione guidata) contenente la User Guide (Guida per l'utente, solo in lingua inglese)
- Una Guida per l'installazione rapida multilingue

Operazioni preliminari

La procedura di installazione del modello WPC54G varia a seconda delle diverse versioni di Windows.

- Per Windows 98SE, Me e 2000, attenersi alle istruzioni riportate nelle Fasi 1 e 2.
- Per Windows XP, attenersi alle istruzioni riportate nelle Fasi 2 e 3.

Fase 1: installazione e configurazione del software per Windows 98SE, Me e 2000

Nota importante per gli utenti di Windows XP: passare direttamente alla Fase 2.

A. Inserire il Setup Wizard CD-ROM (CD per l'installazione guidata) nell'apposita unità. L'installazione guidata dovrebbe avviarsi automaticamente visualizzando la schermata *Welcome* (Benvenuti). In caso contrario, fare clic sul pulsante **Start** e selezionare **Esegui**.

Immettere
D:\setup.exe
(dove "D" è la lettera dell'unità CD-ROM) nel campo visualizzato.

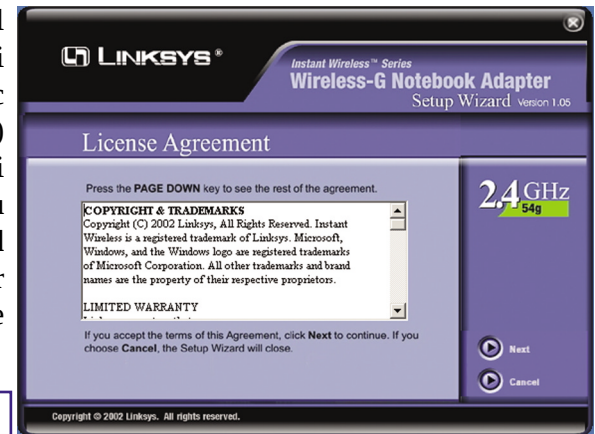
B. Fare clic sul pulsante **Install** (Installa).

B



C. Dopo aver letto il Contratto di licenza, fare clic su **Next** (Avanti) se si accettano i termini o su **Cancel** (Annulla) per interrompere l'installazione.

C

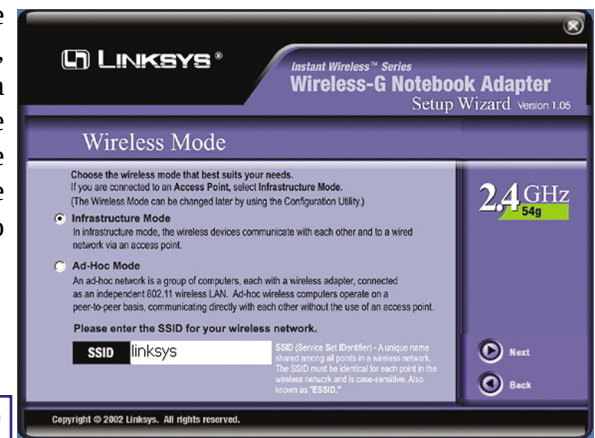


D. Durante l'installazione guidata sarà necessario scegliere una modalità wireless. Fare clic sul pulsante di opzione **Infrastructure Mode** (Modalità infrastruttura) per collegare i computer wireless con i computer connessi alla rete via cavo usando un punto di accesso wireless. Fare clic sul pulsante di opzione **Ad-Hoc Mode** (Modalità ad hoc) per collegare direttamente più computer wireless tra di loro.

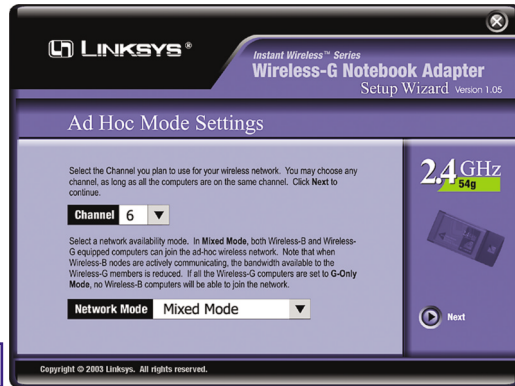
Nel campo **SSID**, immettere l'**SSID** della rete wireless. L'**SSID** deve essere identico per tutte le periferiche presenti nella rete. L'impostazione predefinita è **linksys** (tutto in minuscolo). Fare clic su **Next** (Avanti).

Per una maggiore sicurezza, Linksys consiglia di impostare un nome univoco come identificativo SSID predefinito.

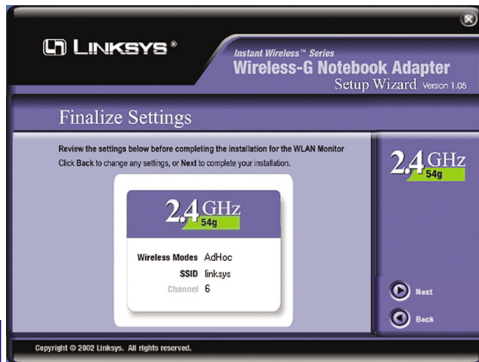
D



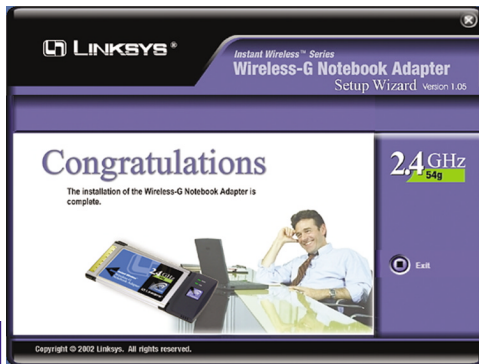
- E. Se si sceglie l'opzione Infrastructure Mode (Modalità infrastruttura), passare direttamente alla **Fase F**. Se si sceglie l'opzione Ad-Hoc Mode (Modalità ad hoc), selezionare un canale dall'elenco **Channel** (Canale). Tutti i computer della rete wireless devono utilizzare lo stesso canale per comunicare tra di loro. Se non si è certi del canale da utilizzare, selezionare il canale predefinito (Canale 11). Selezionare quindi l'opzione **Network Mode** (Modalità di rete): **Mixed Mode** (Modalità mista), valida sia per le reti Wireless-G che Wireless-B oppure **G-Only Mode** (Modalità solo G), se non sono presenti utenti Wireless-B. **E**



- F. Prima di iniziare a copiare i file, l'installazione guidata chiederà di confermare le impostazioni. Fare clic su **Next** (Avanti) per confermare le impostazioni oppure **Back** (Indietro) per modificarle. **F**



- G. Dopo aver copiato correttamente i file, viene visualizzata la schermata riportata nella figura G. Fare clic sul pulsante **Exit** (Esci). **G**



Continuare con la Fase 2.

Fase 2: collegamento del Wireless-G Notebook Adapter

- Spegnere il notebook.
- Individuare uno slot CardBus vuoto sul notebook PC.
- Inserire l'adattatore con l'etichetta rivolta verso l'alto in modo che si inserisca perfettamente nello slot CardBus.



- D. Riavviare il notebook.

- E. Windows inizia a copiare i file del driver sul computer. Se richiesto, inserire il CD originale di Windows e specificare in quale unità si trova (ad esempio, D:\).

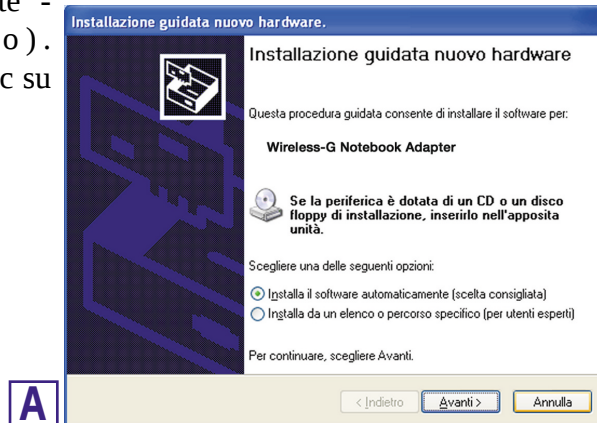
Utenti di Windows 98SE, Me e 2000: Congratulazioni!
L'installazione del Wireless-G Notebook Adapter è completata.

Per gli utenti di Windows XP: continuare con la Fase 3.

Fase 3: installazione e configurazione del software per Windows XP

Dopo aver collegato l'adattatore al computer, installare il driver.

- A. Windows XP rileverà automaticamente l'adattatore. Inserire il Setup CD-ROM (CD per l'installazione guidata) nell'apposita unità. Fare clic sul pulsante di opzione accanto a **Install the software automatically (Recommended)** (Installa il software automaticamente - Consigliato). Quindi, fare clic su **Next** (Avanti).



- B. Dopo aver terminato l'installazione del driver, fare clic su **Finish** (Fine).

Nota: Windows XP dispone di uno strumento di configurazione incorporato. Per configurare l'adattatore, usare l'utilità Zero Configuration per le reti senza fili di Windows XP (situata sulla barra delle applicazioni nella parte inferiore dello schermo).

- C. Dopo aver installato l'adattatore, l'icona di Zero Configuration per le reti senza fili di Windows XP apparirà sulla barra delle applicazioni del computer. Fare doppio clic su quest'icona.

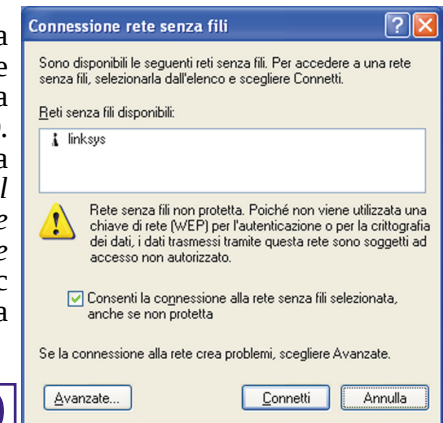


Nota: le Fasi D ed E contengono le istruzioni e gli screenshot di Windows XP con Service Pack 1 installato. Se Service Pack 1 non è installato, selezionare la rete desiderata e fare clic sul pulsante **Connetti**. Se sulla rete è attivata la cifratura WEP, immettere la chiave WEP nel campo *Chiave di rete*, quindi fare clic sul pulsante **Connetti**.

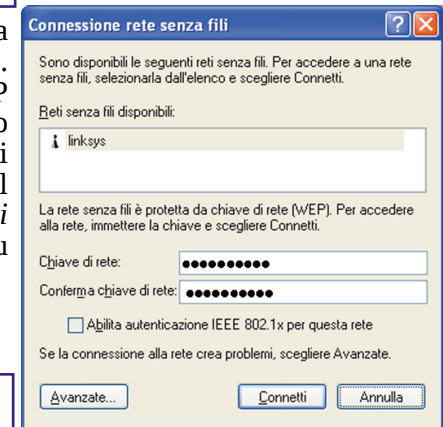
- D. Comparirà una schermata con le reti wireless disponibili. Selezionare la rete desiderata.

Se sulla rete è attivata la cifratura WEP, passare alla Fase E.

Se sulla rete non è attivata la cifratura WEP, viene visualizzata la schermata riportata nella Figura D. Accertarsi che sia selezionata la casella *Consenti il collegamento alla rete wireless selezionata anche se non è protetta*, quindi fare clic su **Connetti** e passare alla Fase F.



- E. Se la cifratura WEP è attivata, viene visualizzata la schermata riportata nella figura E. Immettere la chiave WEP della rete wireless nel campo *Chiave di rete*, quindi immetterla nuovamente nel campo *Conferma chiave di rete* e infine fare clic su **Connetti**.



Importante: Zero Configuration per le reti senza fili di Windows XP non supporta l'uso di una passphrase. Immettere la chiave WEP esatta usata dal punto di accesso.

F. La schermata riportata nella Figura F viene visualizzata quando il collegamento è attivato.

F



Per ulteriori informazioni sulla cifratura WEP, consultare la documentazione del punto di accesso o visitare www.linksys.com. Per ulteriori informazioni sul collegamento a una rete wireless di un computer con Windows XP in esecuzione, immettere la parola chiave **wireless** nel motore di ricerca di Windows XP.

Utenti di Windows XP: Congratulazioni! L'installazione del Wireless-G Notebook Adapter è completata.

Per ulteriori informazioni o istruzioni relative alla risoluzione dei problemi, consultare la User Guide (Guida per l'utente, solo in lingua inglese) nel Setup CD-ROM (CD per l'installazione guidata). È anche possibile ottenere assistenza utilizzando uno dei seguenti contatti:

E-mail:

Europa europe-support@linksys.com

America Latina latam-soporte@linksys.com

Sito Web <http://www.linksys.com/international>

Sito FTP <ftp://ftp.linksys.com>

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FCC STATEMENT

The Wireless-G Notebook Adapter has been tested and complies with the specifications 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 according to 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 is found 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 or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

DECLARAÇÃO DE CONFORMIDADE CE (EUROPA)

O Linksys Group declara que os produtos da Série Instant Wireless® incluídos na Série Instant Wireless estão em conformidade com as especificações abaixo listadas, segundo as disposições da Directiva CEM 89/336/CEE e da Directiva de baixa tensão 73/23/CEE:

ETS 301489-17, 301 489-1 Requisitos de CEM gerais para equipamento de rádio.

EN 609 50 Segurança

ETS 300-328-2 Requisitos técnicos para equipamento de rádio.

Nota: este equipamento destina-se a ser utilizado em todos os países da U.E. e E.F.T.A. É possível que a utilização no exterior esteja limitada a determinadas frequências e/ou poderá ser necessária uma licença de funcionamento. Para obter informações mais detalhadas, contacte a Linksys Corporate Compliance.

Nota: as combinações de níveis de potência e antenas que resultem num nível de potência radiada superior a 100 mW não estão em conformidade com a directiva acima mencionada e a sua utilização não é permitida na Comunidade Europeia e nos países que adoptaram a directiva europeia R&TTE 1999/5/CE e/ou a recomendação CEPT Rec 70.03. Para obter informações mais detalhadas sobre as combinações legais dos níveis de potência e antenas, contacte a Linksys Corporate Compliance.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyypinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen. Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B L'utilisation en extérieur est autorisée sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: Bande de fréquence restreinte: seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (tp://www.art-telecom.fr) pour la procédure à suivre.

França, F: banda de frequências restrita: só podem ser utilizados em França os canais 10, 11, 12, 13 (2457, 2462, 2467 e 2472 MHz respectivamente). Licença necessária para todas as instalações interiores e exteriores. Contacte a ART para saber qual o procedimento a seguir.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Alemanha, D: licença necessária para instalações exteriores. Consulte o revendedor para saber qual o procedimento a seguir

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.

Italia I: Licença necessária para utilização interior. Não é permitida a utilização em instalações exteriores.

Países Baixos, NL: licença necessária para instalações exteriores. Consulte o revendedor para saber qual o procedimento a seguir.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure

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Para obter suporte técnico e efectuar o registo dos produtos, contacte-nos através dos seguintes endereços:

Correio electrónico:

Europa europe-support@linksys.com

América Latina latam-soporte@linksys.com

Web site <http://www.linksys.com/international>

Conteúdo da embalagem

- Uma placa sem fios-G para portáteis
- Um CD-ROM do Setup Wizard (Assistente de configuração) (inclui o Manual do Utilizador em inglês)
- Um Manual de Instalação Rápida em vários idiomas

Antes de começar

A instalação do WPC54G varia consoante as diferentes versões do Windows.

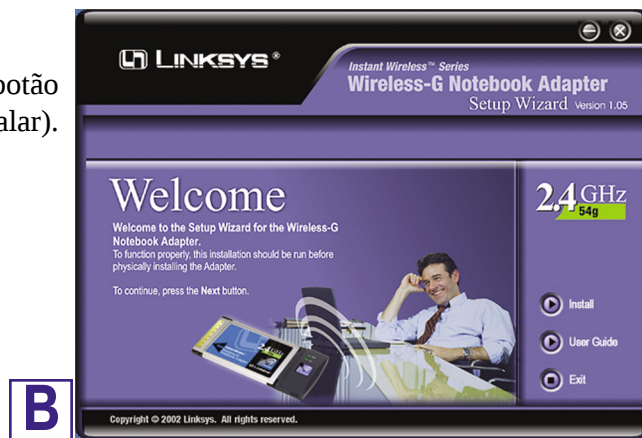
- Para o Windows 98SE, Me e 2000, comece no Passo 1 e termine no Passo 2.
- Para o Windows XP, comece no Passo 2 e termine no Passo 3.

Passo 1: Instalação e configuração de software para o Windows 98SE, Me e 2000

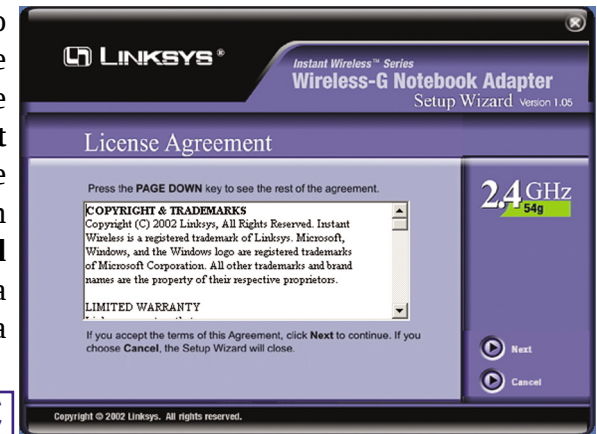
Atenção, utilizadores do Windows XP: Ir directamente para o Passo 2.

A. Coloque o CD-ROM do Setup Wizard (Assistente de configuração) na unidade de CD-ROM. O Setup Wizard (Assistente de configuração) deverá ser executado automaticamente e deverá ser apresentado o ecrã *Welcome* (Bem-vindo). Se tal não acontecer, clique em **Iniciar** e seleccione **Executar**. No campo apresentado, introduza **D:\setup.exe** (se “D” corresponder à letra da unidade de CD-ROM).

B. Clique no botão **Install** (Instalar).



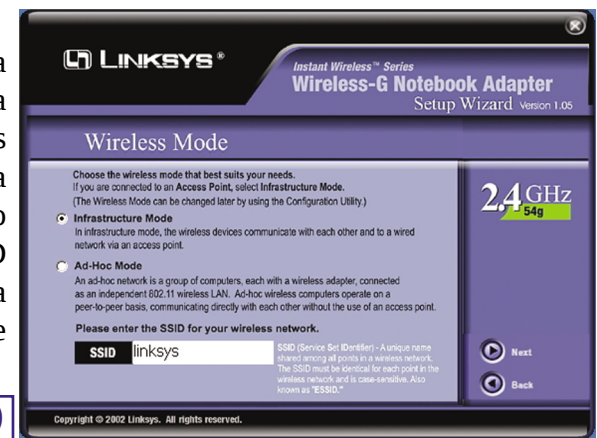
C. Depois de ler o Contrato de licença, clique em **Next** (Seguinte) se concordar ou em **Cancel** (Cancelar) para terminar a instalação.



D. O Setup Wizard (Assistente de configuração) pedir-lhe-á que escolha um modo sem fios. Clique no botão de opção **Infrastructure Mode** (Modo de infra-estrutura), se pretender que os computadores sem fios se liguem a computadores da rede com fios utilizando um ponto de acesso sem fios. Clique no botão de opção **Ad-Hoc Mode** (Modo ad hoc), se pretender que vários computadores sem fios se liguem directamente uns aos outros.

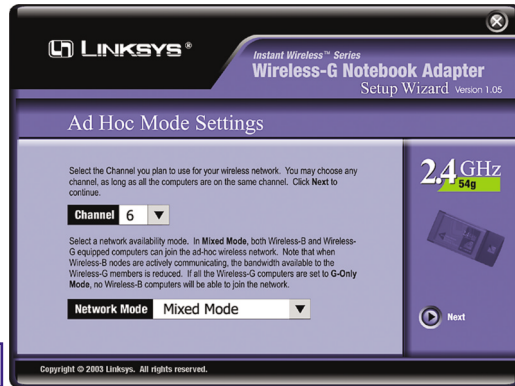
No campo **SSID**, introduza o **SSID** da rede sem fios. O SSID deverá ser idêntico para todos os dispositivos da rede. A predefinição é **linksys** (em minúsculas). Clique em **Next** (Seguinte).

Para segurança adicional, a Linksys recomenda a alteração do SSID predefinido para um nome exclusivo.



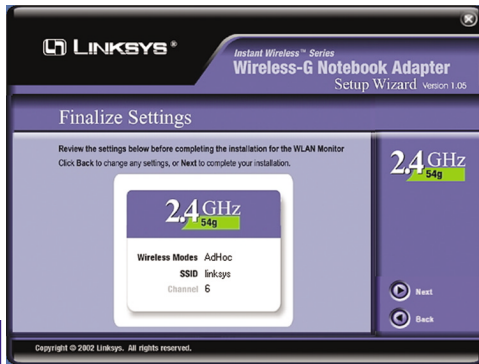
- E. Se tiver escolhido Infrastructure Mode (Modo de infraestrutura), vá para o **Passo F**. Se tiver escolhido Ad-Hoc Mode (Modo ad hoc), seleccione um canal na lista **Channel**. Os computadores na rede sem fios devem todos utilizar o mesmo canal para comunicar entre si. Se não tiver a certeza do canal que deve utilizar, seleccione o canal predefinido (canal 11). Em seguida seleccione o **Network Mode** (Modo de rede): **Mixed Mode** (Modo misto), para redes sem fios G e B, ou **G-Only Mode** (Modo só G), se não existirem utilizadores de rede sem fios-B.

E



- F. O Setup Wizard (Assistente de configuração) pedir-lhe-á que reveja as definições antes de começar a copiar os ficheiros. Clique em **Next** (Seguinte) se estiver satisfeito com as definições ou em **Back** (Anterior) para alterar as definições.

F



- G. Depois de os ficheiros terem sido copiados com êxito, será apresentada a Figura G. Clique no botão **Exit** (Sair).

Avance para o Passo 2.

G



Passo 2: Ligar a placa sem fios-G para portáteis

- A. Desligue o computador portátil.
- B. Localize uma ranhura CardBus disponível no computador portátil.
- C. Introduza a placa com o lado da etiqueta virado para cima, para que a placa fique bem encaixada na ranhura CardBus.



C

- D. Reinicie o computador portátil.
- E. O Windows começará a copiar os ficheiros de controladores para o computador. Se for pedido o CD-ROM do Windows original, introduza o CD-ROM e indique ao Windows a localização do CD-ROM adequada (por exemplo, D:\).

Utilizadores do Windows 98SE, Me e 2000: Parabéns! A instalação da Placa sem fios-G para portáteis está concluída.

Utilizadores do Windows XP: Avançar para o Passo 3.

Passo 3: Instalação e configuração de controladores para o Windows XP

Depois de ligar a placa ao computador, irá instalar o controlador.

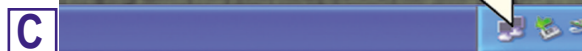
- A. O Windows XP detectará automaticamente a placa. Coloque o CD-ROM de configuração na unidade de CD-ROM. Clique no botão de opção junto a **Instalar o software automaticamente (recomendado)**. Em seguida, clique em **Seguinte**.



- B. Quando o Windows tiver concluído a instalação do controlador, clique em **Concluir**.

Nota: o Windows XP tem uma ferramenta de configuração incorporada. Utilize a Wireless Zero Configuration do Windows XP (localizada no tabuleiro do sistema na parte inferior do ecrã) para configurar a placa.

- C. Depois de instalar a placa, o ícone da Wireless Zero Configuration do Windows XP será apresentado no tabuleiro do sistema do computador. Faça duplo clique no ícone.

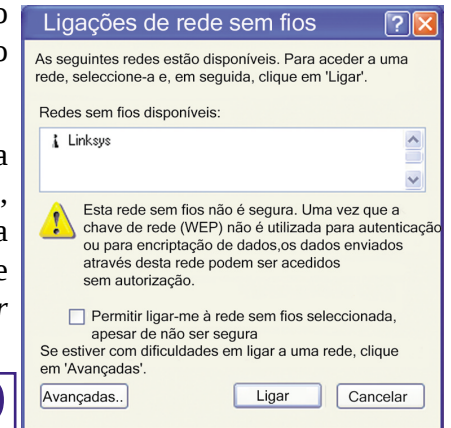


Nota: os passos D e E são as instruções e capturas de ecrã para o Windows XP com o Service Pack 1 instalado. Se não tiver instalado o Service Pack 1, seleccione a rede pretendida e clique no botão **Ligar**. Se a rede tiver a encriptação WEP activada, introduza a chave WEP no campo Chave de rede e, em seguida, clique no botão **Ligar**.

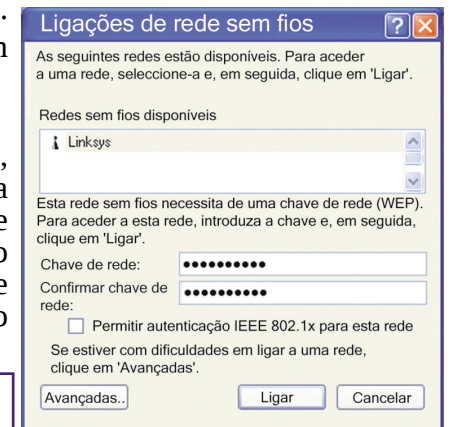
- D. O ecrã apresentado mostrará as redes sem fios disponíveis. Seleccione a rede pretendida.

Se a rede tiver a encriptação WEP activada, vá para o Passo E.

Se a rede não tiver a encriptação WEP activada, será apresentado o ecrã da Figura D. Certifique-se de que a caixa junto a *Permitir a ligação à rede sem fios seleccionada, apesar de não ser segura* está seleccionada. Em seguida, clique em **Ligar** e vá para o Passo F.

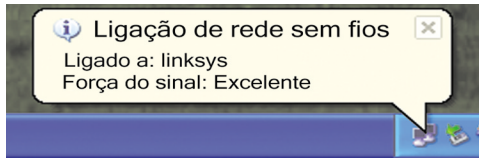


- E. Se o WEP estiver activado, será apresentado o ecrã da Figura E. Introduza a chave WEP da rede sem fios no campo *Chave de rede* e volte a introduzi-la no campo *Confirmar chave de rede*. Em seguida, clique em **Ligar**.



Importante: a Wireless Zero Configuration do Windows XP não suporta a utilização de uma frase-passe. Introduza a chave WEP exacta utilizada pelo ponto de acesso.

F. O ecrã da Figura F será apresentado se a ligação estiver activa.



Para obter mais informações sobre WEP, consulte a documentação do ponto de acesso ou visite www.linksys.com. Para obter mais informações sobre o funcionamento em rede sem fios num computador com Windows XP, introduza as palavras-chave **sem fios** no motor de procura do Windows XP.

Utilizadores do Windows XP: Parabéns! A instalação da Placa sem fios-G para portáteis está concluída.

Para obter informações adicionais ou ajuda para resolução de problemas, consulte o Manual do Utilizador (disponível em inglês) no CD-ROM de configuração. Também está disponível assistência através dos seguintes recursos:

Correio electrónico:

Europa ***europa-support@linksys.com***

América Latina ***latam-soporte@linksys.com***

Web site ***http://www.linksys.com/international***

Site de FTP ***ftp://ftp.linksys.com***

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- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

DECLARACIÓN DE CONFORMIDAD CE (EUROPA)

Linksys Group declara que los productos de la serie Instant Wireless® incluidos en la serie Instant Wireless cumplen las especificaciones que se detallan a continuación, según lo previsto en la directiva 89/336/EEC de la EMC y la directiva sobre bajo voltaje 73/23/EEC:

Requisitos EMC generales ETS 301489-17, 301 489-1 para equipos de radio.

Seguridad EN 609 50

Requisitos técnicos ETS 300-328-2 para equipos de radio

Nota: este equipo está pensado para uso en países de la Unión Europea y la EFTA. Es posible que el uso en el exterior se limite a ciertas frecuencias y/o se necesite una licencia para el funcionamiento. Para obtener más detalles, póngase en contacto con el departamento de asesoría legal de Linksys.

Nota: se considera que las combinaciones de niveles de potencia y antenas que tienen como consecuencia un nivel de potencia radiada superior a 100 mW no cumplen la directiva mencionada anteriormente y, por tanto, su uso no está permitido en la Comunidad Europea ni en los países que hayan adoptado la directiva europea 1995/5/EC R&TTE y/o la recomendación Rec 70.03 de la CEPT. Para obtener más detalles sobre combinaciones legales de niveles de potencia y antenas, póngase en contacto con el departamento de asesoría legal de Linksys.

Linksys Group vakuuttaa täten että Instant Wireless Wireless-G Network Adapter tyyppinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen. Linksys Group déclare que la carte réseau sans fil G est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.

Belgique B L'utilisation en extérieur est autorisé sur les canaux 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz).

Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.

France F: Bande de fréquence restreinte: seuls les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) doivent être utilisés en France.

Toute utilisation, qu'elle soit intérieure ou extérieure, est soumise à autorisation. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (tp://www.art-telecom.fr>) pour la procédure à suivre.

Francia F: banda de frecuencia restringida: en Francia sólo se pueden utilizar los canales 10, 11, 12, 13 (2457, 2462, 2467 y 2472 MHz respectivamente). Se necesita licencia para todas las instalaciones interiores y exteriores. Póngase en contacto con ART para obtener información sobre los procedimientos que se deben seguir.

Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.

Alemania D: se necesita licencia para las instalaciones exteriores. Consulte a su proveedor para obtener información sobre el procedimiento que debe seguir.

Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.

Italia I: se necesita licencia para uso interno. No se permite el uso con instalaciones externas.

Países bajos NL: se necesita licencia para instalaciones externas. Consulte a su proveedor para obtener información sobre el procedimiento que debe seguir.

Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure

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Para obtener información sobre asistencia técnica y registro del producto, póngase en contacto con nosotros en una de las direcciones siguientes:

Correo electrónico:

Europa europa-support@linksys.com

Latinoamérica latam-soporte@linksys.com

Página Web:

<http://www.linksys.com/international>

Contenido del paquete

- Un adaptador para ordenador portátil Wireless-G
- Un Setup Wizard CD-ROM (CD-ROM del asistente de configuración con la guía del usuario en inglés incluida)
- Una guía de instalación rápida en varios idiomas

Antes de empezar

La instalación del WPC54G varía según la versión de Windows.

- Para Windows 98 SE, Me y 2000, comience en el paso 1 y siga en el paso 2.
- Para Windows XP, comience en el paso 2 y siga en el paso 3.

Paso 1: Instalación y configuración del software para Windows 98 SE, Me y 2000

Nota para usuarios de Windows XP: diríjase directamente al paso 2.

A. Inserte el Setup Wizard CD-ROM (CD-ROM del asistente de configuración) en la unidad de CD-ROM. El asistente de configuración se debe ejecutar de forma automática y debe aparecer la pantalla *Welcome* (pantalla de bienvenida). Si no es así, haga clic en el botón **Inicio** y seleccione **Ejecutar**. En el campo que aparece, escriba **D:\setup.exe** (donde “D” es la letra de la unidad de CD-ROM).

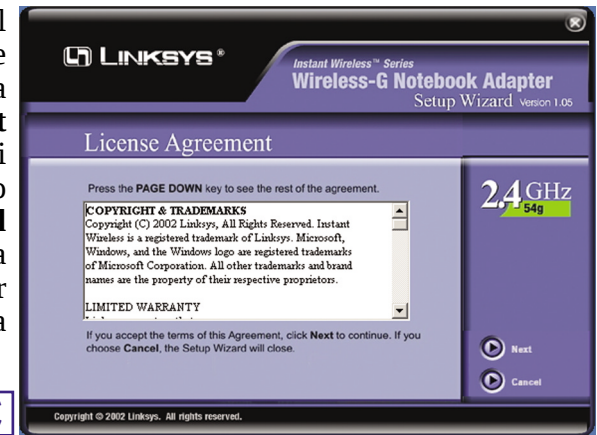
B. Haga clic en el botón **Install** (Instalar).

B



C. Una vez leído el acuerdo de licencia, haga clic en **Next** (Siguiente) si está de acuerdo o en **Cancel** (Cancelar) para dar por concluida la instalación.

C

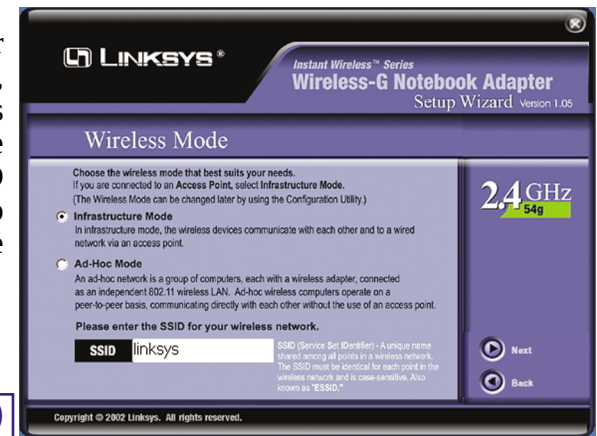


D. El asistente de configuración le solicita que seleccione un modo inalámbrico. Haga clic en el botón de radio **Infrastructure Mode** (Modo de infraestructura) si desea conectar los ordenadores inalámbricos a ordenadores de la red con cables mediante un punto de acceso inalámbrico. Haga clic en el botón de radio **Ad-Hoc Mode** (Modo ad-hoc) si desea conectar varios ordenadores inalámbricos en red.

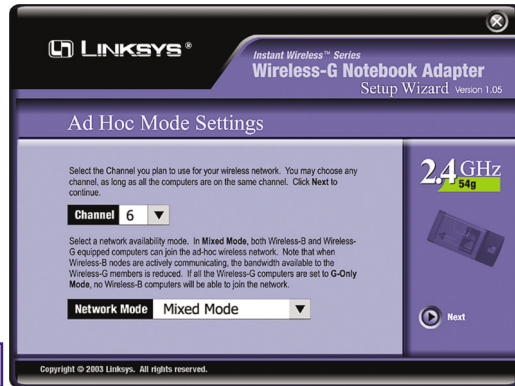
En el campo *SSID*, introduzca el **SSID** (Identificador del conjunto de servicios) de la red inalámbrica. El SSID debe ser idéntico en todos los dispositivos de la red. El parámetro predeterminado es **linksys** (todo minúsculas). Haga clic en **Next** (Siguiente).

Para mayor seguridad, Linksys recomienda que cambie el SSID predeterminado a un nombre único.

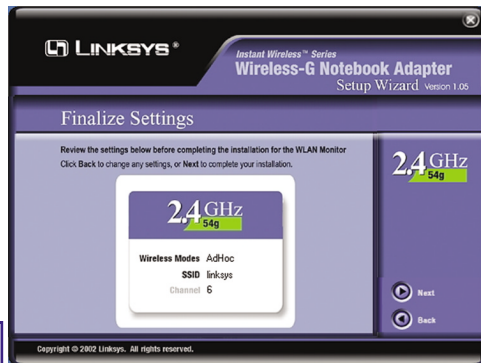
D



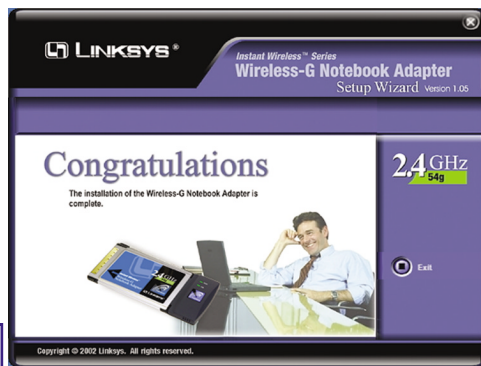
E. Si selecciona Infrastructure Mode (Modo de infraestructura), vaya al **paso F** ahora. Si selecciona Ad-Hoc Mode (Modo Ad-Hoc), elija un canal (**Channel**) de la lista que se ofrece. Todos los ordenadores de la red inalámbrica deben utilizar el mismo canal para establecer comunicación con el resto. Si no está seguro de qué canal debe utilizar, seleccione el predeterminado (canal 11). A continuación, seleccione el modo de red (**Network Mode**): **Mixed Mode** (Modo mixto), cuando es para usuarios de Wireless-G y Wireless-B o **G-Only Mode** (Modo sólo G) si no hay usuarios de Wireless-B. **E**



F. El asistente de configuración le solicita que revise los parámetros antes de comenzar a copiar archivos. Haga clic en **Next** (Siguiente) si está satisfecho con los parámetros o en **Back** (Atrás) para cambiarlos. **F**



G. Una vez copiados de forma correcta los archivos, aparece la figura G. Haga clic en el botón **Exit** (Salir).



Siga en el paso 2. **G**

Paso 2: Conexión del adaptador para ordenador portátil Wireless-G

A. Apague el ordenador portátil.

B. Busque una ranura CardBus disponible en el ordenador portátil.

C. Introduzca el adaptador con la etiqueta hacia arriba, de modo que encaje perfectamente en la ranura CardBus.



C

D. Reinicie el ordenador portátil.

E. Windows comienza a copiar los archivos del controlador en el ordenador. Si Windows solicita el CD-ROM original de Windows, insértelo e indique al sistema operativo la ubicación correcta del mismo (por ejemplo, D:\).

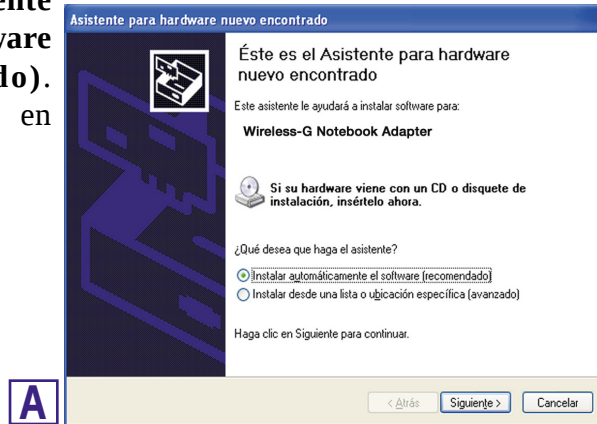
Usuarios de Windows 98 SE, Me y 2000: enhorabuena. Ha finalizado la instalación del adaptador para ordenador portátil Wireless-G.

Usuarios de Windows XP: siga en el paso 3.

Paso 3: Instalación y configuración del controlador para Windows XP

Una vez instalado el adaptador en el ordenador, instale el controlador.

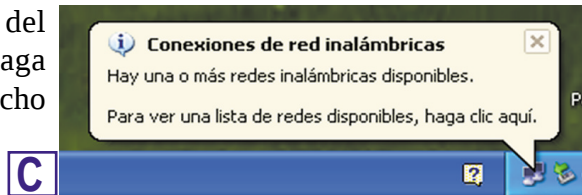
- A. Windows XP detecta el adaptador de forma automática. Introduzca el CD-ROM de configuración en la unidad de CD-ROM. Haga clic en el botón de radio situado junto a **Instalar automáticamente el software (recomendado)**. Haga clic en **Siguiente**.



- B. Una vez que Windows ha terminado de instalar el controlador, haga clic en **Finalizar**.

Nota: Windows XP incorpora una herramienta de configuración. Para configurar el adaptador, utilice la opción Configuración inalámbrica rápida en Windows XP (situada en la bandeja del sistema de la parte inferior de la pantalla).

- C. Una vez instalado el adaptador, el icono de configuración inalámbrica rápida de Windows XP aparece en la bandeja del sistema del ordenador. Haga doble clic en dicho icono.

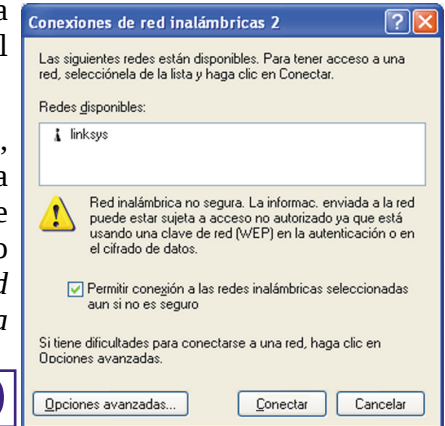


Nota: los pasos D y E son instrucciones y capturas de pantalla para Windows XP con Service Pack 1 instalado. Si no tiene Service Pack 1 instalado, seleccione la red que desea y haga clic en el botón **Conectar**. Si la red tiene activada la encriptación WEP, introduzca la clave WEP en el campo *Clave de red* y haga clic en el botón **Conectar**.

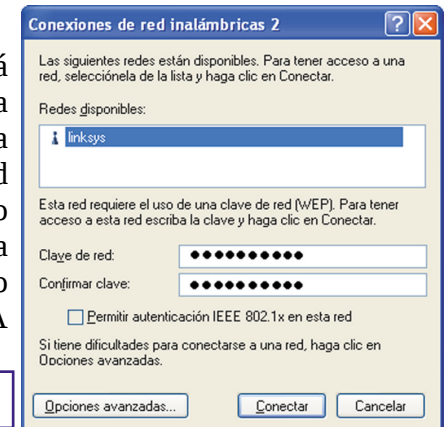
- D. La pantalla que aparece muestra todas las redes inalámbricas disponibles. Seleccione la que desee.

Si la red tiene activada la encriptación WEP, vaya al paso E.

Si no la tiene activada, aparece al pantalla de la figura D. Asegúrese de que el cuadro que aparece junto a *Permitir conectar a la red inalámbrica seleccionada aunque no sea segura* está activado. Haga clic en **Conectar** y vaya al paso F.



- E. Si la encriptación WEP está activada, aparece la pantalla de la figura E. Introduzca la clave WEP de la red inalámbrica en el campo *Clave de red* y vuelva a introducirla en el campo *Confirmar clave de red*. A continuación, haga clic en **Conectar**.



Nota importante: la configuración inalámbrica rápida de Windows XP no admite frases de paso. Introduzca la clave WEP exacta que utiliza el punto de acceso.

- F. La pantalla de la figura F aparece si la conexión está activa.



Para obtener más información sobre WEP, consulte la guía del usuario del punto de acceso o vaya a www.linksys.com. Para obtener más información sobre redes inalámbricas en un ordenador con Windows XP, introduzca la palabra clave **inalámbrica** en el motor de búsqueda de Windows XP.

Usuarios de Windows XP: enhorabuena.

Ha finalizado la instalación del adaptador para ordenador portátil Wireless-G.

Para obtener información adicional o ayuda para resolución de problemas, consulte la guía del usuario en inglés incluida en el CD-ROM de configuración. También puede obtener asistencia de estos recursos:

Correo electrónico:

Europa

europe-support@linksys.com

Latinoamérica

latam-soporte@linksys.com

Página Web

<http://www.linksys.com/international>

Sitio FTP

<ftp://ftp.linksys.com>



www.linksys.com

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Instant Wireless® Series

Wireless-G Notebook Adapter



Use this Guide to install the following:

WPC54G

User Guide

LINKSYS®

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FCC STATEMENT

The Instant Wireless® Wireless-G Notebook Adapter has been tested and found to comply with the specifications for a Class B digital device, pursuant to 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.

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 according to 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 is found 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

For product support and product registration, contact us at the addresses below:

E-mail	europa-support@linksys.com latam-soporte@linksys.com
Web	http://www.linksys.com/international

FCC Caution: Any change or modification to the product not expressly approved by Linksys could void the user's authority to operate the device.

FCC RF Radiation Exposure Statement

To comply with the FCC and ANSI C95.1 RF exposure limits, the antenna(s) for this device must comply with the following:

- Access points with 2.4 GHz or 5 GHz integrated antenna must operate with a separation distance of at least 20 cm from all persons using the cable provided and must not be co-located or operating in conjunction with any other antenna or transmitter.

End-users must be provided with specific operations for satisfying RF exposure compliance.

Note: Dual antennas used for diversity operation are not considered co-located.

Canadian Department of Communications Industry Canada (IC) Notice

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 et CNR-210 du Canada.

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

" Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence. "

EC DECLARATION OF CONFORMITY (EUROPE)

Linksys Group declares that the Instant Wireless® Series products included in the Instant Wireless® Series conform to the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC, EMC directive 89/336/EEC, and Low Voltage directive 73/23/EEC:

For 11Mbps, 2.4 GHz devices with 100 mW radios, the following standards were applied:

- ETS 300-826, 301 489-1 General EMC requirements for Radio equipment.
- EN 609 50 Safety
- ETS 300-328-2 Technical requirements for Radio equipment.

Caution: This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact local Authority for procedure to follow.

Note: Combinations of power levels and antennas resulting in a radiated power level of above 100 mW equivalent isotropic radiated power (EIRP) are considered as not compliant with the above mentioned directive and are not allowed for use within the European community and countries that have adopted the European R&TTE directive 1999/5/EC and/or the CEPT recommendation Rec 70.03.

For more details on legal combinations of power levels and antennas, contact Linksys Corporate Compliance.

- Linksys Group vakuuttaa täten että Instant Wireless® Wireless-G Notebook Adapter tyypinen laite on direktiivin 1999/5/EY, direktiivin 89/336/EEC ja direktiivin 73/23/EEC oleellisten vaatimusten ja sitä koskevien näiden direktiivien muiden ehtojen mukainen.
- Linksys Group déclare que la Instant Wireless® Wireless-G Notebook Adapter est conforme aux conditions essentielles et aux dispositions relatives à la directive 1999/5/EC, la directive 89/336/EEC, et à la directive 73/23/EEC.
- Belgique B L'utilisation en extérieur est autorisé sur le canal 11 (2462 MHz), 12 (2467 MHz), et 13 (2472 MHz). Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour une utilisation publique à l'extérieur de bâtiments, une licence de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.
- France F:
2.4 GHz Bande : les canaux 10, 11, 12, 13 (2457, 2462, 2467, et 2472 MHz respectivement) sont complètement libres d'utilisation en France (en utilisation intérieur). Pour ce qui est des autres canaux, ils peuvent être soumis à autorisation selon le département. L'utilisation en extérieur est soumis à autorisation préalable et très restreint.

2.4 GHz Band: only channels 10, 11, 12, 13 (2457, 2462, 2467, and 2472 MHz respectively) may be used freely in France for indoor use. License required for outdoor installations.

- Deutschland D: Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.
- Germany D: License required for outdoor installations. Check with reseller for procedure to follow.
- Italia I: E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire. L'uso per installazione in esterni non e' permessa.
- Italy I: License required for indoor use. Use with outdoor installations not allowed.
- The Netherlands NL License required for outdoor installations. Check with reseller for procedure to follow.
- Nederlands NL Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

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Chapter 1: Introduction

The Wireless-G Notebook Adapter

Wireless-G is the upcoming 54Mbps wireless networking standard that's almost five times faster than the widely deployed Wireless-B (802.11b) products found in homes, businesses, and public wireless hotspots around the country — but since they share the same 2.4GHz radio band, Wireless-G devices can also work with existing 11Mbps Wireless-B equipment. The new Wireless-G Notebook Adapter from Linksys has both standards built in, so you can connect your notebook to existing 802.11b infrastructure, and also the new screaming fast Wireless-G networks. The included Setup Wizard will walk you through configuring the adapter to your network's settings, step by step. Then just slide it into your notebook's PC Card slot and enjoy network access with your notebook computer, while retaining true mobility.

Once you're connected, you can keep in touch with your e-mail, access the Internet, and share files and other resources such as printers and network storage with other computers on the network, wherever you wander. At home, you can surf the web or use instant messaging to chat with friends while sitting out on the patio. You'll also be able to connect with any of the growing number of public wireless hotspots springing up in coffee shops, airport lounges, hotels and convention centers. And as those hotspots upgrade to the new high-speed Wireless-G standard, you'll be ready to take advantage of the increased speeds. Get connected to current-standard 802.11b networks today, and be prepared for the future with the Wireless-G Notebook Adapter from Linksys.

Features

- High-speed Wireless-G (draft 802.11g) networking for your notebook computer
- Data rates up to 54Mbps -- 5 times faster than Wireless-B (802.11b)
- Also interoperates with Wireless-B networks (at 11Mbps)
- Wireless security -- up to 128-bit WEP encryption

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Chapter 2: Planning Your Wireless Network

Network Topology

A wireless local area network (WLAN) is exactly like a regular local area network (LAN), except that each computer in the WLAN uses a wireless device to connect to the network. Computers in a WLAN share the same frequency channel and SSID, which is an identification name for wireless devices.

Ad-Hoc versus Infrastructure Mode

Unlike wired networks, wireless networks have two different modes in which they may be set up: **infrastructure** and **ad-hoc**. An infrastructure configuration is a WLAN and wired LAN communicating to each other through an access point. An ad-hoc configuration is wireless-equipped computers communicating directly with each other. Choosing between these two modes depends on whether or not the wireless network needs to share data or peripherals with a wired network or not.

If the computers on the wireless network need to be accessed by a wired network or need to share a peripheral, such as a printer, with the wired network computers, the wireless network should be set up in **infrastructure** mode. (See Figure 2-1.) The basis of infrastructure mode centers around an *access point*, which serves

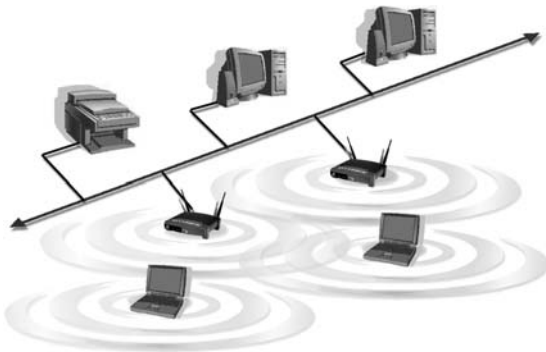


Figure 2-1

as the main point of communications in a wireless network. Access points transmit data to PCs equipped with wireless network cards, which can *roam* within a certain radial range of the access point. Multiple access points can be arranged to work in succession to extend the roaming range, and can be set up to communicate with your Ethernet (wired) hardware as well.

If the wireless network is relatively small and needs to share resources only with the other computers on the wireless network, then the **ad-hoc** mode can be used. (See Figure 2-2.) Ad-hoc mode allows computers equipped with wireless transmitters and receivers to communicate directly with each other, eliminating the need for an access point. The drawback of this mode is that, in Ad-Hoc mode, wireless-equipped computers are not able to communicate with computers on a wired network. And, of course, communication between the wireless-equipped computers is limited by the distance and interference directly between them.



Figure 2-2

Chapter 3: Getting to Know the Wireless-G Notebook Adapter

The Adapter's LEDs



Figure 3-1

Power	<i>Green.</i> The Power LED lights up when the Adapter is powered on.
Link	<i>Green.</i> The Link LED lights up and stays solid when the Adapter is inserted correctly and a link is established with the Notebook. The LED flashes when data is transmitted or received..

Chapter 4: Software Installation and Configuration for Windows 98SE, Me, and 2000

Overview

The Wireless-G Notebook Adapter Setup Wizard will guide you through the installation procedure for Windows 98SE, Me, and 2000. The Setup Wizard will install the WLAN Monitor and driver, as well as configure the Adapter.



Important for Windows XP users: Do **NOT** run the Setup Wizard. Proceed directly to "Chapter 5: Hardware Installation."



Important for Windows 98SE, Me, and 2000 users: You must run the Setup Wizard to install the software before installing the hardware.

Insert the **Setup Wizard CD-ROM** into your CD-ROM drive. The Setup Wizard should run automatically, and Figure 4-1 should appear. If it does not, click the **Start** button and choose **Run**. In the field that appears, enter **D:\setup.exe** (if "D" is the letter of your CD-ROM drive).

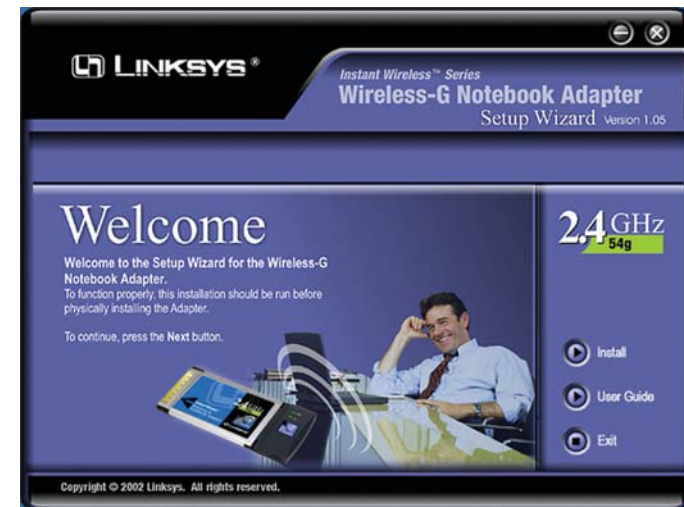


Figure 4-1

Setup Wizard Instructions for Windows 98SE, Me, and 2000

1. To install the Adapter, click the **Install** button on the *Welcome* screen, Figure 4-1. Click **User Guide** to view the User Guide or click **Exit** to exit the Setup Wizard.
2. After reading the License Agreement, click the **Next** button to continue the installation, or click the **Cancel** button to end the installation.

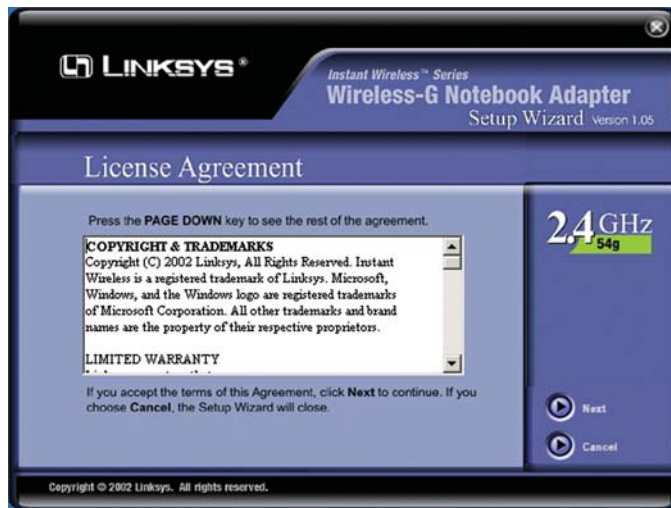


Figure 4-2

Wireless-G Notebook Adapter

3. The Setup Wizard will ask you to choose a wireless mode. Click the **Infrastructure Mode** radio button if you want your wireless computers to network with computers on your wired network using a wireless access point. Click the **Ad-Hoc Mode** radio button if you want multiple wireless computers to network directly with each other. Do not use the Ad-Hoc mode if you want your wireless computers to communicate with computers on your wired network.

In the *SSID* field, enter the **SSID** of your wireless network. The SSID must be identical for all devices in the network. The default setting is **linksys** (all lowercase). Click the **Next** button, or click the **Back** button to return to the previous page.

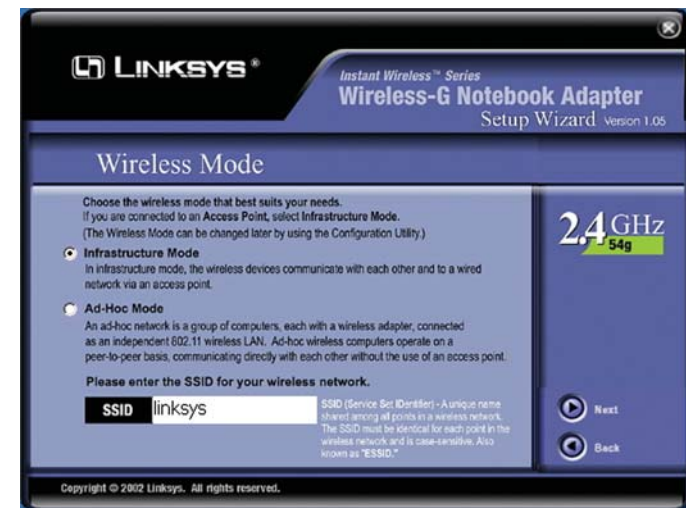


Figure 4-3

4. If you chose Infrastructure Mode, go to **Step 5** now. If you chose Ad-Hoc Mode, select the correct operating channel for your network from the *Channel* drop-down menu. Then, select the *Network Mode* from the drop-down menu. Click the **Next** button, and go to **Step 4**. Click the **Back** button to change any settings.

Channel - The channel you choose should match the channel set on the other devices in your wireless network. If you are unsure about which channel to use, select the default channel (Channel 11).

Network Mode - Select **Mixed Mode**, and both Wireless-G and Wireless-B computers will be allowed on the network, but the speed will be reduced. Select **G-Only Mode** for maximum speed, but no Wireless-B users will be allowed on the network.

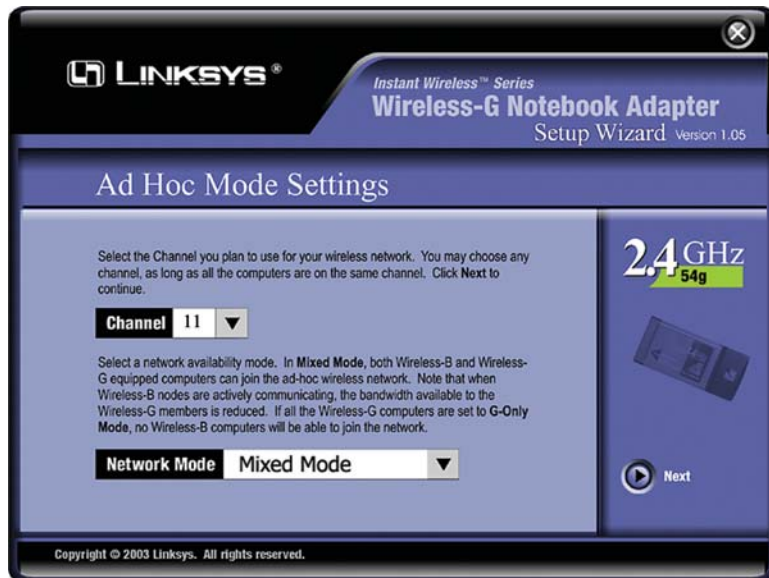


Figure 4-4

5. The Setup Wizard will ask you to review your settings before it starts to copy files. Click the **Next** button to save these settings, or click the **Back** button to change any settings.

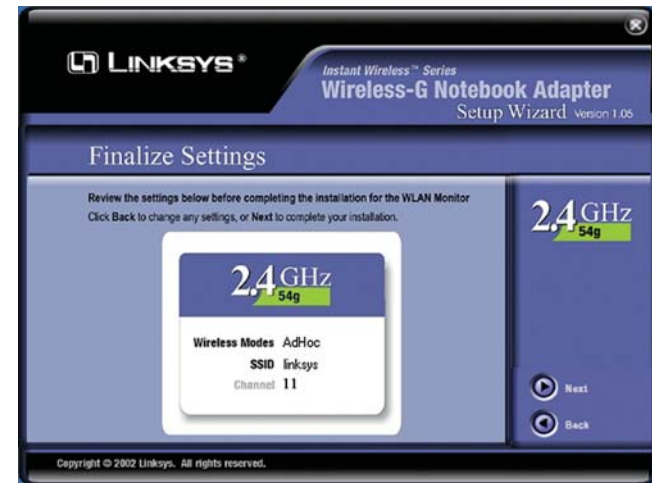


Figure 4-5

6. After the files have been successfully copied, the screen in Figure 4-6 will appear. Click the **Exit** button.

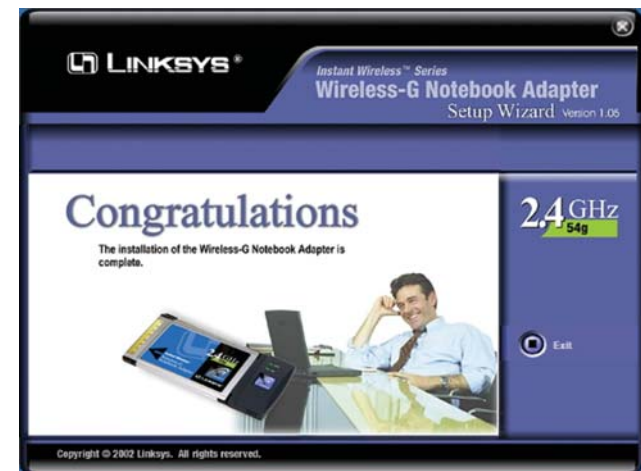


Figure 4-6

Proceed to “Chapter 5: Hardware Installation.”

Chapter 5: Hardware Installation



Important for Windows 98SE, Me, and 2000 users: You must run the Setup Wizard to install the software before installing the hardware.



Important for Windows XP users: You must install the Adapter's hardware before installing the software.

1. Turn off your notebook PC.
2. Locate an available CardBus slot on your notebook PC.
3. With the Adapter's label facing up, as shown in Figure 5-1, slide the Adapter completely into the CardBus slot.
4. Restart your notebook PC.



Figure 5-1

5. Windows will begin copying the driver files to your computer. If Windows asks you for the original Windows CD-ROM, insert the CD-ROM, and direct Windows to its proper location (e.g., D:\).

If your PC is using Windows 98SE, Me, or 2000, proceed to the next section, “Chapter 7: Using the WLAN Monitor for Windows 98SE, Me, and 2000.”

If your PC is using Windows XP, proceed to “Chapter 6: Driver Installation and Configuration for Windows XP.”

Chapter 6: Driver Installation and Configuration for Windows XP

Overview

After inserting the Adapter into your notebook, you will install the driver and configure the Adapter.

Driver Installation for Windows XP

1. Windows XP will automatically detect the Adapter. Insert the Setup CD-ROM into the CD-ROM drive. Click the radio button next to **Install the software automatically (Recommended)**. Then click the **Next** button.



Figure 6-1

2. When Windows has finished installing the driver, click the **Finish** button.



Figure 6-2

You have now completed the driver installation for the Adapter. To configure the Adapter, proceed to the next section, “Windows XP Wireless Zero Configuration.”

Windows XP Wireless Zero Configuration



For Windows XP users: Windows XP has a built-in configuration tool. Use Windows XP Wireless Zero Configuration (in the system tray at the bottom of your screen) to configure the Adapter.

1. After installing the Adapter, the Windows XP Wireless Zero Configuration icon will appear in your computer's system tray (see Figure 6-3). Double-click the icon.



Figure 6-3

2. The screen that appears will show any available wireless network. Select the network you want.

If this network has WEP encryption enabled, go to step 3. If this network does not have WEP encryption enabled, then the screen in Figure 6-4 will appear. Check the box next to *Allow me to connect to the selected wireless network, even though it is not secure.* Then click the **Connect** button and go to step 4.

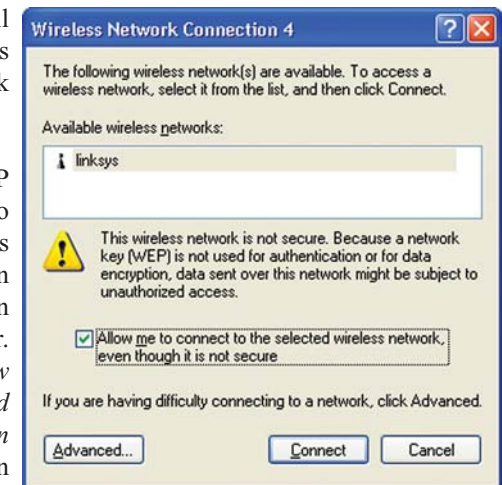


Figure 6-4



Note: In Steps 2 and 3, these are the instructions and screenshots for Windows XP with Service Pack 1 installed. If you have not installed Service Pack 1, select the network you want, and click the **Connect** button. If the network has WEP encryption enabled, enter the WEP key in the *Network key* field, and then click the **Connect** button.

3. The screen in Figure 6-5 will appear. Enter the WEP key of your wireless network in the *Network key* field, and re-enter it in the *Confirm network key* field. Click the **Connect** button.



Note: Wireless Zero Configuration does not support the use of a passphrase. Enter the exact WEP key used by your access point.

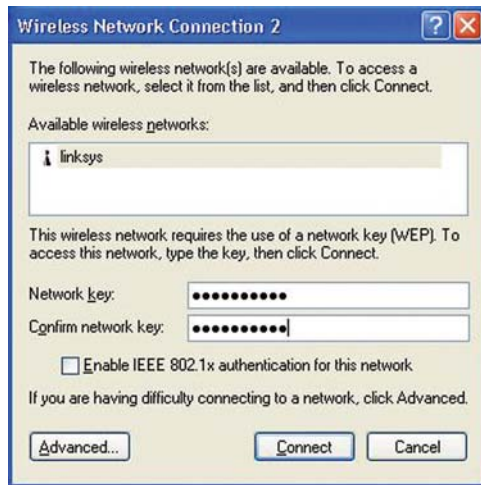


Figure 6-5

4. The screen in Figure 6-6 will appear if your connection is active.



Figure 6-6

For more information about WEP, refer to your access point's documentation, or visit www.linksys.com.

For more information about wireless networking on a Windows XP computer, enter the keyword **wireless** in the Windows XP search engine.

Congratulations!

Your notebook is now connected to your wireless network.

Chapter 7: Using the WLAN Monitor for Windows 98SE, Me, and 2000

Overview

Use the WLAN Monitor to check the link information, search for available wireless networks, or create profiles that hold different configuration settings.

Accessing the WLAN Monitor

After installing the Adapter, the Wireless-G Notebook Adapter WLAN Monitor icon will appear in your system tray. Double-click the icon (see Figure 7-1).

The *Link Information* screen will appear. From this screen, you can find out how strong the current wireless signal is and how good the connection's quality is. You can also click the *More Information* button to view additional status information about the current wireless connection. To search for available wireless networks, click the **Site Survey** tab. To perform configuration changes, click the **Profiles** tab.



Figure 7-1



Figure 7-2

Link Information

The *Link Information* screen displays signal strength and link quality information about the current connection and provides a button to click for additional status information.



Figure 7-3

Ad-Hoc Mode or **Infrastructure Mode** - The screen indicates whether the Adapter is currently working in ad-hoc or infrastructure mode.

Signal Strength - The Signal Strength bar indicates signal strength, from 0 to 100%.

Link Quality - The Link Quality bar indicates the quality of the wireless network connection, from 0 to 100%.

Click the **More Information** button to view more information about the wireless network connection.

Click the **X** (Close) button in the upper right corner to exit the WLAN Monitor.

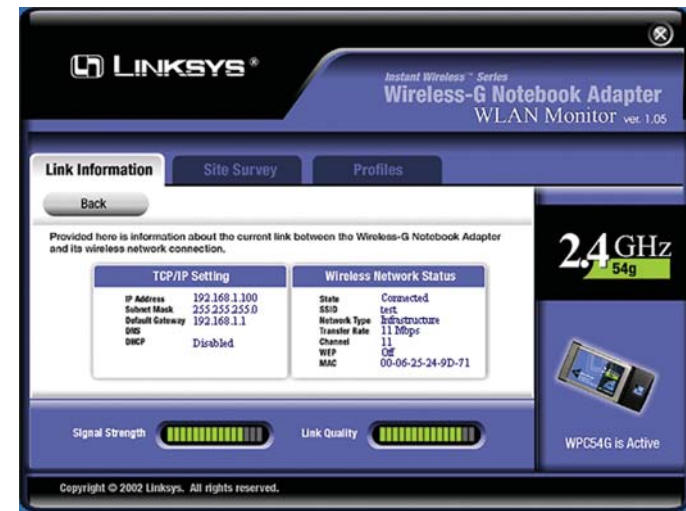


Figure 7-4

TCP/IP Setting

IP Address - The IP Address of the Adapter.

Subnet Mask - The Subnet Mask of the Adapter.

Default Gateway - The Default Gateway address of the Adapter.

DHCP - The status of the DHCP client.

DNS - The DNS address of the Adapter.

Wireless Network Status

State - The status of the wireless network connection.

SSID - The unique name of the wireless network.

Wireless Mode - The mode of the wireless network currently in use.

Transfer Rate - The data transfer rate of the current connection.

Channel - The channel to which the wireless network devices are set.

WEP - The status of the WEP encryption security feature.

MAC - The MAC address of the wireless network's access point.

Signal Strength - The Signal Strength bar indicates signal strength, from 0 to 100%.

Link Quality - The Link Quality bar indicates the quality of the wireless network connection, from 0 to 100%.

Click the **Back** button to return to the initial *Link Information* screen. Click the **X** (Close) button in the upper right corner to exit the WLAN Monitor.

Site Survey

The *Site Survey* screen displays a list of infrastructure and ad-hoc networks available for connection.

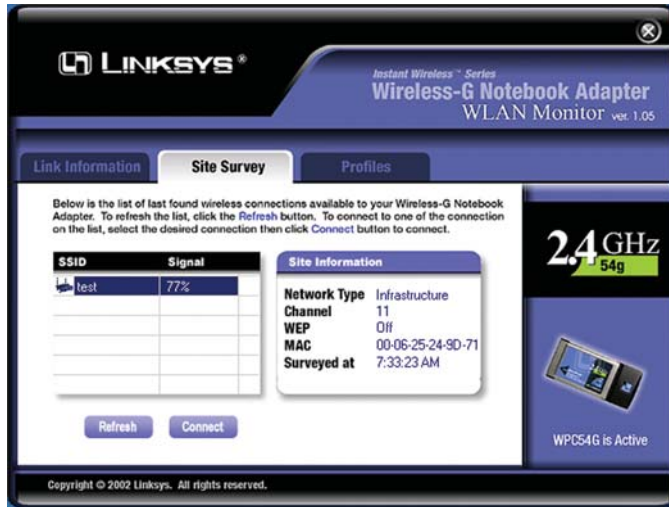


Figure 7-5

SSID - The SSID or unique name of the wireless network.

Signal - The percentage of signal strength, from 0 to 100%.

Site Information

Wireless Mode - The mode of the wireless network currently in use.

Channel - The channel to which the wireless network devices are set.

WEP - The status of the WEP encryption security feature.

MAC - The MAC address of the wireless network's access point.

Surveyed at - The time at which the wireless network was scanned.

Refresh - Click the **Refresh** button to perform a new search for wireless devices.

Connect - To connect to one of the networks on the list, select the wireless network, and click the **Connect** button. If the wireless network has WEP encryption enabled, you will see the screen shown in Figure 7-6.

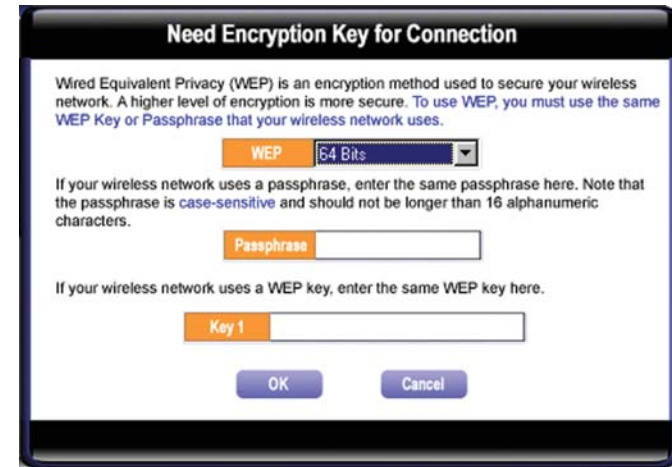


Figure 7-6

In the *WEP* drop-down box, select the type of WEP encryption used by the wireless network: **64-bit**, or **128-bit** WEP.

If the wireless network uses a passphrase, enter the passphrase in the *Passphrase* field. If the wireless network uses a WEP key, enter the WEP key in the *Key 1* field.

Click the **OK** button to complete the network connection and return to the *Site Survey* screen, or click the **Cancel** button to cancel the network connection and return to the *Site Survey* screen.

On the *Site Survey* screen, click the **X** (Close) button in the upper right corner to exit the WLAN Monitor.

Profiles

The *Profiles* screen lets you save different configuration profiles for different network setups. You can also import or export profiles. The default profile holds the initial configuration saved when you ran the Setup Wizard.

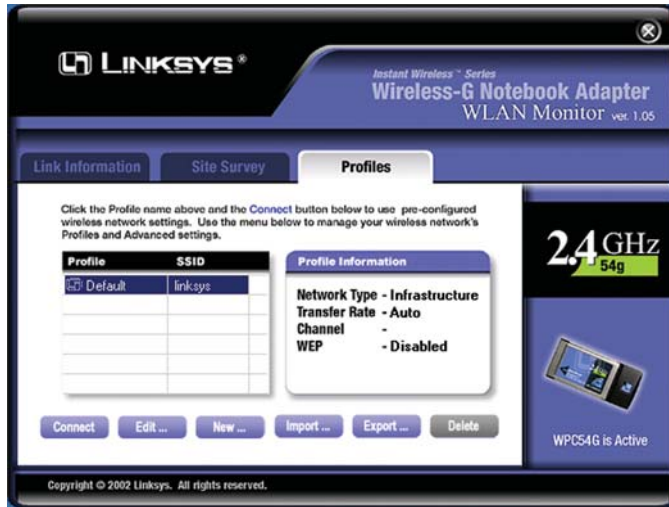


Figure 7-7

Profile - Name of the connection profile.

SSID - The wireless network's unique name, as set in the connection profile.

Profile Information

Network Type - The mode of the wireless network currently in use.

Transfer Rate - The data transfer rate of the current connection. (In *Auto* mode, the Adapter dynamically shifts to the fastest data transfer rate possible at any given time.)

Channel - The channel to which the wireless network devices are set.

WEP - The status of the WEP encryption security feature.

Connect - To connect to a wireless network using a specific profile, select the profile, and click the **Connect** button.

Edit - Select a profile, and click the **Edit** button to change an existing profile.

New - Click the **New** button to create a new profile. See the next section, "Creating a New Profile," for detailed instructions.

Wireless-G Notebook Adapter

Import - Click the **Import** button to import a profile that has been saved in another location. Select the appropriate file, and click the **Open** button.

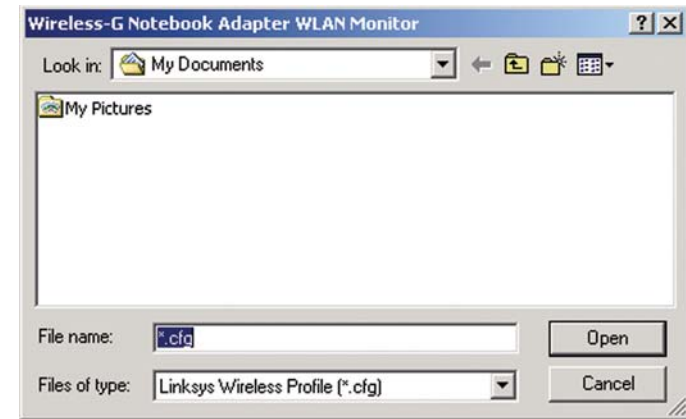


Figure 7-8

Export - To save the profile(s) in a different location, click the **Export** button. Direct Windows to the appropriate folder, and click the **OK** button.



Figure 7-9



Note: If you have more than one profile, all profiles will be automatically selected and exported to the same folder.

Delete - Click the **Delete** button to delete a profile.

Click the **X** (Close) button in the upper right corner to exit the WLAN Monitor.

Creating a New Profile

1. On the *Profiles* screen, click the **New** button to create a new profile.

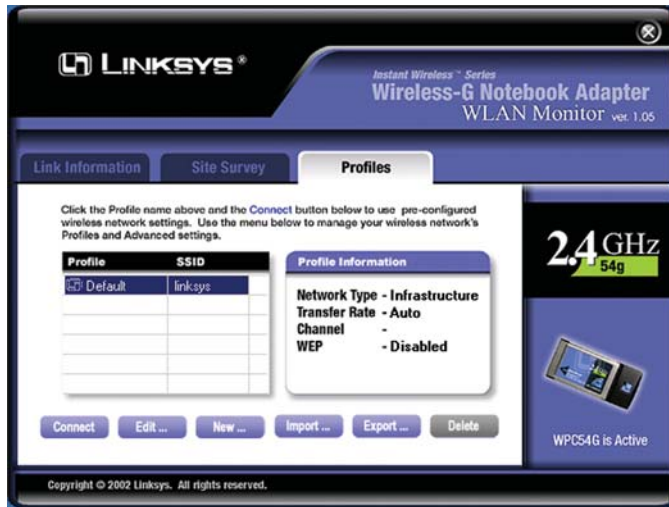


Figure 7-10

2. When the *Create connection profile* screen appears, enter a name for the new profile. Click **OK** to save the profile name or click **Cancel** to return to the previous screen.



Figure 7-11

2. The *Choose a network type* screen shows a choice of two wireless modes. Click the **Infrastructure Mode** radio button if you want your wireless computers to communicate with computers on your wired network via a wireless access point. Click the **Ad-Hoc Mode** radio button if you want multiple wireless computers to communicate directly with each other. Click the **Next** button to continue or the **Back** button to return to the previous screen.

Infrastructure Mode - This mode allows wireless and wired networks to communicate through an access point.

Ad-Hoc Mode - This mode allows wireless-equipped computers to communicate directly with each other. No access point is used.

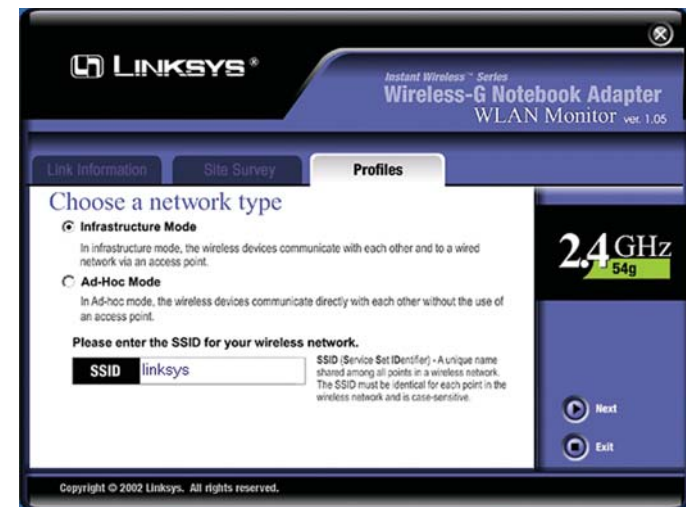


Figure 7-12

- The *Wireless Settings* screen will appear. If you chose Infrastructure Mode, go to **Step 4** now. If you chose Ad-Hoc Mode, select the correct operating channel for your network from the *Channel* drop-down menu. Then, select the *Network Mode* from the drop-down menu. Click the **Next** button, and go to **Step 4**. Click the **Back** button to change any settings.

Channel - The channel you choose should match the channel set on the other devices in your wireless network. If you are unsure about which channel to use, select the default channel (Channel 11).

Network Mode - Select **Mixed Mode**, and both Wireless-G and Wireless-B computers will be allowed on the network, but the speed will be reduced. Select **G-Only Mode** for maximum speed, but no Wireless-B users will be allowed on the network.

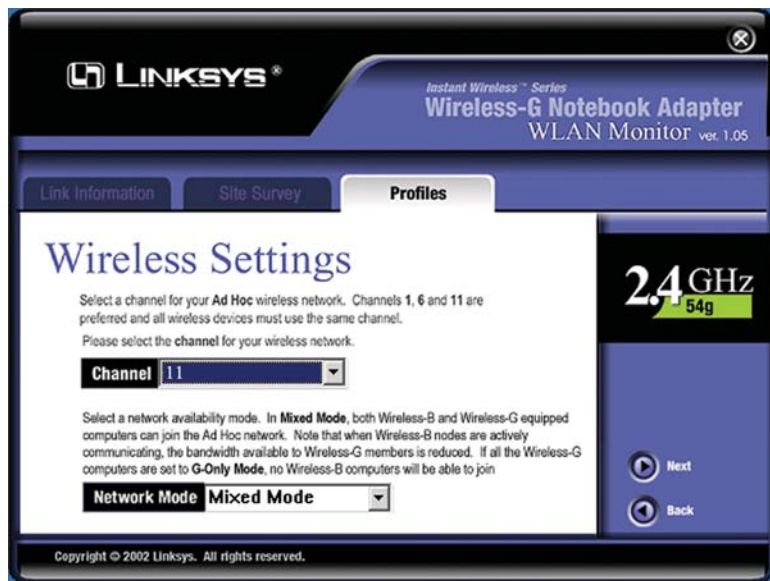


Figure 7-13

- The *Network Setting* screen will appear.

If your network has a DHCP server, click the radio button next to **Obtain an IP address automatically (DHCP)**. Click the **Next** button to continue, or click the **Back** button to return to the previous screen. Then go to **Step 5**.

If your network does not have a DHCP server, click the radio button next to **Specify the IP address**. Enter an **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS** appropriate for your network. Enter each address in this format: **xxx.xxx.xxx.xxx** (the x's represent the numbers that make up each address). You must specify the IP Address and Subnet Mask on this screen. If you are unsure about the Default Gateway and DNS addresses, then leave these fields alone.

Click the **Next** button to continue or the **Back** button to return to the previous screen. Then go to **Step 5**.

IP Address - This IP Address must be unique to your network.

Subnet Mask - The Adapter's Subnet Mask must be the same as your wired network's Subnet Mask.

Default Gateway - Enter the IP address of your network's Gateway here.

DNS - Enter the DNS addresses of your Ethernet (wired) network here.

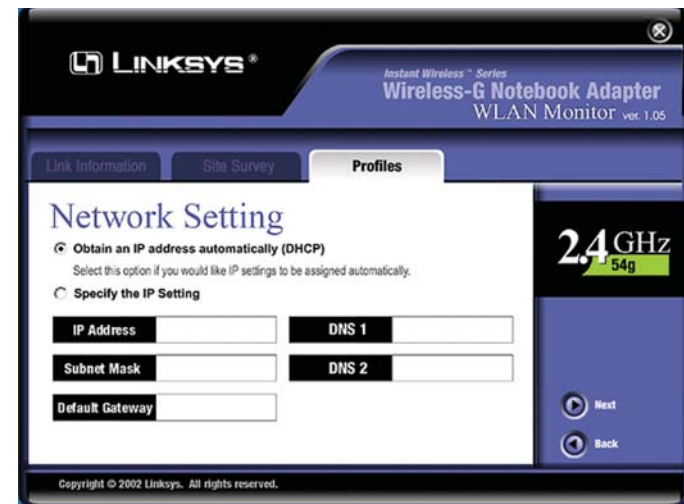


Figure 7-14

- The *Security Settings* screen will appear. Enable or disable Wired Equivalent Privacy (WEP) encryption for your wireless network. If you enable WEP, enter a Passphrase or WEP key. Click the **Next** button to continue or the **Back** button to return to the previous screen.

WEP (Disabled/64-bit WEP/128-bit WEP) - If you do not want to use WEP encryption, choose **Disabled**. To use WEP encryption (recommended to increase network security), select **64-bit** or **128-bit WEP** from the drop-down menu, and enter either a Passphrase or WEP key.

Passphrase - Instead of manually entering WEP keys, you can enter a Passphrase, so that a WEP key is automatically generated. It is case-sensitive and should not be longer than 16 alphanumeric characters. This passphrase must match the passphrase of your wireless network and is compatible with other Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key(s) manually on those products.)

Key 1 - This WEP key must match the WEP key of your wireless network. If you are using 64-bit WEP encryption, then the key must consist of exactly 10 hexadecimal characters. If you are using 128-bit WEP encryption, then the key must consist of exactly 26 hexadecimal characters. Valid hexadecimal characters are “0” to “9” and “A” to “F”.

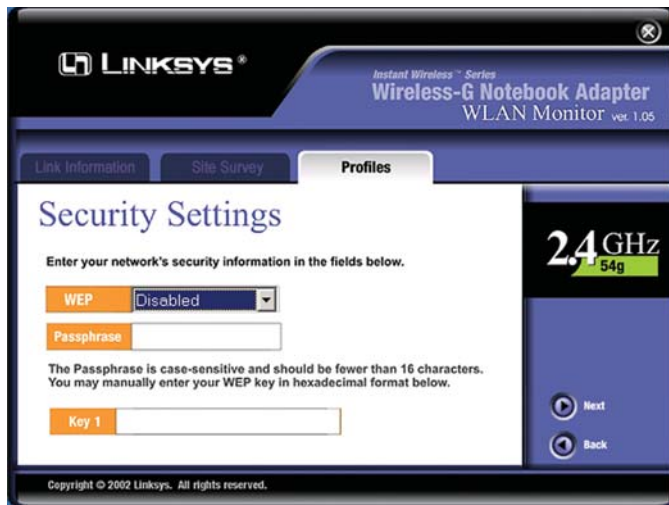


Figure 7-15

- The *Confirm New Settings* screen will appear. To save the new settings, click the **Yes** button. To cancel the settings and return to the *Profiles* screen, click the **No** button. To edit the new settings, click the **Back** button.



Figure 7-16

- The *Congratulations* screen will appear next. Click **Activate new settings now** to implement the new settings immediately and return to the *Link Information* screen. Click **Activate new settings later** to keep the current settings active, and return to the *Profiles* screen so that you can edit your profile or create another profile.



Figure 7-17

You have successfully created a connection profile. Click the X (Close) button in the upper right corner to exit the WLAN Monitor.

Appendix A: Troubleshooting

Common Problems and Solutions

This chapter provides solutions to problems that may occur during the installation and operation of the Wireless-G Notebook Adapter. Read the descriptions below to solve your problems. If you can't find an answer here, check the Linksys website at www.linksys.com.

1. My computer does not recognize the Adapter.

- Make sure the Adapter is properly inserted into the CardBus slot. Note that the Adapter can be inserted either way, but is correctly only when it is inserted so that the "Instant Wireless" logo on the front of the Adapter cannot be seen. If in doubt, try inserting the Adapter both ways. The Adapter will slide in further when it is correct.

2. The Adapter does not work properly.

- Reinsert the Adapter into your notebook's CardBus slot. A beep should be heard if the Adapter is properly inserted.
- For non-Windows environments, make sure that a PCMCIA card service driver is installed on your PC.
- Open the **Control Panel** and click the **PC Card**. Check whether it has a PCMCIA card in one of the sockets or not. If you find the Adapter in one of the sockets, it means that the Adapter has been detected properly. If you see a yellow question mark, the resources are in conflict.
- Right-click **My Computer** and select **Properties**. Select **Device Manager** and click the **Network Adapter**. You will find the Wireless-G Notebook Adapter if it is installed successfully. If you see the yellow exclamation mark, the resources are in conflict. Click **PCMCIA card** and then click **PCMCIA card service**. You will see the status of the Adapter. If there is a yellow question mark please check the following:
 - Make sure that your notebook has a free IRQ.
 - Make sure that you have inserted the right Adapter and installed the proper driver.

If the Adapter does not function after attempting the above steps, remove the Adapter and do the following:

- Uninstall the driver software from your PC.
- Restart your PC and repeat the hardware and software installation as specified in this User Guide.

3. I cannot communicate with a wired computer linked via an access point in the infrastructure configuration.

- Make sure that the notebook PC is powered on.
- Make sure that the Adapter is configured with the same SSID and security options as the other computers in the infrastructure configuration.

Frequently Asked Questions

Can I run an application from a remote computer over the wireless network?

This will depend on whether or not the application is designed to be used over a network. Consult the application's user guide to determine if it supports operation over a network.

Can I play computer games with other members of the wireless network?

Yes, as long as the game supports multiple players over a LAN (local area network). Refer to the game's user guide for more information.

What is the IEEE 802.11b standard?

It is one of the IEEE standards for wireless networks. The 802.11b standard allows wireless networking hardware from different manufacturers to communicate, provided that the hardware complies with the 802.11b standard. The 802.11b standard states a maximum data transfer rate of 11Mbps and an operating frequency of 2.4GHz.

What IEEE 802.11b features are supported?

The product supports the following IEEE 802.11b functions:

- CSMA/CA plus Acknowledge protocol
- Multi-Channel Roaming
- Automatic Rate Selection
- RTS/CTS feature
- Fragmentation
- Power Management

What is ad-hoc mode?

When a wireless network is set to ad-hoc mode, the wireless-equipped computers are configured to communicate directly with each other. The ad-hoc wireless network will not communicate with any wired network.

What is infrastructure mode?

When a wireless network is set to infrastructure mode, the wireless network is configured to communicate with a wired network through a wireless access point.

What is roaming?

Roaming is the ability of a portable computer user to communicate continuously while moving freely throughout an area greater than that covered by a single access point. Before using the roaming function, the workstation must make sure that it is the same channel number with the access point of dedicated coverage area.

To achieve true seamless connectivity, the wireless LAN must incorporate a number of different functions. Each node and access point, for example, must always acknowledge receipt of each message. Each node must maintain contact with the wireless network even when not actually transmitting data. Achieving these functions simultaneously requires a dynamic RF networking technology that links access points and nodes. In such a system, the user's end node undertakes a search for the best possible access to the system. First, it evaluates such factors as signal strength and quality, as well as the message load currently being carried by each access point and the distance of each access point to the wired backbone. Based on that information, the node next selects the right access point and registers its address. Communications between end node and host computer can then be transmitted up and down the backbone.

As the user moves on, the end node's RF transmitter regularly checks the system to determine whether it is in touch with the original access point or whether it should seek a new one. When a node no longer receives acknowledgment from its original access point, it undertakes a new search. Upon finding a new access point, it then re-registers, and the communication process continues.

What is ISM band?

The FCC and their counterparts outside of the U.S. have set aside bandwidth for unlicensed use in the ISM (Industrial, Scientific and Medical) band. Spectrum in the vicinity of 2.4 GHz, in particular, is being made available worldwide. This presents a truly revolutionary opportunity to place convenient high-speed wireless capabilities in the hands of users around the globe.

What is Spread Spectrum?

Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communications systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the

case of narrowband transmission, but the trade-off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread-spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

What is DSSS? What is FHSS? And what are their differences?

Frequency-Hopping Spread-Spectrum (FHSS) uses a narrowband carrier that changes frequency in a pattern that is known to both transmitter and receiver. Properly synchronized, the net effect is to maintain a single logical channel. To an unintended receiver, FHSS appears to be short-duration impulse noise. Direct-Sequence Spread-Spectrum (DSSS) generates a redundant bit pattern for each bit to be transmitted. This bit pattern is called a chip (or chipping code). The longer the chip, the greater the probability that the original data can be recovered. Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the radio can recover the original data without the need for retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers.

Would the information be intercepted while transmitting on air?

WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent security feature of scrambling. On the software side, WLAN offers the encryption function (WEP) to enhance security and access control.

What is WEP?

WEP is Wired Equivalent Privacy, a data privacy mechanism based on a 64-bit or 128-bit shared key algorithm, as described in the IEEE 802.11 standard.

Appendix B: Glossary

802.11b - One of the IEEE standards for wireless networking hardware. Products that adhere to a specific IEEE standard will work with each other, even if they are manufactured by different companies. The 802.11b standard specifies a maximum data transfer rate of 11Mbps, an operating frequency of 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.

802.11g - Refers to the proposed extension of the IEEE 802.11 standard for wireless networking, which has not been ratified by IEEE. The draft 802.11g specifications used by Linksys specifies a maximum data transfer rate of 54Mbps using OFDM modulation, an operating frequency of 2.4GHz, backward compatibility with IEEE 802.11b devices and WEP encryption for security.

Ad-hoc Network - An ad-hoc network is a group of computers, each with a wireless adapter, connected as an independent 802.11 wireless LAN. Ad-hoc wireless computers operate on a peer-to-peer basis, communicating directly with each other without the use of an access point. Ad-hoc mode is also referred to as an Independent Basic Service Set (IBSS) or as peer-to-peer mode, and is useful at a departmental scale or SOHO operation.

CTS (Clear To Send) - An RS-232 signal sent from the receiving station to the transmitting station that indicates it is ready to accept data.

Default Gateway - The router used to forward all traffic that is not addressed to a station within the local subnet.

DHCP (Dynamic Host Configuration Protocol) - A protocol that lets network administrators manage centrally and automate the assignment of Internet Protocol (IP) addresses in an organization's network. Using the Internet's set of protocol (TCP/IP), each machine that can connect to the Internet needs a unique IP address. When an organization sets up its computer users with a connection to the Internet, an IP address must be assigned to each machine. Without DHCP, the IP address must be entered manually at each computer and, if computers move to another location in another part of the network, a new IP address must be entered. DHCP lets a network administrator supervise and distribute IP addresses from a central point and automatically sends a new IP address when a computer is plugged into a different place in the network.

DHCP uses the concept of a "lease" or amount of time that a given IP address will be valid for a computer. The lease time can vary depending on how long a user is likely to require the Internet connection at a particular location. It's especially useful in education and other environments where users change frequently. Using very short leases, DHCP can dynamically reconfigure networks in which there are more computers than there are available IP addresses.

DHCP supports static addresses for computers containing Web servers that need a permanent IP address.

DNS - The domain name system (DNS) is the way that Internet domain name are located and translated into Internet Protocol (IP) addresses. A domain name is a meaningful and easy-to-remember "handle" for an Internet address.

DSSS (Direct-Sequence Spread Spectrum) - DSSS generates a redundant bit pattern for all transmitted data. This bit pattern is called a chip (or chipping code). Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the receiver can recover the original data without the need for retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers. However, to an intended receiver (i.e. another wireless LAN endpoint), the DSSS signal is recognized as the only valid signal, and interference is inherently rejected (ignored).

Dynamic IP Address - An IP address that is automatically assigned to a client station in a TCP/IP network, typically by a DHCP server. Network devices that serve multiple users, such as servers and printers, are usually assigned static IP addresses.

ESS (Extended Service Set) - A set of more than two or more BSSs (multiple access points) forming a single network.

Firmware - Code that is written onto read-only memory (ROM) or programmable read-only memory (PROM). Once firmware has been written onto the ROM or PROM, it is retained even when the device is turned off.

IEEE - The Institute of Electrical and Electronics Engineers. The IEEE describes itself as "the world's largest technical professional society—promoting the development and application of electrotechnology and allied sciences for the benefit of humanity, the advancement of the profession, and the well-being of our members."

The IEEE fosters the development of standards that often become national and international standards. The organization publishes a number of journals, has many local chapters, and several large societies in special areas, such as the IEEE Computer Society.

Infrastructure Network - An infrastructure network is a group of computers or other devices, each with a wireless adapter, connected as an 802.11 wireless LAN. In infrastructure mode, the wireless devices communicate with each other and to a wired network by first going through an access point. An infrastructure wireless network connected to a wired network is referred to as a Basic Service Set (BSS). A set of two or more BSS in a single network is referred to as an Extended Service Set (ESS). Infrastructure mode is useful at a corporation scale, or when it is necessary to connect the wired and wireless networks.

IP Address - In the most widely installed level of the Internet Protocol (IP) today, an IP address is a 32-binary digit number that identifies each sender or receiver of information that is sent in packet across the Internet. When you request an HTML page or send e-mail, the Internet Protocol part of TCP/IP includes your IP address in the message (actually, in each of the packets if more than one is required) and sends it to the IP address that is obtained by looking up the domain name in the Uniform Resource Locator you requested or in the e-mail address you're sending a note to. At the other end, the recipient can see the IP address of the Web page requester or the e-mail sender and can respond by sending another message using the IP address it received.

IPCONFIG - A utility that provides for querying, defining and managing IP addresses within a network. A commonly used utility, under Windows NT and 2000, for configuring networks with static IP addresses.

ISP - An ISP (Internet service provider) is a company that provides individuals and companies access to the Internet and other related services such as Web site building and virtual hosting.

LAN - A local area network (LAN) is a group of computers and associated devices that share a common communications line and typically share the resources of a single processor or server within a small geographic area (for example, within an office building).

MAC Address - The MAC (Media Access Control) address is your computer's unique hardware number.

mIRC - mIRC runs under Windows and provides a graphical interface for logging onto IRC servers and listing, joining and leaving channels.

Network Mask - also known as the "Subnet Mask."

OFDM - Developed for wireless applications, Orthogonal Frequency Division Multiplexing (OFDM) technology offers superior performance-increased data rates and more reliable transmissions-than previous technologies, such as DSSS. OFDM is a scheme in which numerous signals of different frequencies are combined to form a single signal for transmission on the medium. OFDM works by breaking one high-speed data stream into a number of lower-speed data streams, which are then transmitted in parallel. Each lower speed stream is used to modulate a subcarrier. Essentially, this creates a multi-carrier transmission by dividing a wide frequency band or channel into a number of narrower frequency bands or sub-channels. OFDM is also used for other applications, including powerline networking.

Plug-and-Play - The ability of a computer system to configure expansion boards and other devices automatically without requiring the user to turn off the system during installation.

Roaming - In an infrastructure mode wireless network, this refers to the ability to move out of one access point's range and into another and transparently reassociate and reauthenticate to the new access point. This reassociation and reauthentication should occur without user intervention and ideally without interruption to network connectivity. A typical scenario would be a location with multiple access points, where users can physically relocate from one area to another and easily maintain connectivity.

SSID (Service Set Identifier) - An identification name that wireless devices use to make connections. In order for wireless devices to communicate, they must all be set to the same channel and they all must use the same SSID. For instance, if you are using an access point to connect two computers using wireless devices, the access point and each of the wireless devices must use the same SSID. Even if they are set to the same channel, they cannot communicate unless the SSID is the same.

Static IP Address - A permanent IP address that is assigned to a node in a TCP/IP network.

Subnet Mask - The method used for splitting IP networks into a series of subgroups, or subnets. The mask is a binary pattern that is matched up with the IP address to turn part of the host ID address field into a field for subnets.

TCP (Transmission Control Protocol) - A method (protocol) used along with the IP (Internet Protocol) to send data in the form of message units (datagram) between network devices over a LAN or WAN. While IP takes care of handling the actual delivery of the data (routing), TCP takes care of keeping track of the individual units of data (called packets) that a message is divided into for efficient delivery over the network. TCP is known as a "connection oriented" protocol due to requiring the receiver of a packet to return an acknowledgment of receipt to the sender of the packet resulting in transmission control.

TCP/IP (Transmission Control Protocol/Internet Protocol) - The basic communication language or set of protocols for communications over a network (developed specifically for the Internet). TCP/IP defines a suite or group of protocols and not only TCP and IP.

UDP (User Datagram Protocol) - A method (protocol) used along with the IP (Internet Protocol) to send data in the form of message units (datagram) between network devices over a LAN or WAN. While IP takes care of handling the actual delivery of the data (routing), UDP takes care of keeping track of the individual units of data (called packets) that a message is divided into for efficient delivery over the network. UDP is known as a "connection-less" protocol due to NOT requiring the receiver of a packet to return an acknowledgment of receipt to the sender of the packet (as opposed to TCP).

WEP (Wired Equivalent Privacy) - A data privacy mechanism based on a 64-bit shared key algorithm, as described in the IEEE 802.11b standard.

WINIPCFG - Configuration utility based on the Win32 API for querying, defining and managing IP addresses within a network. A commonly used utility under Windows 95, 98SE, and Me.

WLAN (Wireless Local Area Network) - A group of computers and associated devices that communicate with each other wirelessly.

Appendix C: Specifications

Standards:	IEEE 802.11b, IEEE draft 802.11g
Modulations:	802.11b: CCK (11 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps); 802.11g: OFDM
Channels: 802.11b, draft 802.11g	11 Channels (USA) 13 Channels (most of Europe)
Interface:	CardBus
Speed:	Up to 54 Mbps
LEDs:	Power, Link
WEP Key Bits:	64-Bit and 128-Bit

Environmental

Dimensions:	115 mm x 54 mm x 7.5 mm (4.53" x 2.13" x 0.30")
Unit Weight:	0.047 kg (1.66 oz.)
Power:	3.3V Bus powered
Certifications:	FCC, CE
Operating Temp.:	0°C to 55°C (32°F to 131°F)
Storage Temp.:	-25°C to 70°C (-13°F to 158°F)
Operating Humidity:	5% to 95%, Non-Condensing
Storage Humidity:	5% to 95%, Non-Condensing



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