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Package Contents

- Wireless-G Notebook Adapter with SRX
- Setup Wizard CD-ROM
- User Guide (English only) on CD-ROM
- Quick Installation

2,4 GHz
802.11g

Wireless

Wireless-G
Notebook Adapter with SRX
Quick Installation Guide

CISCO SYSTEMS

Model No. **WPC54GX (EU/LA/UK)**

1 Installing the Wireless-G Notebook Adapter with SRX Utility

The Setup Wizard will install the Adapter's Utility and driver on your computer.

A   Insert the Setup 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).
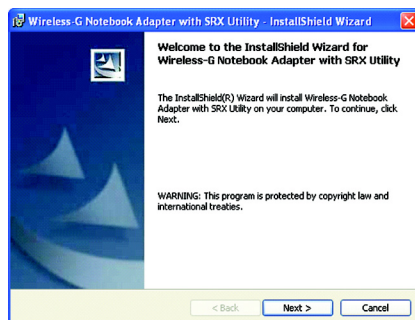
B   Click **Click Here to Start**.

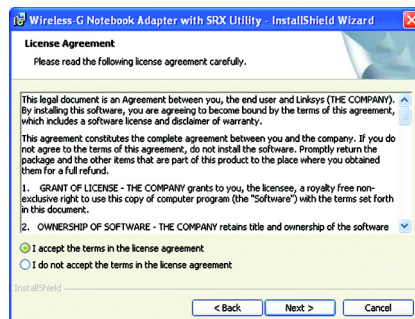**C**   On the *InstallShield Wizard Welcome* screen, click **Next**.

D   After reading the License Agreement, select **I accept the terms in the license agreement** and click **Next** if you agree, or click **Cancel** to end the installation.

B

C

D

E   On the *Customer Information* screen, enter the User Name and name of your organization in the fields provided.

Then choose the users who will be allowed access to the Adapter's Utility. To designate all users, select **Anyone who uses this computer (all users)**. To designate a specific user, select **Only for me (*User Name*)**. Then click **Next**.

F   On the *Setup Type* screen, select **Complete** if you want to install all of the Utility's features, or select **Custom** if you want to do a custom installation. Then click **Next**.

G   On the *Ready to Install the Program* screen, click **Install**.

H   You may see a screen indicating that the driver has not had its Windows compatibility verified. This driver has been tested and does work properly with Windows. Click **Yes** or **Continue Anyway** to continue.

I   After the Utility has been successfully installed, click **Finish**.

E

F

G

I
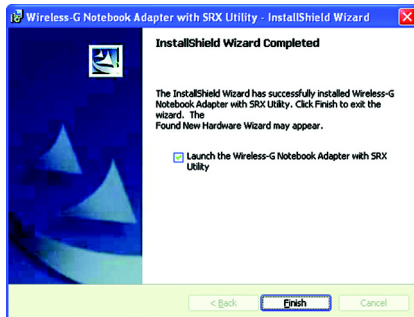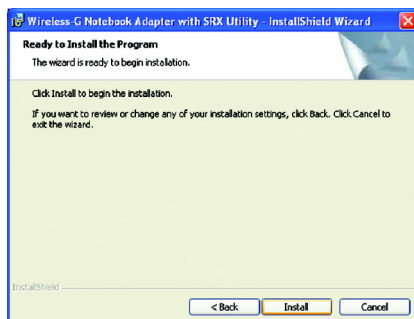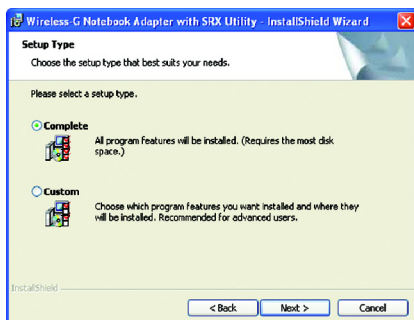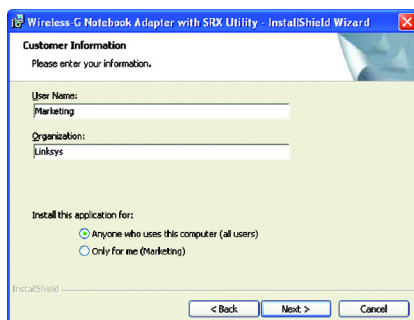
A   Power off your notebook.

B   Locate an available CardBus slot on your notebook.

C   With the connector pin end facing the slot and the label facing up, slide the Adapter into the CardBus slot until it locks in place.

D   Power on your notebook.

E   You may see a screen indicating that the driver has not had its Windows compatibility verified. This driver has been tested and does work properly with Windows. Click **Yes** or **Continue Anyway** to continue.

If you are using Windows XP, you may see the *Found New Hardware* screen. Follow the on-screen instructions.

C

F   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 location (e.g., D:\).

G   After the driver files have been installed, the Adapter's Power LED should light up.

A After installing the Adapter, the Wireless-G Notebook Adapter Wireless Network Monitor icon will appear in the system tray, which is located at the bottom right-hand corner of your screen.

Double-click the icon.

A

B The Utility will open, and the Adapter will attempt to connect to any available wireless network.

If you want to connect to a specific network, you can create a configuration profile for this network. To create a profile, proceed to Step C.

NOTE: If you are running Windows XP, you can use Wireless Zero Configuration to configure the Adapter. Select **Use Windows to configure my wireless networks**, and click **OK**. Refer to Windows Help for more information.
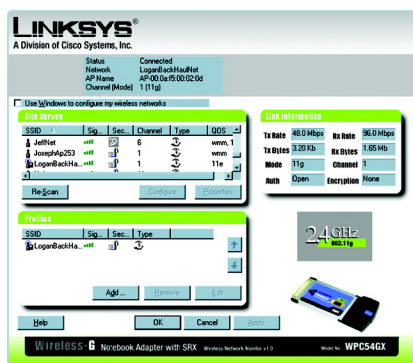
B

Wireless Zero Configuration

5

C   In the *Site Survey* section, select the network you want and click **Configure**.

D   The *Profile Editor* window will appear, with the *SSID*, *BSSID*, *Network Type*, *Authentication*, and *Encryption Type* fields automatically completed.

If WEP is selected for the Encryption Type setting, then enter the WEP key(s) in the *Key 1-4* fields. Click the **Default** radio button to designate the default key.

Then click **OK**.

E   In the *Profiles* section, select the new profile, and click **Apply**.

Congratulations! The installation of the Wireless-G Notebook Adapter with SRX is complete.

D
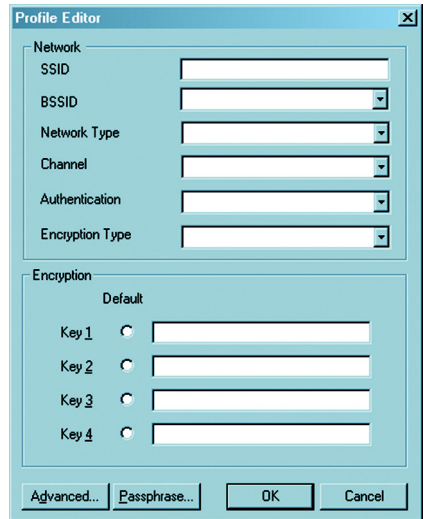
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For additional information or troubleshooting help, refer to the User Guide on the CD-ROM or the Technical Support Insert. You can also e-mail for further support.

Website
http://www.linksys.com/international

Registration
http://www.linksys.com/registration

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Pakkens indhold

- Trådløs-G-notebook-adapter med SRX
- Cd-rom med guidet konfiguration
- Brugervejledning (kun på engelsk) på cd-rom
- Installationsvejledning

2,4 GHz
802.11g

Wireless

Trådløs-G
Notebook-adapter med SRX
Installationsvejledning

CISCO SYSTEMS

Installation af Trådløs-G-notebook-adapter med SRX

Den guidede konfiguration installerer adapterens hjælpeprogram og driver på computeren.

A   Placer installations-cd-rom'en i cd-rom-drevet. Den guidede konfiguration køres automatisk, og skærmbilledet *Welcome* (Velkommen) vises. Hvis det ikke er tilfældet, skal du klikke på **Start** og vælge **Kør**. Indtast **D:\setup.exe** i det felt, der vises (hvis "D" er bogstavet for cd-rom-drevet).
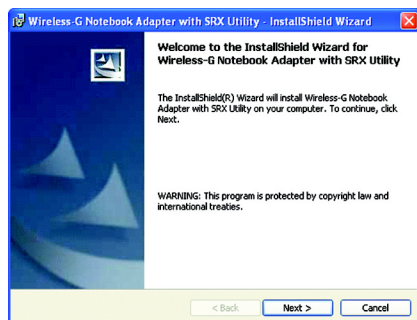
B   Klik på **Click Here to Start** (Klik her for at starte).

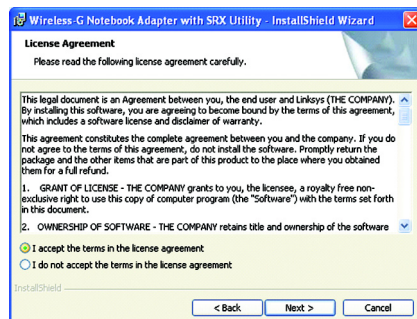C   Klik på **Next** (Næste) på skærmbilledet *InstallShield Wizard Welcome* (Velkommen til guiden InstallShield).

D   Når du har læst licensaftalen, skal du vælge **I accept the terms in the license agreement** (Jeg accepterer vilkårene i licensaftalen) og klikke på **Next** (Næste), hvis du er enig, eller **Cancel** (Annuller) for at afslutte installationen.

B

C

D

E   Indtast brugernavnet og navnet på din organisation i de pågældende felter på skærmbilledet *Customer Information* (Kundeoplysninger).

Vælg derefter de brugere, der skal have adgang til adapterens hjælpeprogram. Hvis alle brugere skal have adgang, skal du vælge **Anyone who uses this computer (all users)** (Alle, der bruger denne computer (alle brugere)). Hvis en bestemt bruger skal have adgang, skal du vælge **Only for me (*User Name*)** (Kun mig (*brugernavn*)). Klik derefter på **Next** (Næste).

F   Vælg **Complete** (Komplet) på skærmbilledet *Setup Type* (Konfigurationstype), hvis du vil installere alle hjælpeprogrammets funktioner, eller vælg **Custom** (Brugerdefineret), hvis du vil foretage en brugerdefineret installation. Klik derefter på **Next** (Næste).

G   Klik på **Install** (Installer) på skærmbilledet *Ready to Install the Program* (Parat til at installere programmet).

H   Du får muligvis vist et skærmbillede, der fortæller, at driveren ikke har fået bekræftet sin kompatibilitet med Windows. Driveren er blevet afprøvet og fungerer korrekt med Windows. Klik på **Yes** (Ja) eller **Continue Anyway** (Fortsæt alligevel) for at fortsætte.

I   Når softwaren er installeret korrekt, skal du klikke på **Finish** (Udfør).

3

2 Installation af Trådløs-G-notebook-adapter med SRX på din pc
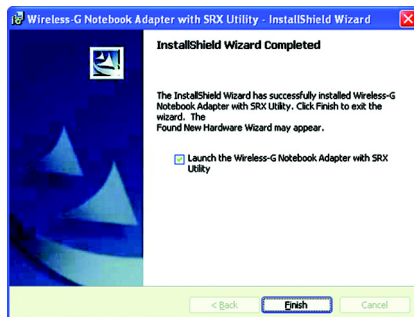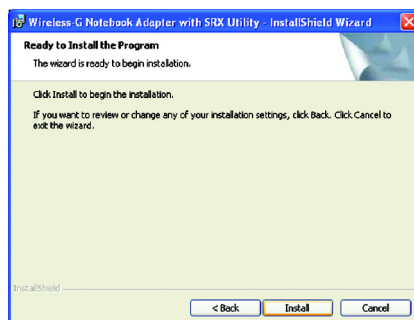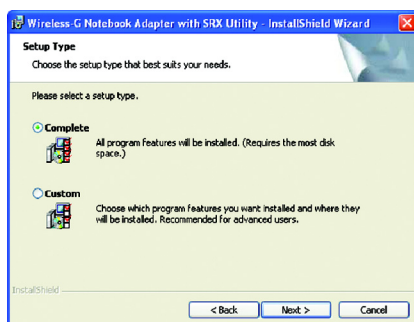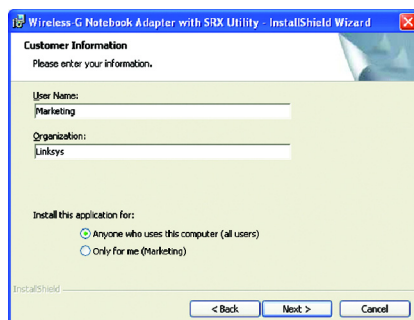
A Sluk for din notebook.

B Find et tilgængeligt CardBus-stik på din notebook.

C Skub adapteren med tilslutningsbenet forrest og mærkatsiden opad ind i CardBus-stikket, indtil det klikker på plads.

D Tænd notebook-computeren.

E Du få muligvis vist et skærmbillede, der fortæller, at driveren ikke har fået bekræftet sin kompatibilitet med Windows. Driveren er blevet afprøvet og fungerer korrekt med Windows. Klik på **Yes** (Ja) eller **Continue Anyway** (Fortsæt alligevel) for at fortsætte.

Hvis du kører Windows XP, får du muligvis vist skærmbilledet *Der er fundet ny hardware*. Følg vejledningen på skærmen.

F Windows begynder at kopiere driverfilerne til din computer. Hvis du bliver bedt om at placere den originale Windows-cd-rom i cd-rom-drevet, skal du gøre dette og derefter dirigere Windows hen til dens placering (f.eks. D:\).

G Når driverfilerne er installeret, skal lysdioden Power på adapteren lyse.

C

Konfiguration af Trådløs-G-Notebook-adapter med SRX

A   Når du har installeret adapteren, vises ikonet for det trådløse netværksovervågnings-programmet til Trådløs-G-notebook-adapteren på proceslinjen i det nederste højre hjørne af skærmen.

Dobbeltklik på ikonet.

B   Hjælpeprogrammet åbnes, og adapteren forsøger at oprette forbindelse til de tilgængelige trådløse netværk.

Hvis du vil oprette forbindelse til et bestemt netværk, kan du oprette en konfigurationsprofil til det pågældende netværk. Gå videre til trin C for at oprette en profil.

BEMÆRK: Hvis du kører Windows XP, kan du bruge Automatisk konfiguration af trådløse enheder til at konfigurere adapteren. Vælg **Use Windows to configure my wireless networks** (Brug Windows til at konfigurere indstillingerne for det trådløse netværk), og klik på **OK**. Yderligere oplysninger finder du i Windows Hjælp.

A

B
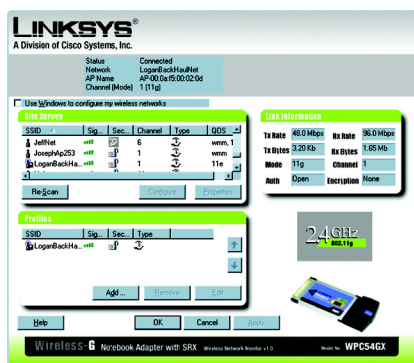
Wireless Zero Konfiguration

C   Vælg det ønskede netværk i sektionen *Site Survey* (Områdesøgning), og klik på **Configure** (Konfigurer).

D   Vinduet *Profile Editor* (Redigeringsprogram til profiler), hvor felterne *SSID*, *BSSID*, *Network Type* (Netværkstype), *Authentication* (Godkendelse) og *Encryption Type* (Krypteringstype) er udfyldt automatisk, vises.

Hvis WEP er valgt i feltet Encryption Type (Krypteringstype), skal du indtaste din WEP-nøgle/nøgler i felterne *Key 1-4* (Nøgle 1-4). Klik på alternativknappen **Default** (Standardindstillinger) for at vælge standardnøglen.

Klik derefter på **OK**.

E   Vælg den nye profil i sektionen *Profiles* (Profiler), og klik på **Apply** (Anvend).

Tillykke! Installationen af Trådløs-G-notebook-adapteren med SRX er fuldført.

D
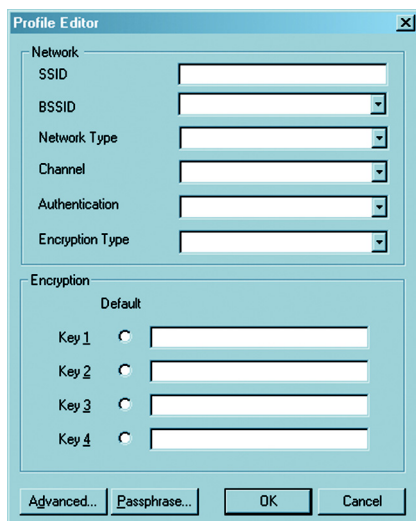
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Yderligere oplysninger eller hjælp til fejlfinding finder du i brugervejledningen på cd-rom'en eller på arket med teknisk support. Du kan også sende en e-mail for at få yderligere support.

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http://www.linksys.com/registration

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WPC54GX-DK-QIG-50106NC JL

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2,4GHz
802.11g

Wireless-G

Wireless

Notebook-Adapter mit SRX
Kurzanleitung

CISCO SYSTEMS

Modell-Nr.   **WPC54GX (DE)**

Der Setup-Assistent installiert das Dienstprogramm und den Treiber des Adapters auf dem Computer.

A   Legen Sie die Installations-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 des CD-ROM-Laufwerks steht).

B   Klicken Sie auf **Click Here to Start** (Klicken Sie hier, um zu starten).

C   Klicken Sie im Willkommensfenster des InstallShield-Assistenten auf **Next** (Weiter).

D   Lesen Sie die Lizenzvereinbarung. Aktivieren Sie **I accept the terms in the license agreement** (Ich stimme den Bedingungen des Lizenzvertrags zu), und klicken Sie auf **Next** (Weiter), wenn Sie die Bedingungen akzeptieren. Klicken Sie anderenfalls auf **Cancel** (Abbrechen), um den Installationsvorgang zu beenden.

B

C

D
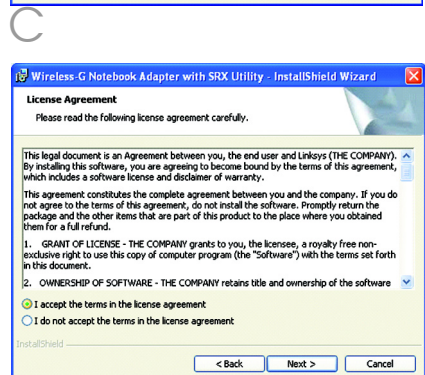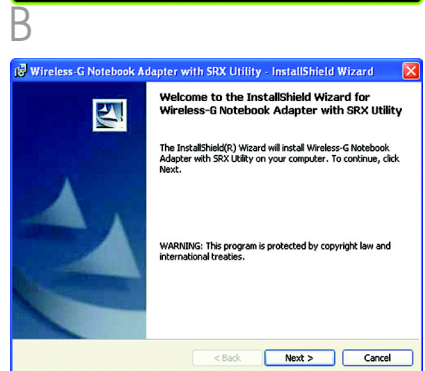
E   Geben Sie im Fenster *Customer Information* (Kundeninformationen) den Benutzernamen und den Namen des Unternehmens in die entsprechenden Felder ein.

Wählen Sie dann die Benutzer aus, denen der Zugriff auf das Dienstprogramm des Adapters gestattet werden soll. Um alle Benutzer festzulegen, aktivieren Sie **Anyone who uses this computer (all users)** (Alle Benutzer dieses Computers). Um einen bestimmten Benutzer festzulegen, aktivieren Sie **Only for me (*User Name*)** (Nur für aktuellen Benutzer [Benutzername]). Klicken Sie anschließend auf **Next** (Weiter).

F   Aktivieren Sie im Fenster *Setup Type* (Installationsart) die Option **Complete** (Vollständig) aus, wenn Sie alle Funktionen des Dienstprogramms installieren möchten. Aktivieren Sie die Option **Custom** (Benutzerdefiniert), wenn Sie eine benutzerdefinierte Installation durchführen möchten. Klicken Sie anschließend auf **Next** (Weiter).

G   Klicken Sie im Fenster *Ready to Install the Program* (Programm kann jetzt installiert werden) auf **Install** (Installieren).

H   Es wird unter Umständen ein Fenster angezeigt, in dem darauf hingewiesen wird, dass die Kompatibilität des Treibers mit Windows nicht überprüft wurde. Dieser Treiber wurde geprüft und funktioniert unter Windows korrekt. Klicken Sie auf **Yes** (Ja) bzw. **Continue Anyway** (Installation fortsetzen), um fortzufahren.

I   Klicken Sie nach erfolgreicher Installation auf **Finish** (Fertig stellen).

E

F

G

I
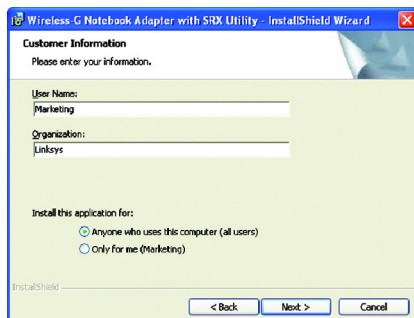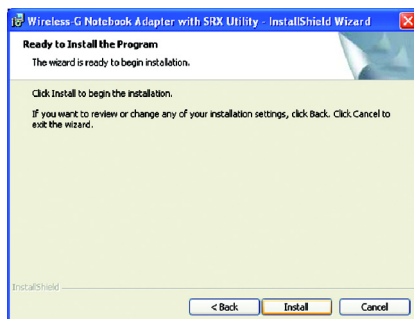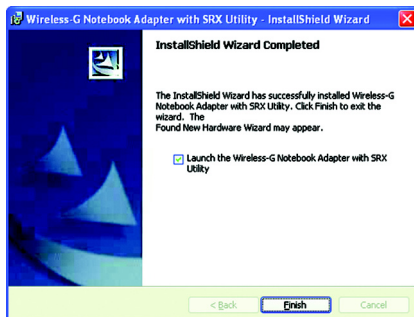
A Schalten Sie das Notebook aus.

B Suchen Sie auf Ihrem Notebook nach einem verfügbaren CardBus-Steckplatz.

C Stecken Sie den Adapter mit der Pin-Seite des Steckers (Etikett nach oben) in den CardBus-Steckplatz, bis er einrastet.

D Schalten Sie Ihr Notebook ein.

E Es wird unter Umständen ein Fenster angezeigt, in dem darauf hingewiesen wird, dass die Kompatibilität des Treibers mit Windows nicht überprüft wur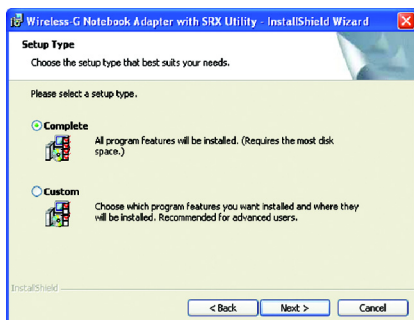de. Dieser Treiber wurde geprüft und funktioniert unter Windows korrekt. Klicken Sie auf **Yes** (Ja) bzw. **Continue Anyway** (Installation fortsetzen), um fortzufahren.

Wenn Sie Windows XP verwenden, wird unter Umständen das Fenster *Neue Hardware gefunden* angezeigt. Befolgen Sie die Anweisungen auf dem Bildschirm.

F 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 Laufwerkbuchstaben an (z. B. D:\).

G Nach der Installation der Treiberdateien sollte die Netzstrom-LED des Adapters leuchten.

C

A Nach der Installation des Adapters wird das Symbol für den Wireless-G Notebook-Adapter Wireless-Netzwerk-Monitor in der Taskleiste in der unteren rechten Ecke Ihres Bildschirms angezeigt.

Doppelklicken Sie auf das Symbol.

B Das Dienstprogramm wird gestartet, und der Adapter versucht, eine Verbindung zu einem verfügbaren Wireless-Netzwerk herzustellen.

Wenn Sie eine Verbindung zu einem bestimmten Netzwerk herstellen möchten, können Sie ein Konfigurationsprofil für dieses Netzwerk erstellen. Fahren Sie zum Erstellen eines Profils mit Schritt C fort.

HINWEIS: Unter Windows XP können Sie den Adapter mithilfe der konfigurationsfreien drahtlosen Verbindung konfigurieren. Aktivieren Sie die Option **Use Windows to configure my wireless networks** (Windows zum Konfigurieren der Einstellungen verwenden), und klicken Sie auf **OK**. Weitere Informationen hierzu finden Sie in der Windows-Hilfe.

A

B
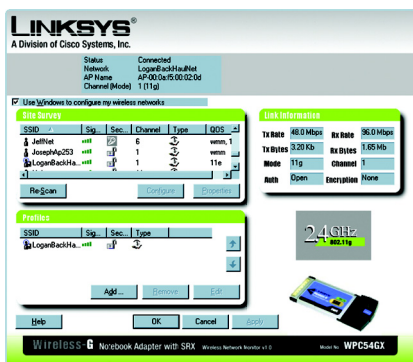
Konfigurationsfreie drahtlose Verbindung

5

C Wählen Sie im Abschnitt *Site Survey* (Netzwerksuche) das gewünschte Netzwerk aus, und klicken Sie auf **Configure** (Konfigurieren).
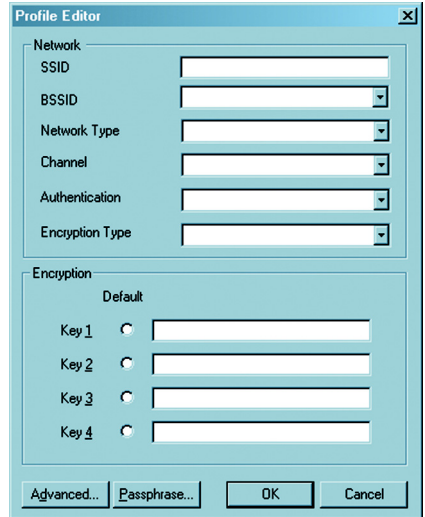
D Das Fenster *Profile Editor* (Profil-Editor) wird angezeigt. Die Felder *SSID*, *BSSID*, *Network Type* (Netzwerktyp), *Authentication* (Authentifizierung) und *Encryption Type* (Verschlüsselungstyp) werden automatisch ausgefüllt.

Wenn als Verschlüsselungstyp **WEP** ausgewählt wurde, geben Sie den bzw. die WEP-Schlüssel in die Felder *Key 1-4* (Schlüssel 1 bis 4) ein. Aktivieren Sie die Optionsschaltfläche **Default** (Standard), um den Standardschlüssel festzulegen.

Klicken Sie anschließend auf **OK**.

E Wählen Sie im Abschnitt *Profiles* (Profile) das neue Profil aus, und klicken Sie auf **Apply** (Anwenden).

Herzlichen Glückwunsch! Die Installation des Wireless-G Notebook-Adapters mit SRX ist hiermit abgeschlossen.

D

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Contenido del paquete

- Adaptador para ordenador portátil Wireless-G con SRX
- Asistente de configuración en CD-ROM
- Guía del usuario (sólo en inglés) en CD-ROM
- Guía de instalación rápida

2,4 GHz
802.11g

Wireless-G

Wireless

Adaptador para ordenador portátil con SRX
Guía de instalación rápida

CISCO SYSTEMS

Nº de modelo **WPC54GX (ES)**

El asistente de configuración instalará la utilidad del adaptador y el controlador en el ordenador.

A   Inserte el CD-ROM 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).
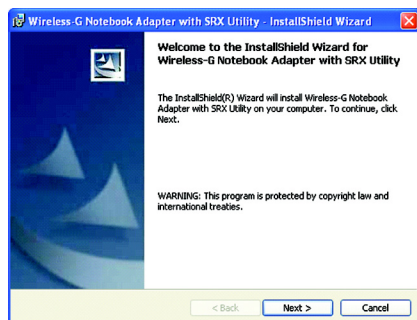
B   Haga clic en **Click Here to Start** (Haga clic aquí para empezar).

C   En la pantalla *InstallShield Wizard Welcome* (Bienvenido al asistente InstallShield), haga clic en **Next** (Siguiente).

D   Una vez leído el acuerdo de licencia, seleccione **I accept the terms in the license agreement** (Acepto los términos de este acuerdo de licencia) y haga clic en **Next** (Siguiente) si está de acuerdo o en **Cancel** (Cancelar) para dar por concluida la instalación.

B

C
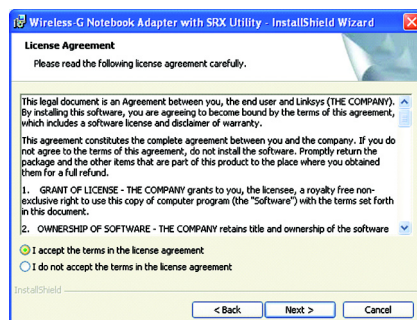
D

E   En la pantalla *Customer Information* (Información del cliente), introduzca el nombre de usuario (User Name) y el nombre de su organización (Organization) en los campos correspondientes.

A continuación, seleccione los usuarios que podrán acceder a la utilidad del adaptador. Para definir todos los usuarios, seleccione **Anyone who uses this computer (all users)** (Cualquier persona que use este equipo, todos los usuarios). Para definir un usuario específico, seleccione **Only for me** (*User Name*) (Sólo para mí, nombre de usuario). Haga clic en **Next** (Siguiente).

F   En la pantalla *Setup Type* (Tipo de instalación), seleccione **Complete** (Completa) si desea instalar todas las características de la utilidad o **Custom** (Personalizada) si desea realizar una instalación personalizada. Haga clic en **Next** (Siguiente).

G   En la pantalla *Ready to Install the Program* (Preparado para instalar el programa), haga clic en **Install** (Instalar).

H   Es posible que aparezca una pantalla que indica que no se ha comprobado la compatibilidad con Windows del controlador. Este controlador se ha probado y funciona correctamente en Windows. Haga clic en **Yes** (Sí) o **Continue Anyway** (Continuar) para continuar.

I   Una vez instalada correctamente la utilidad, haga clic en **Finish** (Finalizar).

3

2 Inserción del adaptador para ordenador portátil Wireless-G con SRX en el PC
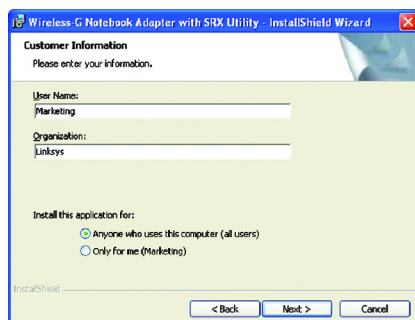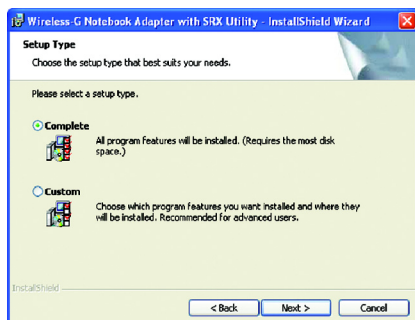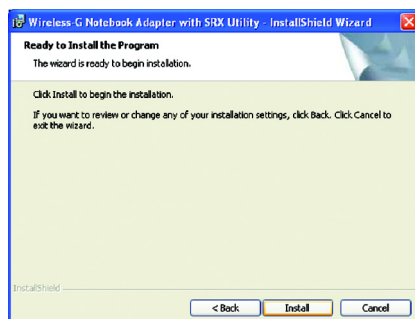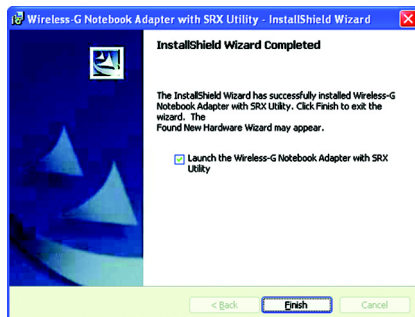
A Apague el ordenador portátil.

B Busque una ranura CardBus disponible en el ordenador portátil.

C Con el extremo de las patillas de conexión hacia la ranura y la etiqueta hacia arriba, inserte el adaptador en la ranura CardBus hasta que encaje.

D Encienda el ordenador portátil.

E Es posible que aparezca una pantalla que indica que no se ha comprobado la compatibilidad con Windows del controlador. Este controlador se ha probado y funciona correctamente en Windows. Haga clic en **Yes** (Sí) o **Continue Anyway** (Continuar) para continuar.

Si utiliza Windows XP, es posible que aparezca la pantalla *Nuevo hardware encontrado*. Siga las instrucciones que aparecen en pantalla.

F 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 del mismo (por ejemplo, D:\).

G Una vez instalados los archivos del controlador, se debe encender la luz Power (Alimentación) del adaptador.

C

A Una vez instalado el adaptador, aparece el icono del monitor de red inalámbrica del adaptador para ordenador portátil Wireless-G en la bandeja del sistema, situada en la parte inferior derecha de la pantalla.

Haga doble clic en dicho icono.

A

B Se abrirá la utilidad y el adaptador intentará conectarse a cualquier red inalámbrica disponible.

Si desea conectarse a una red específica, puede crear un perfil de configuración para dicha red. Para crear un perfil, siga en el paso C.

B

NOTA: Si ejecuta Windows XP, puede utilizar la configuración inalámbrica rápida para configurar el adaptador. Seleccione **Use Windows to configure my wireless networks** (Utilizar Windows para configurar mis redes inalámbricas) y haga clic en **OK** (Aceptar). Consulte la ayuda de Windows para obtener más información.

Configuración inalámbrica rápida

5
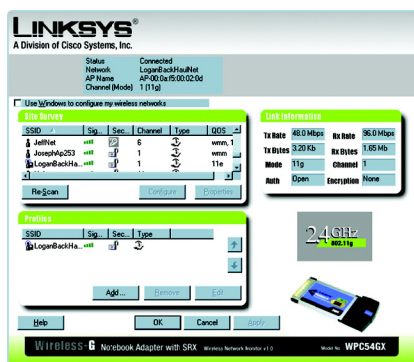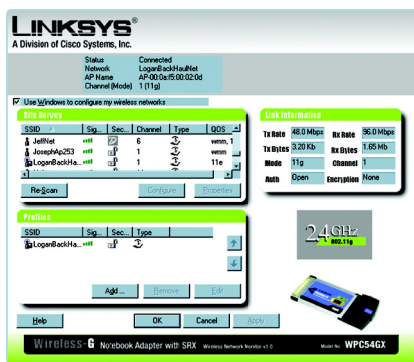
C   En la sección *Site Survey*
    (Sondeo del sitio), seleccione
    la red que desee y haga clic
    en **Configure** (Configurar).

D   Aparecerá la ventana *Profile
    Editor* (Editor de perfil), con los
    campos *SSID*, *BSSID*, *Network
    Type* (Tipo de red)
    Authentication (Autenticación)
    y *Encryption Type* (Tipo de
    encriptación) rellenados
    automáticamente.

    Si se ha seleccionado WEP
    como parámetro de tipo de
    cifrado (Encryption Type),
    introduzca las claves WEP en los
    campos *Key 1-4* (Clave 1-4).
    Haga clic en el botón de radio
    Default (Predeterminada) para
    definir la clave predeterminada.

    A continuación, haga clic en
    OK (Aceptar).

E   En la sección *Profiles* (Perfiles),
    seleccione el nuevo perfil y
    haga clic en **Apply** (Aplicar).

**Enhorabuena. La instalación del
adaptador para ordenador portátil
Wireless-G con SRX ha finalizado.**

D

LINKSYS®

A Division of Cisco Systems, Inc.

2,4GHz
802.11g

Sans fil G

Adaptateur pour ordinateur portable avec SRX

Sans fil

Guide d'installation rapide

CISCO SYSTEMS

Modèle réf. **WPC54GX (FR)**

L'Assistant de configuration installe l'utilitaire de l'adaptateur et le pilote sur votre ordinateur.

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

B Cliquez sur **Click Here to Start** (Cliquez ici pour démarrer).

C Dans l'écran *InstallShield Wizard Welcome* (Bienvenue dans l'Assistant InstallShield), cliquez sur **Next** (Suivant).

D Après avoir lu le contrat de licence, sélectionnez **I accept the terms in the license agreement** (J'accepte les termes de l'accord de licence), puis cliquez sur **Next** (Suivant) pour continuer ou sur **Cancel** (Annuler) pour interrompre l'installation.

B
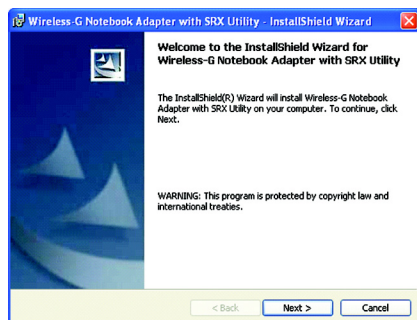
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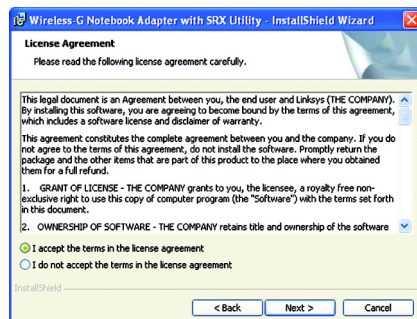
D

E   Dans l'écran *Customer Information* (Informations sur le client), saisissez votre nom d'utilisateur et le nom de votre société dans les champs correspondants.

Puis sélectionnez les utilisateurs autorisés à accéder à l'utilitaire de l'adaptateur. Pour désigner tous les utilisateurs, sélectionnez **Anyone who uses this computer (all users)** (Toute personne utilisant cet ordinateur (tous les utilisateurs)). Pour désigner un utilisateur particulier, sélectionnez **Only for me (*User Name*)** (Moi uniquement (*Nom d'utilisateur*)). Cliquez ensuite sur **Next** (Suivant).

F   Dans l'écran *Setup Type* (Type d'installation), sélectionnez **Complete** (Complète) pour installer toutes les fonctionnalités de l'utilitaire ou **Custom** (Personnalisée) pour procéder à une installation personnalisée. Cliquez ensuite sur **Next** (Suivant).

G   Dans l'écran *Ready to Install the Program* (Prêt à installer le programme), cliquez sur **Install** (Installer).

H   Vous pouvez obtenir un écran indiquant que la compatibilité Windows du pilote n'a pas été vérifiée. Ce pilote a été testé et fonctionne correctement avec Windows. Cliquez sur **Yes** (Oui) ou **Continue Anyway** (Continuer) pour poursuivre.

I   Une fois que le logiciel a été correctement installé, cliquez sur **Finish** (Terminer).

E

F

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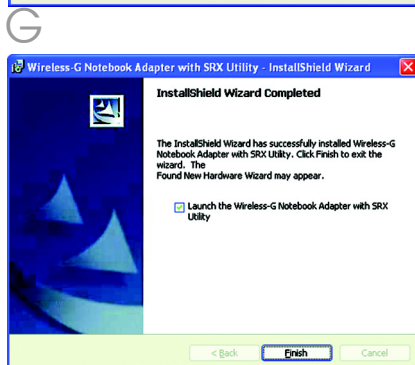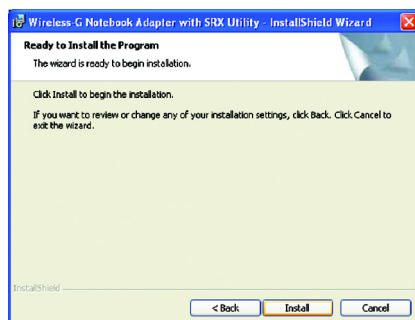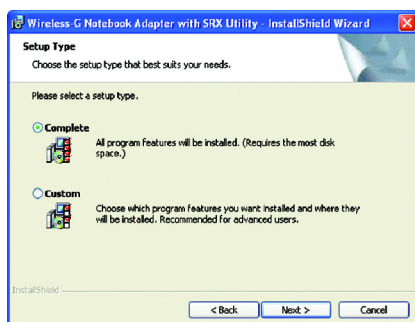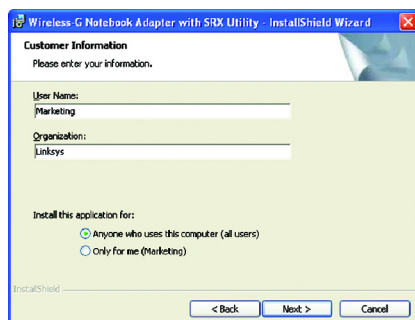
A Mettez votre ordinateur portable hors tension.

B Localisez un connecteur CardBus disponible sur votre ordinateur portable.

C Après avoir orienté l'extrémité des broches du connecteur face à l'emplacement CardBus et l'étiquette vers le haut, faites glisser l'adaptateur dans l'emplacement CardBus jusqu'à ce qu'il se bloque.

C

D Mettez votre ordinateur portable sous tension.

E Vous pouvez obtenir un écran indiquant que la compatibilité Windows du pilote n'a pas été vérifiée. Ce pilote a été testé et fonctionne correctement avec Windows. Cliquez sur **Yes** (Oui) ou **Continue Anyway** (Continuer) pour poursuivre.

Si vous utilisez Windows XP, vous pouvez obtenir l'écran *Found New Hardware* (Nouveau matériel détecté). Suivez les instructions affichées.

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

G Le voyant d'alimentation de l'adaptateur doit s'allumer une fois les fichiers du pilote installés.

A   Une fois l'adaptateur installé, l'icône Wireless Network Monitor de l'adaptateur pour ordinateur portable sans fil G apparaît dans la barre d'état système, située dans le coin inférieur droit de l'écran.

Cliquez deux fois sur cette icône.

B   L'utilitaire s'ouvre et l'adaptateur tente de se connecter à un réseau sans fil disponible.

Pour établir la connexion à un réseau spécifique, vous pouvez créer un profil de configuration pour ce réseau. Pour créer un profil, passez à l'étape C.

REMARQUE : Si vous exécutez Windows XP, vous pouvez utiliser la configuration automatique sans fil pour configurer l'adaptateur. Sélectionnez **Use Windows to configure my wireless networks** (Utiliser Windows pour configurer mon réseau sans fil), puis cliquez sur **OK**. Pour plus d'informations, consultez l'aide de Windows.

A
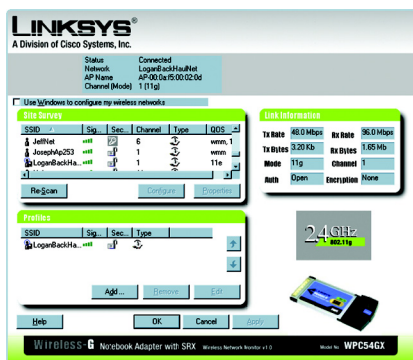
B

Configuration automatique sans fil

5

C Dans la section *Site Survey* (Recherche de site), sélectionnez le réseau de votre choix, puis cliquez sur **Configure** (Configurer).

D La fenêtre *Profile Editor* (Editeur de profils) s'affiche. Les champs *SSID*, *BSSID*, *Network Type* (Type de réseau), *Authentication* (Authentification) et *Encryption Type* (Type de cryptage) sont remplis automatiquement.

Si WEP est sélectionné pour le paramètre Encryption Type (Type de cryptage), saisissez les clés WEP dans les champs *Key 1-4* (Clé 1-4). Cliquez sur le bouton d'option **Default** (Par défaut) pour définir la clé par défaut.

Cliquez ensuite sur **OK**.

E Dans la section *Profiles* (Profils), sélectionnez le nouveau profil, puis cliquez sur **Apply** (Appliquer).

Félicitations ! L'installation de la carte pour ordinateur portable sans fil G avec SRX est terminée.

D
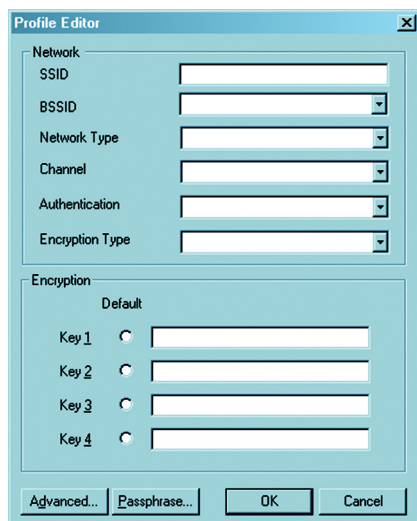
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Pour obtenir de plus amples informations ou bénéficier d'une assistance technique, reportez-vous au Guide de l'utilisateur du CD-ROM ou à la Fiche d'assistance technique. Pour obtenir davantage d'aide, vous pouvez également envoyer un courrier électronique.

Site Web
   http://www.linksys.com/international
Enregistrement
   http://www.linksys.com/registration

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Contenuto della confezione

- Adattatore per notebook Wireless-G con SRX
- Setup Wizard CD-ROM (CD per l'installazione guidata)
- User Guide (Guida per l'utente, solo in inglese) su CD-ROM
- Guida di installazione rapida

2,4 GHz **802,11g**

Wireless-G

Wireless

Adattatore per notebook con SRX Guida di installazione rapida

CISCO SYSTEMS

L'installazione guidata consente di installare il programma di utilità dell'adattatore e il relativo driver sul computer.

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

B

B   Fare clic su **Click Here to Start** (Fare clic qui per iniziare).

C   Fare clic su **Next** (Avanti) nella schermata *Welcome* (Benvenuti) dell'installazione guidata.

C

D   Dopo aver letto la schermata Contratto di licenza, selezionare **I accept the terms in the license agreement** (Accetto i termini del Contratto di licenza) e fare clic su **Next** (Avanti) se si accettano i termini o su **Cancel** (Annulla) per interrompere l'installazione.
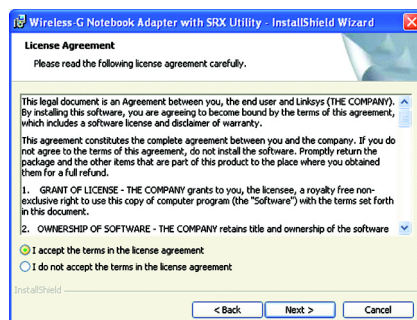
D

E   Nella schermata *Customer Information* (Informazioni utente), immettere il nome utente e il nome dell'organizzazione negli appositi campi.

Scegliere quindi gli utenti a cui sarà consentito l'accesso al programma di utilità dell'adattatore. Per selezionare tutti gli utenti, scegliere **Anyone who uses this computer (all users)** (Chiunque utilizzi il computer (tutti gli utenti)). Per specificare un solo utente, selezionare **Only for me (*User Name*)** (Solo per (*Nome utente*)). Fare quindi clic su **Next** (Avanti).

F   Nella schermata *Setup Type* (Tipo di installazione), selezionare **Complete** (Completa) se si desidera installare tutte le funzioni dell'utilità o **Custom** (Personalizzata) se si desidera eseguire un'installazione personalizzata. Fare quindi clic su **Next** (Avanti)**.**

G   Nella schermata *Ready to Install the Program* (Installazione del programma), fare clic su **Install** (Installa).

H   È possibile che venga visualizzata una schermata in cui si notifica che il driver non è stato testato per la compatibilità di Windows. Il driver è stato testato e funziona correttamente con Windows. Fare clic su **Yes** (Sì) o **Continue Anyway** (Continua) per procedere.

I   Se l'installazione dell'utilità è stata portata a termine correttamente, fare clic su **Finish** (Fine).

E

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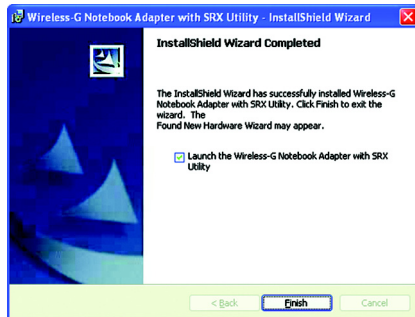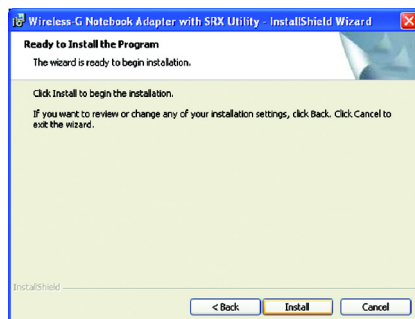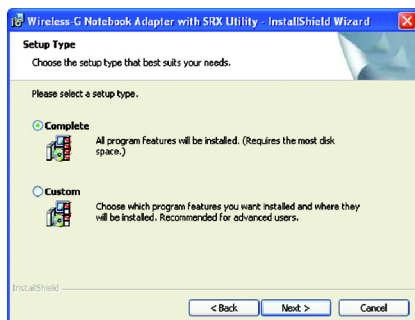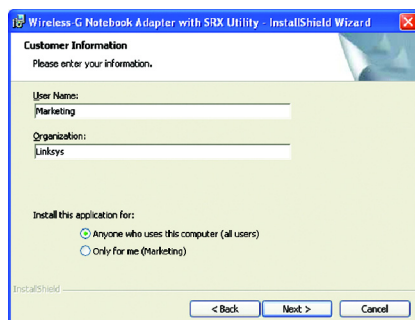
A   Spegnere il notebook.

B   Individuare uno slot CardBus vuoto sul notebook.

C   Orientando il lato con i pin di connessione verso lo slot e con l'etichetta rivolta verso l'alto, inserire l'adattatore nello slot CardBus finché non si blocca in posizione.

D   Accendere il notebook.

E   È possibile che venga visualizzata una schermata in cui si notifica che il driver non è stato testato per la compatibilità di Windows. Il driver è stato testato e funziona correttamente con Windows. Fare clic su **Yes** (Sì) o **Continue Anyway** (Continua) per procedere.

Se si utilizza Windows XP, viene visualizzata la schermata *Installazione guidata nuovo hardware*. Seguire le istruzioni visualizzate sullo schermo.

F   Windows inizia a copiare i file del driver sul computer. Se richiesto, inserire il CD-ROM originale di Windows nell'unità CD-ROM e specificarne la posizione (ad esempio, D:\).

G   Se i file sono stati installati correttamente, il LED di alimentazione dell'adattatore si illumina.

C

4

3 Configurazione dell'adattatore Wireless-G per notebook con SRX

A Quando l'adattatore è stato installato, nell'angolo inferiore destro dello schermo, sulla barra delle applicazioni, viene visualizzata l'icona del monitor di rete wireless dell'adattatore per notebook Wireless-G.

Fare doppio clic su questa icona.

A

B L'utilità si apre e l'adattatore tenta di collegarsi a una qualsiasi rete wireless disponibile.

Per collegarsi a una rete specifica, è possibile creare un profilo di configurazione per tale rete. Per creare un profilo, passare alla fase C.

NOTA Se sul PC è in esecuzione Windows XP, è possibile utilizzare Zero Configuration reti senza fili per la configurazione dell'adattatore. Selezionare **Use Windows to configure my wireless networks** (Usa Windows per configurare le reti senza fili) e fare clic su **OK**. Per ulteriori informazioni, consultare la Guida in linea di Windows.
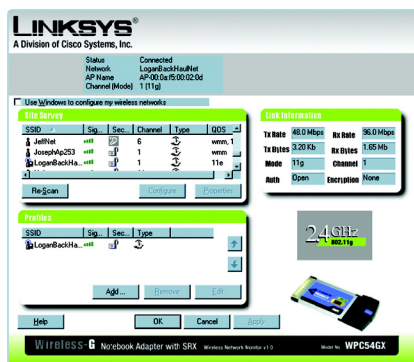
B

Zero Configuration reti senza fili

5
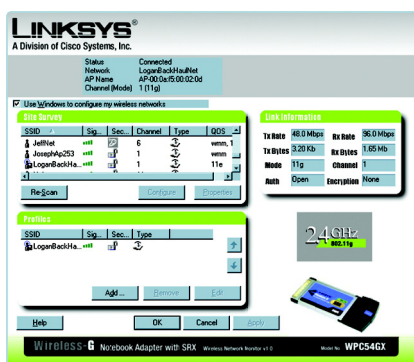
C   Nella sezione *Site Survey*
(Ricerca sul sito), selezionare la
rete desiderata e fare clic su
Configure (Configura).

D   Viene visualizzata la finestra
Profile Editor (Editor profili) con i
campi *SSID*, *BSSID*, *Network Type*
(Tipo di rete), *Authentication*
(Autenticazione) e *Encryption
Type* (Tipo cifratura) completati
in modo automatico.

Se si seleziona WEP
nell'impostazione Tipo cifratura,
immettere una o più chiavi WEP
nei campi delle chiavi 1-4. Fare
clic sul pulsante di opzione
Default (Predefinita) per
specificare la chiave predefinita.

Fare clic su **OK**.

E   Nella sezione *Profiles* (Profili),
selezionare il nuovo profilo,
quindi fare clic su **Apply**
(Applica).

**Congratulazioni! L'installazione
dell'adattatore per notebook
Wireless-G con SRX è completata.**

D
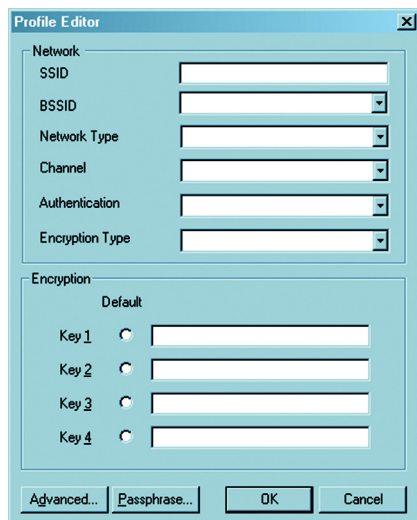
A Division of Cisco Systems, Inc.

Per ulteriori informazioni o istruzioni relative
alla risoluzione dei problemi, consultare la User
Guide (Guida per l'utente) su CD-ROM oppure
il supplemento per l'assistenza tecnica. È
possibile ricevere ulteriore assistenza anche
inviando un messaggio di posta elettronica.

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

Registrazione
   http://www.linksys.com/registration

WPC54GX-IT-QIG-50106NC JL

LINKSYS®

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Conteúdo da embalagem

- Placa sem fios G para computador portátil com SRX
- CD-ROM do Setup Wizard (Assistente de configuração)
- Manual do Utilizador (disponível apenas em inglês) no CD-ROM
- Instalação Rápida

2,4 GHz 802.11g

Sem fios G

Placa para computador portátil com SRX

Wireless

Manual de Instalação Rápida

CISCO SYSTEMS

Modelo n.º **WPC54GX (PT)**

Instalar o Utilitário da Placa sem fios G para computador Portátil com SRX

O Setup Wizard (Assistente de configuração) procederá à instalação do Utilitário e do controlador da Placa no computador.

A Coloque o CD-ROM 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). Caso contrário, 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 em **Click Here to Start** (Clique aqui para iniciar).

C No ecrã *Bem-vindo ao InstallShield Wizard Welcome* (Bem-vindo ao assistente InstallShield)*,* clique em **Next** (Seguinte).

D Depois de ler o Contrato de licença, seleccione **I accept the terms in the license agreement** (Aceito os termos do contrato de licença) e clique em **Next** (Seguinte) se aceitar ou em **Cancel** (Cancelar) para terminar a instalação.

B
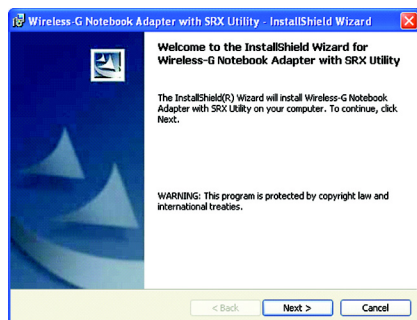
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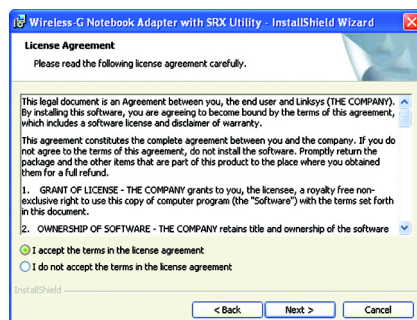
D

E No ecrã *Customer Information* (Informações sobre o cliente), introduza o Nome de utilizador e o nome da organização nos campos fornecidos.

Em seguida, escolha os utilizadores que terão permissão de acesso ao Utilitário da Placa. Para designar todos os utilizadores, seleccione **Anyone who uses this computer (all users)** (Qualquer utilizador que utilize este computador (todos os utilizadores)). Para designar um utilizador específico, seleccione **Only for me (*User Name*)** (Apenas para mim (*Nome de utilizador*)). Em seguida, clique em **Next** (Seguinte).

F No ecrã *Setup Type* (Tipo de configuração), seleccione **Complete** (Completa) se pretender instalar todas as funcionalidades do Utilitário ou seleccione **Custom** (Personalizada) se pretender personalizar a instalação. Em seguida, clique em **Next** (Seguinte).

G No ecrã *Ready to Install the Program* (Preparado para instalar o programa), clique em **Install** (Instalar).

H Poderá ser apresentado um ecrã a indicar que não foi efectuada a verificação da compatibilidade do controlador com o Windows. Este controlador foi testado e funciona correctamente com o Windows. Clique em **Yes** (Sim) ou **Continue Anyway** (Continuar na mesma) para continuar.

I Depois de o Utilitário ter sido instalado com êxito, clique em **Finish** (Concluir).

E

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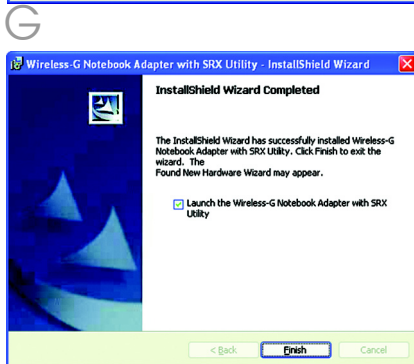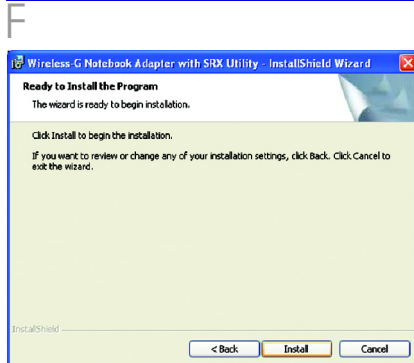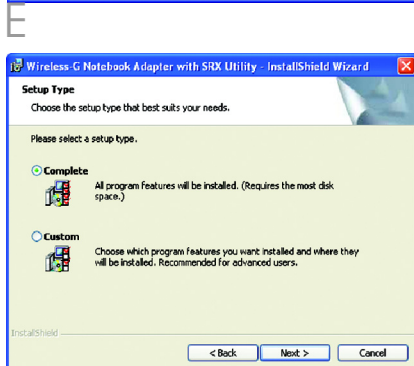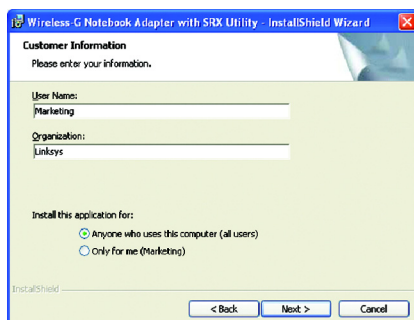
A   Desligue o computador portátil.

B   Localize uma ranhura CardBus disponível no computador portátil.

C   Com os pinos do conector virados para a ranhura e a etiqueta virada para cima, introduza a Placa na ranhura CardBus até encaixar.

D   Ligue o computador portátil.

E   Poderá ser apresentado um ecrã a indicar que não foi efectuada a verificação da compatibilidade do controlador com o Windows. Este controlador foi testado e funciona correctamente com o Windows. Clique em **Yes** (Sim) ou **Continue Anyway** (Continuar na mesma) para continuar.

Se estiver a utilizar o Windows XP, poderá ser apresentado o ecrã *Novo hardware encontrado*. Siga as instruções apresentadas no ecrã.

F   O Windows começará a copiar os ficheiros do controlador para o computador. Se o Windows solicitar o CD-ROM original do Windows, coloque o CD-ROM e indique ao Windows a respectiva localização (por exemplo, D:\).

G   Após a instalação dos ficheiros do controlador, o LED Power (Alimentação) da Placa deverá ficar aceso.

C

A Depois de instalar a Placa, o ícone Wireless Network Monitor (Monitor de redes sem fios) da Placa sem fios G para computador portátil será apresentado no tabuleiro do sistema, localizado no canto inferior direito do ecrã.

Faça duplo clique no ícone.

B O Utilitário será aberto e a Placa tentará ligar-se a qualquer rede sem fios disponível.

Se pretender ligar a uma rede específica, poderá criar um perfil de configuração para essa rede. Para criar um perfil, avance para o Passo C.

NOTA: Se utilizar o Windows XP, poderá utilizar a Configuração nula sem fios para configurar a Placa. Seleccione **Use Windows to configure my wireless networks** (Utilizar o Windows para configurar as redes sem fios) e clique em **OK**. Consulte a Ajuda do Windows para obter mais informações.

A

B

Configuração nula sem fios

C Na secção *Site Survey* (Pesquisa de sites), seleccione a rede pretendida e clique em **Configure** (Configurar).

D Será apresentada a janela *Profile Editor* (Editor de perfis), com os campos *SSID*, *BSSID*, *Network Type*, *Authentication* e *Encryption Type* (SSID, BSSID, Tipo de rede, Autenticação e Tipo de encriptação) automaticamente preenchidos.

Se for seleccionado o tipo de encriptação WEP, introduza a(s) chave(s) WEP nos campos *Key 1-4* (Chave 1 a 4). Clique no botão de rádio **Default** (Predefinição) para designar a chave predefinida.

Em seguida, clique em **OK**.

E Na secção *Profiles* (Perfis), seleccione o novo perfil e clique em **Apply** (Aplicar).

Parabéns! A instalação da Placa sem fios G para computador portátil com SRX está concluída.
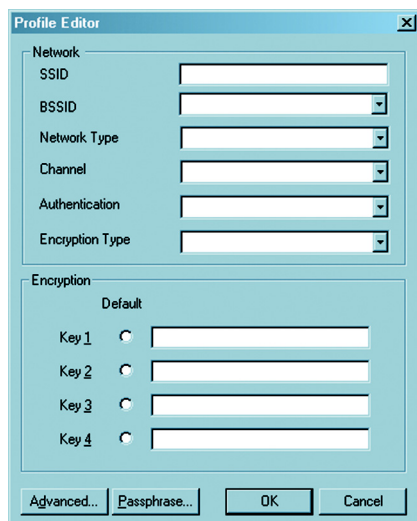
D

LINKSYS®

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Innehåll i förpackningen

- Wireless-G Adapter med SRX för bärbar dator
- Cd-skiva med installationsguide
- Användarhandbok (endast engelska) på cd-skiva
- Snabbinstallation

2,4 GHz
802,11g

Wireless

Wireless-G

Adapter med SRX för bärbar dator
Snabbinstallationshandbok

CISCO SYSTEMS

Modellnummer **WPC54GX (SE)**

Installera Wireless-G i bärbar dator Adapter med SRX-verktyg

Installationsguiden hjälper dig att installera adapterns verktygsprogram och drivrutiner i datorn.

A   Sätt in installations-cd:n i cd-enheten. Guiden startas och skärmen *Welcome (Välkommen)* visas automatiskt. Om den inte gör det klickar du på **Start** och väljer **Kör**. I fältet som visas anger du **D:\setup.exe** (om "D" är cd-enhetens beteckning).

B   Klicka på **Click Here to Start** (Klicka här om du vill starta).

C   Klicka på **Next** (Nästa) på skärmen *InstallShield Wizard Welcome* (Välkommen till guiden för installationsprogrammet).

D   Läs igenom licensavtalet, klicka på **I accept the terms in the license agreement** (Jag accepterar villkoren i licensavtalet) och klicka på **Next** (Nästa) om du accepterar det, eller på **Cancel** (Avbryt) om du vill avsluta installationen.

B

C
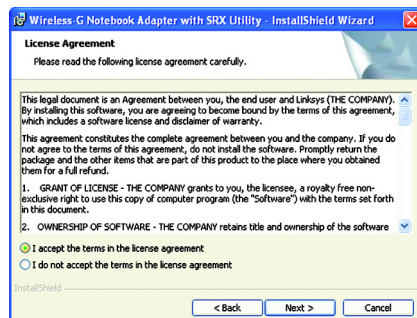
D

E   På skärmen *Customer Information* (Kundinformation) skriver du användar- och organisationsnamn i motsvarande fält.

Välj sedan vilka användare som ska få åtkomst till adapterns verktyg. Om du vill ange alla användare väljer du **Anyone who uses this computer (all users)** (Alla som använder den här datorn (alla användare)). Om du vill ange en specifik användare väljer du **Only for me (*User Name*)** (Endast för mig (*användarnamn*)). Klicka på **Next** (Nästa).

F   På skärmen *Setup Type* (Inställningstyp) väljer du **Complete** (Fullständig) om du vill installera verktygets alla funktioner, eller **Custom** (Anpassad) om du vill göra en anpassad installation. Klicka på **Next** (Nästa).

G   På skärmen *Ready to Install the Program* (Redo att installera programmet) klickar du på **Install** (Installera).

H   Det är möjligt att ett varnings-meddelande visas om att drivrutinens Windows-kompatibilitet inte har kontrollerats. Den här drivrutinen har testats och fungerar korrekt med Windows. Fortsätt genom att klicka på **Yes** (Ja) eller **Continue Anyway** (Fortsätt ändå).

I   När verktyget har installerats klickar du på **Finish** (Slutför).

E

F

G

I

2 Sätta in Wireless-G Adapter med SRX för bärbar dator i datorn
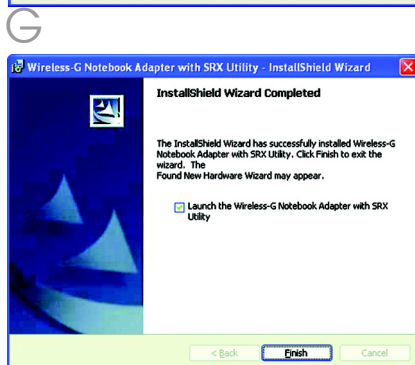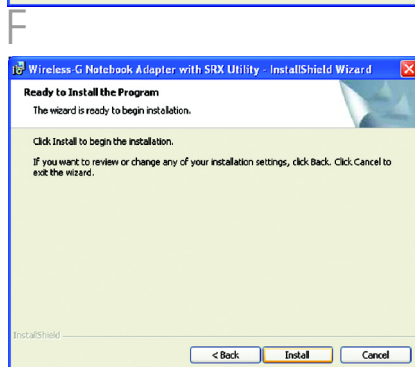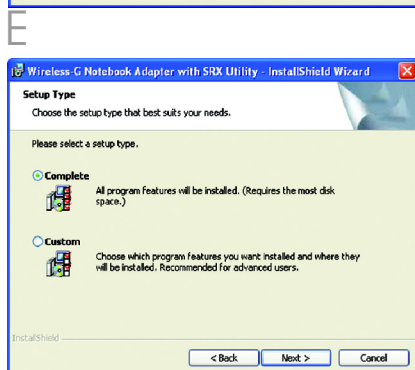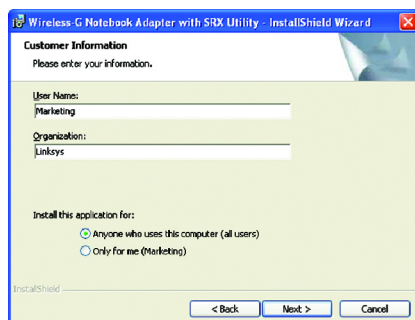
A   Stäng av den bärbara datorn.

B   Leta upp en tillgänglig CardBus-kortplats på den bärbara datorn.

C   Skjut in adaptern i CardBus-kortplatsen med anslutningsstiftet mot kortplatsen och etikettsidan upp tills den sitter fast ordentligt.

D   Sätt på den bärbara datorn.

E   Det är möjligt att ett varnings-meddelande visas om att drivrutinens Windows-kompatibilitet inte har kontrollerats. Den här drivrutinen har testats och fungerar korrekt med Windows. Fortsätt genom att klicka på **Yes** (Ja) eller **Continue Anyway** (Fortsätt ändå).

Om du använder Windows XP kan skärmen *Ny maskinvara har hittats* visas. Följ anvisningarna på skärmen.

F   Drivrutinsfilerna börjar kopieras till datorn. Om du blir ombedd att sätta in originalskivan för Windows sätter du in cd-skivan och anger sökvägen (till exempel D:\).

G   När drivrutinsfilerna har installerats bör adapterns strömlysdiod tändas.

C

Konfigurera Wireless-G Adapter med SRX för bärbar dator

A När du har installerat adaptern visas ikonen Wireless Network Monitor (övervakare för trådlösa nätverk) för Wireless-G Adapter för bärbar dator.

Dubbelklicka på ikonen.

B Verktyget öppnas och adaptern försöker ansluta till tillgängliga trådlösa nätverk.

Om du vill ansluta till ett specifikt nätverk kan du skapa en konfigurationsprofil för det nätverket. Om du vill skapa en profil fortsätter du till steg C.

OBS! Om du kör Windows XP kan du använda Wireless Zero Configuration (trådlös nollkonfiguration) när du konfigurerar adaptern. Välj **Use Windows to configure my wireless networks** (Konfigurera mina inställningar för trådlösa nätverk med Windows) och klicka på **OK**. Mer information finns i Windows-hjälpen.

A

B

Wireless Zero-konfiguration

5
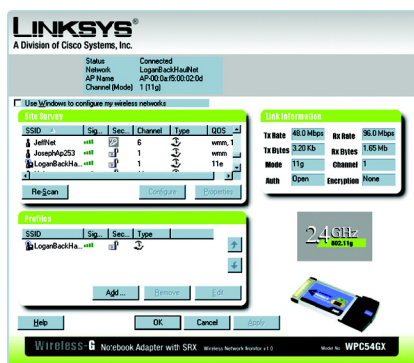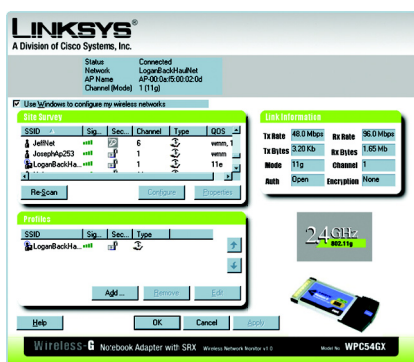
C I avsnittet *Site Survey* (Platsöversikt) väljer du det nätverk du vill ansluta till och klickar på **Configure** (Konfigurera).
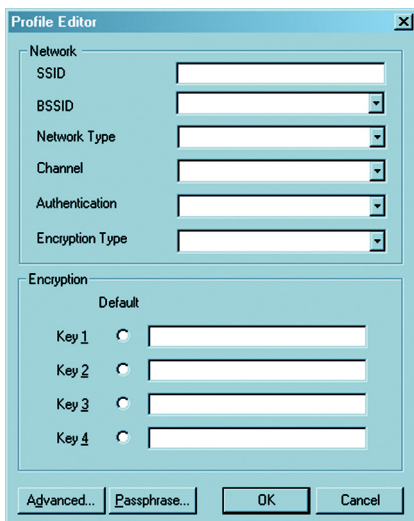
D Dialogrutan *Profile Editor* (Profilredigering) visas med fälten *SSID*, *BSSID*, *Network Type* (Nätverkstyp), *Authentication* (Autentisering) och *Encryption Type* (Kryptering) automatiskt ifyllda.

Om WEP anges i inställningen för Encryption Type (Kryptering), så anger du WEP-nycklarna i fälten *Key 1-4* (Nyckel 1 - 4). Klicka på alternativknappen **Default** (Standard) för den nyckel som ska vara standardnyckel.

Klicka därefter på **OK**.

E I avsnittet *Profiles* (Profiler) väljer du den nya profilen och klickar på **Apply** (Verkställ).

Klart! Installationen av Wireless-G Adapter med SRX för bärbar dator är klar.

D

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Mer information samt felsökningshjälp finns i användarhandboken på cd-skivan och i supportbilagan. Du kan också skicka e-post till vår supportavdelning.

Webbplats
http://www.linksys.com/international

Registrering
http://www.linksys.com/registration

LINKSYS®

A Division of Cisco Systems, Inc.

2,4 GHz
802.11g

WIRELESS

Wireless-G
Notebook Adapter with SRX

User Guide

CISCO SYSTEMS

Model No. **WPC54GX (EU/LA/UK)**

Copyright and Trademarks

This User Guide

The User Guide to the Wireless-G Notebook Adapter with SRX has been designed to make understanding networking easier than ever. Look for the following items when reading this guide:

This checkmark means there is a note of interest and is something you should pay special attention to while using the Adapter.

This exclamation point means there is a caution or warning and is something that could damage your property or the Adapter.

This question mark provides you with a reminder about something you might need to do while using the Adapter.

In addition to these symbols, there are definitions for technical terms that are presented like this:

> ***word:*** *definition.*

Also, each figure (diagram, screenshot, or other image) is provided with a figure number and description, like this:

Figure 0-1: Sample Figure Description

Figure numbers and descriptions can also be found in the "List of Figures" section in the "Table of Contents".

Table of Contents

List of Figures

Chapter 1: Introduction

Welcome

Thank you for choosing the Wireless-G Notebook Adapter with SRX. With this Adapter, your wireless networking experience will be faster and easier than ever.

Like all wireless products, the Adapter allows for greater range and mobility within your wireless network. This adapter communicates over the 54Mbps 802.11g wireless standard, which is almost five times faster than 802.11b. But since they share the same 2.4GHz radio band, the Adapter can also communicate with the widely used 11Mbps 802.11b standard.

PCs equipped with wireless cards and adapters can communicate without cumbersome cables. By sharing the same wireless settings, within their transmission radius, they form a wireless network.

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. At home, you can surf the web or use instant messaging to chat with friends while sitting out on the patio. Your wireless connection is protected by up to 128-bit WEP encryption.

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 with SRX from Linksys.

network: a series of computers or devices connected for the purpose of data sharing, storage, and/or transmission between users.

adapter: a device that adds network functionality to your PC.

802.11b: an IEEE wireless networking standard that specifies a maximum data transfer rate of 11Mbps and an operating frequency of 2.4GHz.

802.11g an IEEE wireless networking standard that specifies a maximum data transfer rate of 54Mbps and an operating frequency of 2.4GHz.

What's in this Guide?

This user guide covers the steps for setting up and using the Wireless-G Notebook Adapter with SRX.

- Chapter 1: Introduction
  This chapter describes the Adapter's applications and this User Guide.

- Chapter 2: Planning Your Wireless Network
  This chapter discusses a few of the basics about wireless networking.

- Chapter 3: Getting to Know the Wireless-G Notebook Adapter
  This chapter describes the physical features of the Adapter.

- Chapter 4: Software Installation and Configuration
  This chapter instructs you on how to install the Adapter's Setup Wizard and Configure the Adapter

- Chapter 5: Hardware Installation
  This chapter shows you how to connect the Adapter to your PC.

- Chapter 6: Using the Wireless Network Utility
  This chapter show you how to use the Adapter's Wireless Network Utility.

- Appendix A: Troubleshooting
  This appendix describes some problems and solutions, as well as frequently asked questions, regarding installation and use of the Adapter.

- Appendix B: Wireless Security
  This appendix discusses security issues regarding wireless networking and measures you can take to help protect your wireless network.

- Appendix C: Windows Help
  This appendix describes how you can use Windows Help for instructions about networking, such as installing the TCP/IP protocol.

- Appendix D: Glossary
  This appendix gives a brief glossary of terms frequently used in networking.

- Appendix E: Specifications
  This appendix provides the Adapter's technical specifications.

- Appendix F: Warranty Information
  This appendix supplies the Adapter's warranty information.

- Appendix G: Regulatory Information
  This appendix supplies the Adapter's regulatory information.

- Appendix H: Contact Information
  This appendix provides contact information for a variety of Linksys resources, including Technical Support.

Chapter 2: Planning Your Wireless Network

Network Topology

A wireless network is a group of computers, each equipped with one wireless adapter. Computers in a wireless network must be configured to share the same radio channel. Several PCs equipped with wireless cards or adapters can communicate with one another to form an ad-hoc network.

Linksys wireless adapters also provide users access to a wired network when using an access point or wireless router. An integrated wireless and wired network is called an infrastructure network. Each wireless PC in an infrastructure network can talk to any computer in a wired network infrastructure via the access point or wireless router.

An infrastructure configuration extends the accessibility of a wireless PC to a wired network, and can double the effective wireless transmission range for two wireless adapter PCs. Since an access point is able to forward data within a network, the effective transmission range in an infrastructure network can be doubled.

Roaming

Infrastructure mode also supports roaming capabilities for mobile users. Roaming means that you can move your wireless PC within your network and the access points will pick up the wireless PC's signal, providing that they both share the same channel and SSID.

Before enabling you consider roaming, choose a feasible radio channel and optimum access point position. Proper access point positioning combined with a clear radio signal will greatly enhance performance.

topology: the physical layout of a network.

ad-hoc: a group of wireless devices communicating directly with each other (peer-to-peer) without the use of an access point.

infrastructure: a wireless network that is bridged to a wired network via an access point.

roaming: the ability to take a wireless device from one access point's range to another without losing the connection.

ssid: your wireless network's name.

Network Layout

Linksys wireless access points and wireless routers have been designed for use with 802.11a, 802.11b, and 802.11g products. With 802.11g products communicating with the 802.11b standard and some products incorporating both "a" and "g", products using these standards can communicate with each other.

Access points and wireless routers are compatible with 802.11a, 802.11b and 802.11g adapters, such at the PC Cards for your laptop computers, PCI Card for your desktop PC, and USB Adapters for when you want to enjoy USB connectivity. Wireless products will also communicate with the wireless PrintServer.

When you wish to connect your wired network with your wireless network, network ports on access points and wireless routers can be connected to any of Linksys's switches or routers.

With these, and many other, Linksys products, your networking options are limitless. Go to the Linksys website at www.linksys.com/international for more information about wireless products.

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

The LED Indicators

The Network Adapter's LEDs display information about network activity.

Figure 3-1: Front Panel

Power   *Green*. The Power LED lights up when the Adapter is powered on.

Link   *Green*. The Link LED lights up when the Adapter has an active connection.

Chapter 4: Software Installation and Configuration

The Wireless-G Notebook Adapter with SRX Setup Wizard will guide you through the installation procedure. The Setup Wizard will install the Wireless Client Utility and driver, as well as configure the Adapter.

NOTE: You must run the Setup Wizard to install the software before installing the Adapter.

Power up your computer. 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 the **Start** button and choose **Run**. In the field that appears, enter **D:\setup.msi** (if "D" is the letter of your CD-ROM drive).

On the *Welcome* screen, you have the following choices:

Click the **Click Here to Start** button to start the Setup Wizard installation process.

Install WPA Utility- Click the **Install WPA Utility** button to install the Utility.

User Guide - Click the **User Guide** button to open the PDF file of this User Guide.

Exit - Click the **Exit** button to exit the Setup Wizard.

The Installation Procedure

1. To install the Adapter, click the **Click Here to Start** button on the Welcome screen.

2. When the *InstallShield Wizard Welcome* screen appears, click **Next**.

Figure 4-1: The Setup Wizard's Welcome Screen
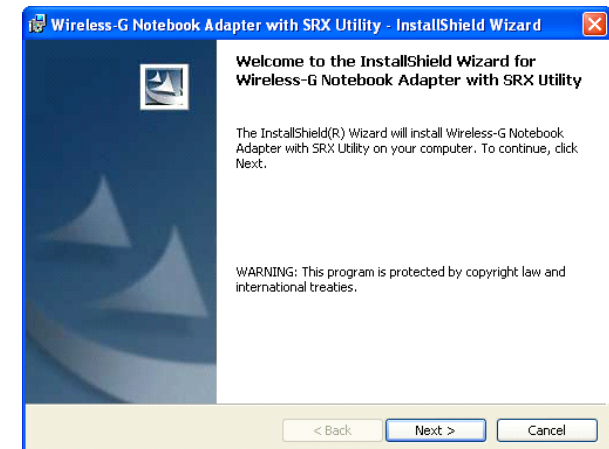
Figure 4-2: InstallShield's Welcome Screen

3. After reading the License Agreement, select **I accept the terms in the license agreement** and click the
    Next button if you agree, or click the **Cancel** button to end the installation.
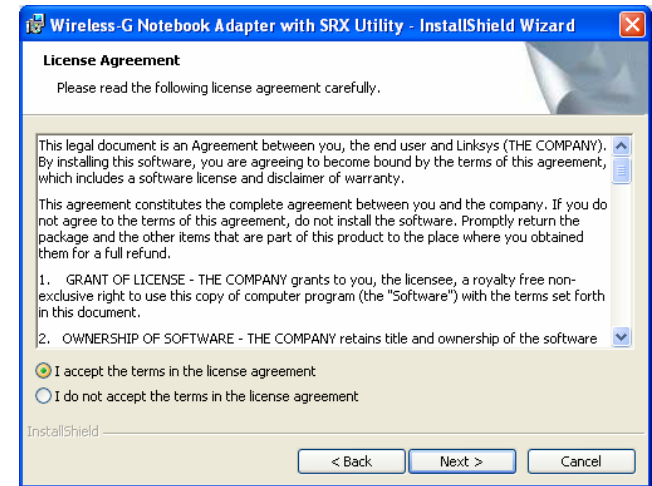
Figure 4-3: License Agreement

4. The *Customer Information* screen appears next. Enter the User Name and name of your organization in the
    fields. Then, choose who will be permitted access to the Utility. For all users, select **Anyone who uses this
    computer (all users)**, or for the specified user, select **Only for me (Marketing)**

    Click the **Next** button to continue. Click the **Back** button if you want if you want to return to the previous
    screen. Click the **Cancel** button to cancel the installation.
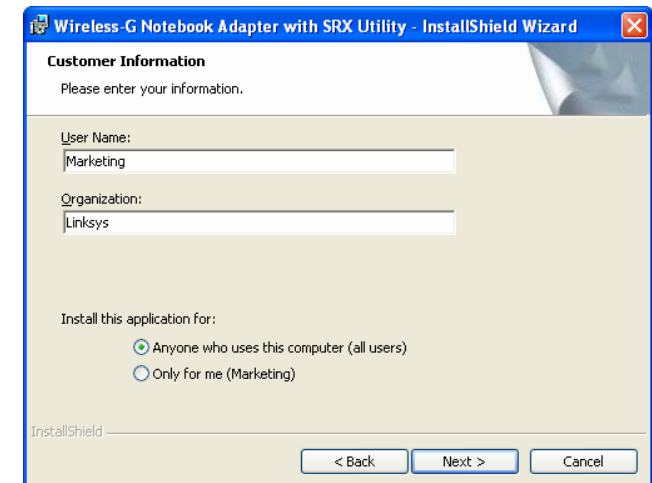
Figure 4-4: Customer Information

5. The *Setup Type* screen will appear next. Select **Complete** and all the features will be installed automatically for you. If you want to do a custom installation, and install the Utility in a different location, click **Custom**.

   Click the **Next** button to continue. Click the **Back** button if you want to return to the previous screen. Click the **Cancel** button to cancel the installation.
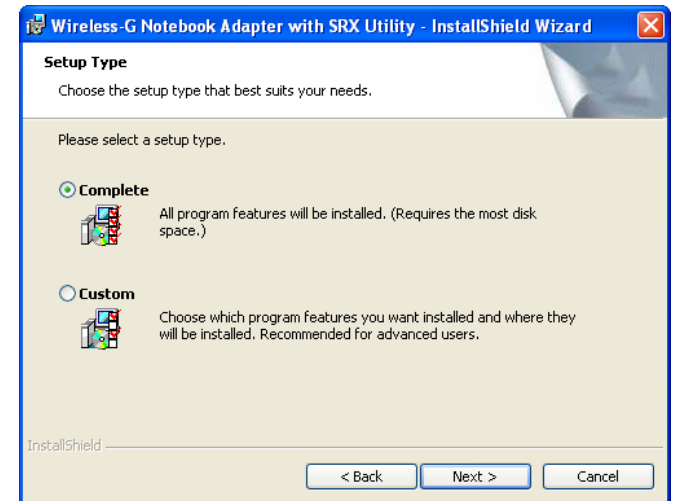
Figure 4-5: Setup Type

6. When the *Ready to Install the Program* screen appears, click the **Install** button.

   Click the **Back** button if you want to return to the previous screen. Click the **Cancel** button to cancel the installation.
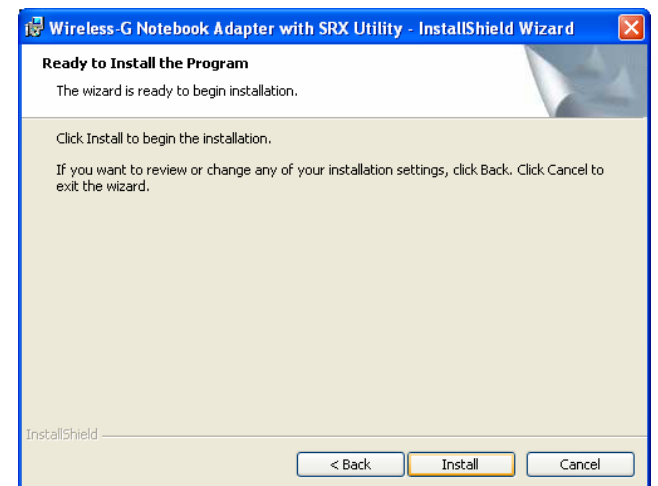
Figure 4-6: Ready to Install the Program

7. A screen will appear during installation.
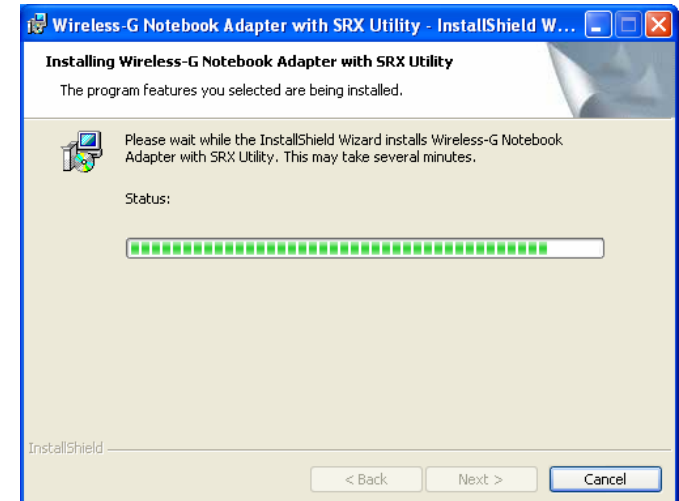
Figure 4-7: Installing the Software

8. This screen will appear after the software has been successfully installed. Click the **Finish** button to exit the Wizard.

Proceed to "Chapter 5: Hardware Installation."
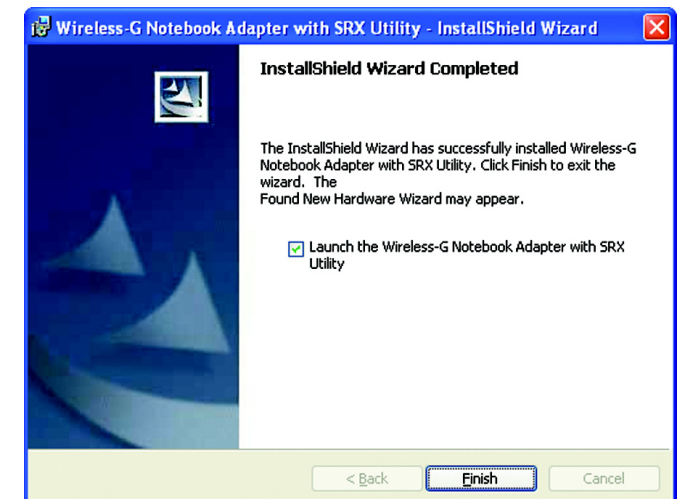
Figure 4-8: Setup Wizard Complete

Chapter 5: Hardware Installation

NOTE: You must run the Setup Wizard to install the software before installing the hardware.

Connecting the Adapter

1. Turn off your notebook PC.

2. Locate an available CardBus slot on your notebook PC.

3. With the connector pin end facing the CardBus slot and the label facing up, slide the Adapter into the CardBus slot until it locks in place.

4. Restart your notebook PC. The Power LED should light up when the Adapter is installed correctly.

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 correct location (e.g., D:\).

Figure 5-1: How the Adapter installs into your notebook

The installation of the Wireless-G Notebook Adapter with SRX is complete.

If you want to check the link information, search for available wireless networks, or make additional configuration changes, go to "Chapter 6: Using the Wireless Network Utility."

Chapter 6: Using the Wireless Network Utility

The chapter provides an overview of wireless networking and explains how to access the Utility to configure your Adapter. It includes the following topics: Overview of Wireless Networking, Service Set Identifiers, Overview, Accessing the Utility, Navigating the User Interface.

Accessing the Utility

After installing the Adapter, the Wireless Network Utility icon will appear in your system tray. Double-click the icon.

System Tray Wireless Network Utility icon's right-click menu options

Show. Opens the Wireless Network Utility window.

Radio On/Off. Turns the Adapter radio on or off.

Help. Opens the online help system.

About. Displays information that may be helpful for technical support.

Exit. Exits the Wireless Network Utility. To restart the Utility after exiting, you must use the Start menu.

Navigating the Utility

Top Display

Status. Indicates whether the Adapter is currently associated to a working AP.

Network. If Status is connected, lists the name of the network to which the Adapter is connected.

AP Name. If Status is connected, lists the name of the AP to which the Adapter is connected.

Channel (Mode). If Status is connected, lists the radio channel used and the 802.11 mode (b or g).

Figure 6-1: Wireless Network Utility Icon
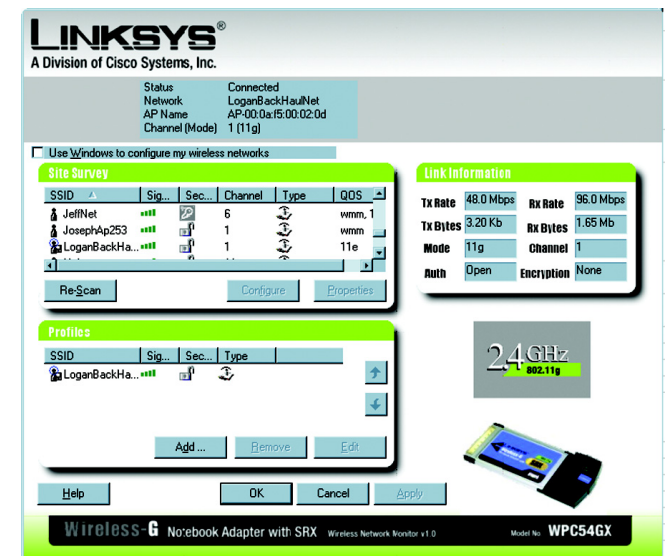
Figure 6-2: Main Screen

Windows Configuration Checkbox

A checkbox entitled *Use Windows to configure my wireless networks* is located just below the top display section. Select this checkbox to use Wireless Zero Config (WZC) to configure the Adapter. WZC is required to use Wi-Fi Protected Access (WPA) as the security mode when connecting to the network. If you use WZC to configure the Adapter, you can still use the Wireless Network Utility to monitor available networks and check connection status.

Site Survey (Available Networks) List

The Site Survey section of the Wireless Network Utility window lists all the working networks within radio range of your Adapter. The following information is presented:

Icon	Column	Description
	SSID	Name of the network, associated
	SSID	Name of the network, not associated
	Signal quality	Signal strength, as a percentage: Four solid green bars, 60% or greater
	Signal quality	Signal strength, as a percentage: Three solid green bars, one hollow green: 40-60%
	Signal quality	Signal strength, as a percentage: Two solid yellow, two hollow yellow bars, 20-40%
	Signal quality	Signal strength, as a percentage: One solid yellow bar, three hollow yellow bars, 5-20%
	Signal quality	Signal strength, as a percentage: All red hollow bars, less than 5%
	Security	Open security
	Security	WEP security

Icon	Column	Description
![security icon]	Security	WPA security
	Channel	Current radio channel used for communications between the Adapter and the access point
	Type	Infrastructure or ad-hoc network
	QoS	Applicable wireless quality of service (QoS) settings for Wi-Fi multimedia (WMM) and 802.11e QoS

Perform any of the following operations on the Site Survey list:

Re-Scan Button. Causes the Adapter software to immediately scan for all the wireless networks within radio range. Detected networks are presented in the Site Survey list. Background scanning for available networks occurs by default every five seconds.

Configure Button. Open the Profile Editor window (See "Working with Profiles" on page 18.)

Resize columns. Select and move the column header dividers.

Sort entries by column. Click the column header. The arrow that appears indicates the sort order (upward facing for ascending and downward facing for descending). To change the sort order, click the column header again.

Add or remove columns. Right-click on the column header, and select or deselect columns.

Reorder columns. Drag the column headers to reorder the columns.

Properties. Displays network details. Select one or more networks and click **Properties** to open the Properties window. All APs for the selected networks are displayed.

Properties

BSSID. IDs of the APs belonging to the selected SSIDs.

SSID. ID of the selected networks.

Security. Security mode (WEP, WPA, or open).

Supported Rates. All data rates supported by the access point.
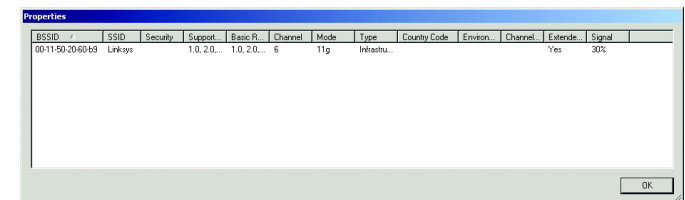
Figure 6-3: Properties

Basic Rates. Minimum data rates supported by the access point.

Channel. Radio channel used for communication between the Adapter and access point.

Mode. 802.11 mode (b or g).

Type. Network type (Infrastructure or Ad-hoc).

Country Code. International Standards Organization (ISO) standards for frequency selection based on country-specific regulations.

Environment. Type of physical environment (Indoor, Outdoor, or Both).

Channel List. Available operating channels.

Extended Data Rate. Use of enhanced data rates (Yes, or No).

Signal strength. Strength of the radio signal, as a percentage.

Profiles

The Profiles list shows all the networks for which a network profile is defined. For information on using profiles, see "Working with Profiles".

SSID. Name of the network.

Signal quality. Quality of the radio signal.

Security. Type of active security.

Type. Infrastructure or ad-hoc network.

Profile Operations

Add Button. Click Add to open the Profile Editor to create a new profile.

Remove Button. Click Remove to eliminate a network from the Configured Networks list.

Edit Button. Click Edit to edit the selected network using the Profile Editor.

Change network order. Highlight an entry and use the arrows to the right of the list to move the entry up or down.

Resize columns. Select and move the column header dividers.

Sort entries by column. Click the column header. The arrow that appears indicates the sort order (upward facing for ascending and downward facing for descending). To change the sort order, click the column header again.

Main Buttons

The following buttons are located near the bottom of the main screen.

Help. Open the online help system.

OK. Save changes and then close the Utility window without quitting the application. To exit the application, use the system tray right-click menu.

Cancel. Cancel changes if they have not been saved.

Apply. Make the selected configured network active.

Link Information

This area displays read-only information about the current connection and settings:

Transmit Rate. Current connection rate for data transmitted from your PC to the access point.

Transmit Bytes. Number of bytes of data transmitted since your Adapter was last enabled.

Mode. 802.11 radio frequency band used for communications.

Authentication. Method of client identification.

Receive Rate. Current connection rate for data received by your PC from the access point.

Receive Bytes. Number of bytes of data received since the Adapter was last enabled.

Channel. Radio channel used for communications.

Encryption. Method of protecting data integrity.

Monitoring Network Connection Status

Once a profile is activated and you are associated to the selected network, the main Utility presents status information. The SSID icon changes to active and in the top left area of the window, an SSID signal indicator shows the overall strength of all APs that are configured for that SSID.

Using the Utility

The Utility uses profiles to store information describing how your Adapter connects to the wireless network. Each profile contains information about the type of network connection and security settings.

To make it easy to connect to wireless networks at home, office, or wireless hotspot locations, the Utility allows you to create multiple profiles, each containing information about a different network or a different set of configuration values. When you move from one location to another, your Adapter automatically detects which network is currently available and applies the correct profile. The Configured Networks list in the Utility's main window contains an entry for each profile.

The following rules apply when connecting to a wireless network:

- The Utility always attempts to connect to a network with a configured profile, in the order in which the configured networks are listed.

- If there are no previously configured networks, or if it is not possible to connect to any currently configured networks, the Adapter attempts to connect to the AP with the best signal quality, open authentication, and no encryption.

- If all the connection options fail, or if you want to connect to a different available network, you can create a profile for the network with appropriate security parameters. This adds the network to the Configured Networks list and makes it available for automatic connection in the future.

Scanning for Available Networks (Site Survey)

After the driver is loaded, the Adapter scans for all access points within radio range and attempts to connect to one of them based on previously scanned profiles. It associates to the first access point it finds for which it can establish radio communications. Although association normally happens automatically; it is recommended that you keep the Utility running while you are connected. This enables you to verify the configuration and confirm that the access point to which you are connected is a trusted component of your network.

Whenever you open the Utility, the system performs an automatic scan. You can also scan for networks on demand, at any time.

To scan for available networks:

- Choose **Start > Programs > Linksys> Wireless-G Notebook Adapter with SRX Utility**. This displays the application icon in the system tray. Click **Re-Scan**.

- The Re-Scan button is disabled while scanning takes place. When the scan is complete, the Site Survey list displays all the discovered networks.

Working with Profiles

Profiles store configuration information about how your Adapter connects to specific wireless networks. Use the Profile Editor to create new profiles or modify existing ones.

Profile Editor

SSID. Service Set Identifier (SSID) is a name that uniquely identifies a wireless local area network. Each device in the wireless network must have the same SSID configured in order to participate in the network.

BSSID. Basic Service Set (BSS) is the collection of wireless devices operating with an individual access point in infrastructure mode or without an access point in ad-hoc mode.

Network Type. The Network Type indicates the type of network arrangement.

- Infrastructure. Refers to an existing wireless network, usually with an interface to a wired network, for Internet and email access, file sharing, and print and other services.

- Ad Hoc. Refers to a temporary wireless network that has been set up by another user.

- Start Ad-Hoc Network. Permits you to set up a new ad-hoc network to communicate with other PCs without using an access point.

Channel. In infrastructure networks, the channel used for radio communications is determined at the access point and for ad-hoc networks, the channel is determined by the user who starts the network. It is necessary to select a channel only if you are starting a new ad-hoc network.

Authentication. The authentication and encryption settings provide options for configuring a secure connection between your PC and access point. The following authentication options are available:

- Open. No authentication.

- Share. Authentication based on shared keys.

Encryption Type. The following encryption options are available:

- None. No encryption.

- WEP. Encryption based on shared WEP keys.
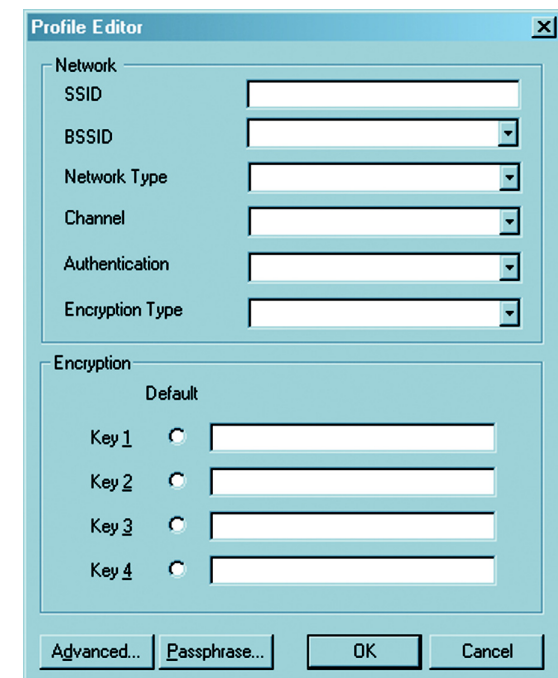
Figure 6-4: Profile Editor

Encryption. If you select WEP encryption, you have a choice of a passphrase or entering a manual encryption key. (To use a passphrase, refer to "Passphrase" section.) Select 64 bits or 128 bits. Enter characters in ASCII format or hexadecimal. hexadecimal (numeric) format: Enter 10 hexadecimal characters for 64 bits; 26 hexadecimal characters for 128 bits. ASCII keys must be 5 characters for 64 bits or 13 characters for 128 bits.

Profile Tasks

To create a profile for an available network:

1. Select the Network and click **Configure**. The Profile Editor window opens with the SSID, BSSID, Network Type, and Channel fields already filled in.

2. Select an authentication method and encryption type. If you select WEP as the encryption type, enter encryption key information.

3. Click **OK**. The Profile window closes and the newly created profile appears in the Site Survey list in the main window.

You can edit any profile in the list, including the active one. If you edit and apply the active profile, the system temporarily drops the network connection while implementing the changes. When the configuration change is complete, the network connection is restored.

To make a profile active:

Select the profile in the Configured Networks list, and click **Apply**.

To edit a profile:

1. Highlight a name in the Configured Networks list and click **Edit**. The Profile Editor window opens.

2. Enter or confirm authentication and encryption type, and enter WEP keys, if appropriate.

3. Click OK.

To add a new profile not based on an existing profile or network:

1. Click **Add**...

2. The Profile Editor window opens.

3. Enter the SSID of the network. The BSSID is determined automatically when your [Client Adapter] associates to an access point.

4. Select the network type. If you select **Start Ad-Hoc**, enter a radio channel setting for the network. If you select **Infrastructure** or **Ad-Hoc** (for an existing ad-hoc network), the channel is automatically set.

5. Select an authentication and encryption type, and enter the WEP keys, if appropriate.

6. Click **OK**.

To delete a profile:

Highlight the profile name and click **Remove**. Click **OK** when prompted to confirm.

Advanced Profile Settings

The Advanced button to the right of the Profile Name opens the Advanced Profile Settings window. The settings in this window enable you to take advantage of the enhanced performance features of the Adapter. It is recommended that you retain the default Automatic settings for power usage. You may adjust the slide to the left for less power and least performance, and to the right for more power and best performance.

Passphrase

The Passphrase button to the right of the Advanced button opens the Passphrase window. You can use this screen to generate a WEP Key by entering a passphrase. Select 64 Bits or 128 Bits encryption from the Security drop-down menu, enter a passphrase, and the WEP Key will be generated.
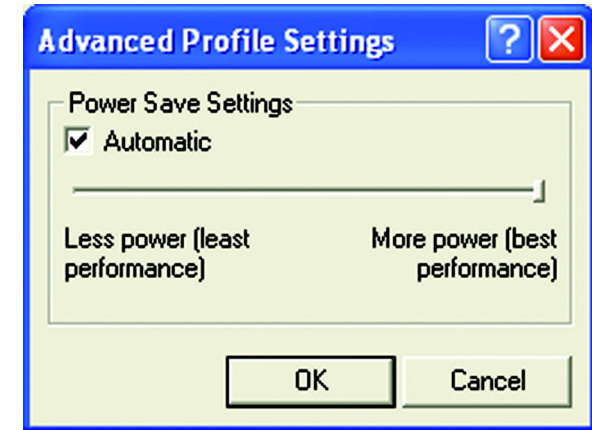
Figure 6-5: Advanced Profile Settings
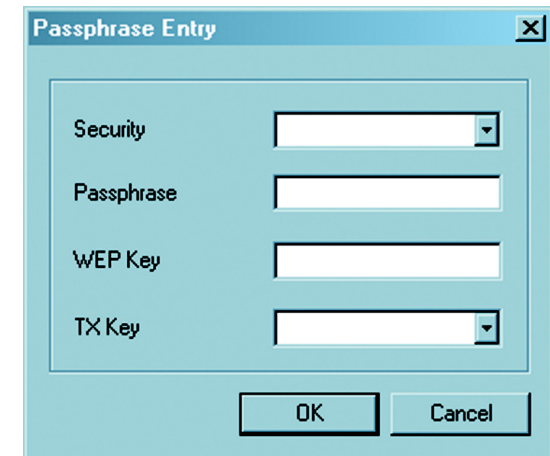
Figure 6-6: Passphrase Entry

Wireless Zero Configuration

The Site Survey list in the Utility window displays the security advertised by the AP.

The Utility supports configuration of WEP or shared key options for authentication and WEP or None options for encryption. In the Profile window, you can select WEP or open security for the radio connection between your PC and the access point and enter choices for encryption and authentication within the selected security framework. For instructions, see Working with Profiles.

Windows XP users can connect to networks that support WPA security provided that the appropriate Microsoft security updates have been installed. To use WPA security, it is necessary to use the Wireless Zero Configuration (WZC) capability native to Windows XP. When WZC is managing the device, the profile features of the Utility are automatically disabled; however, it is still recommended to use the Utility to view scanned networks.

To use WZC to configure security settings:

1. Select **Use Windows to configure my wireless networks** in the Utility main window.

2. Click **OK**.

Now use WZC to configure security settings:

1. Right-click the wireless icon on the system tray.

2. Select **View Available Wireless Networks**.

The appearance of the next dialog box depends upon whether your computer has Windows XP Service Pack 1 or Service Pack 2 installed.

For Service Pack 2, the following window opens. (Figure 6-7)

1. Select the network, and click **Connect**.

2. If the network requires a security password or key, you are prompted to enter the key. This occurs, for instance, if WPA-PSK security is currently used in the network.

3. The system connects the Adapter to the network and presents a star icon, indicating that a successful connection was made. A balloon message also appears in the system tray.

For Service Pack 1, a window opens to show the list of available networks. (Figure 6-8)
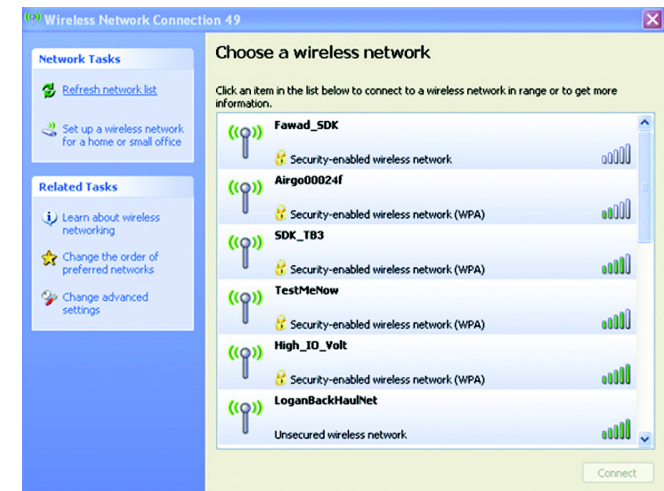
Figure 6-7: Choose a Wireless Network
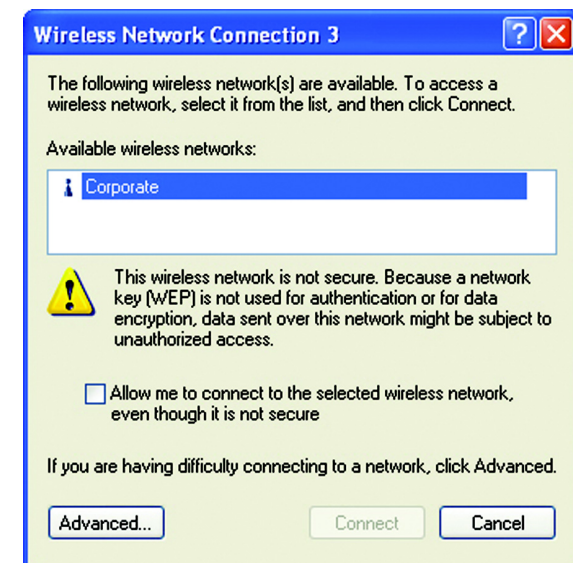
Figure 6-8: Available Wireless Networks

1. Select your network, and click **Advanced** to open the Wireless Network Connection Properties window, Wireless Networks tab.

2. Confirm that **Use Windows to configure my wireless network settings** is selected.

3. Select the network, and click **Configure**. (Figure 6-9)
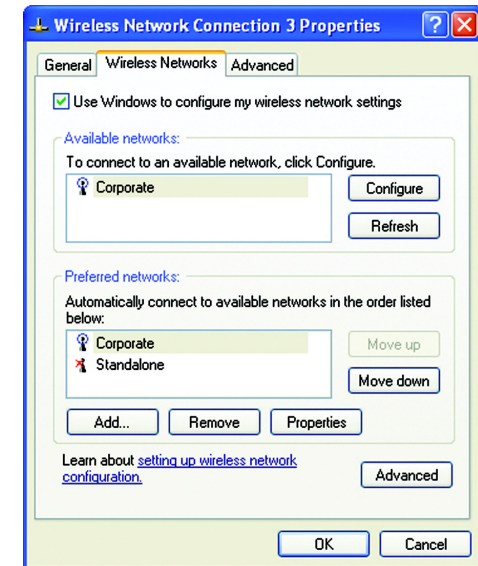
Figure 6-9: Configure the Wireless Network

4. Confirm the authentication and encryption selections exactly match those of the access point to which you are connecting. Enter a network key, if required.

5. If you selected AES for data encryption, open the Authentication tab and select the EAP type appropriate to your network.

6. Click **OK** as needed to close the WZC windows.

NOTE: To revert to using the Utility to manage the network, you must clear the *Use Windows to configure my wireless network settings* checkbox shown in *Confirm that Use Windows to configure my wireless network settings is selected.*
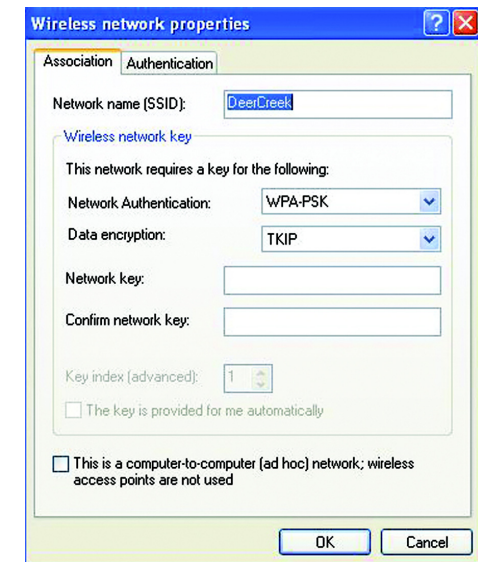
Figure 6-10: Finalize Settings

Appendix A: Troubleshooting

This appendix consists of two parts: "Common Problems and Solutions" and "Frequently Asked Questions." This appendix provides solutions to problems that may occur during the installation and operation of the Wireless-G Notebook Adapter. Read the description below to solve your problems. If you can't find an answer here, check the Linksys website at *www.linksys.com/international.*

Common Problems and Solutions

1. ***My computer does not recognize the Wireless-G Notebook Adapter.***
    Make sure that the Wireless-G Notebook Adapter is properly inserted into the CardBus slot.

2. ***The Wireless-G Notebook Adapter does not work properly.***
    Reinsert the Wireless-G Notebook Adapter into the notebook's CardBus slot.

3. ***I cannot communicate with the other computers linked via Ethernet in the Infrastructure configuration.***
    Make sure that the notebook or desktop is powered on.
    Make sure that the Wireless-G Notebook Adapter is configured with the same SSID and WEP settings 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 802.11g standard?
It is one of the IEEE standards for wireless networks. The 802.11g standard allows wireless networking hardware from different manufacturers to communicate, provided that the hardware complies with the 802.11g standard. The 802.11g standard states a maximum data transfer rate of 54Mbps and an operating frequency of 2.4GHz.

mbps: one million bits per second; a unit of measurement for data transmission.

What IEEE 802.11g features are supported?
The product supports the following IEEE 802.11g 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.

fragmentation: breaking a packet into smaller units when transmitting over a network medium that cannot support the original size of the packet.

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.

ism band: radio bandwidth utilized in wireless transmissions.

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).

spread spectrum: wideband radio frequency technique used for more reliable and secure data transmission.

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.

dsss: Frequency transmission with a redundant bit pattern resulting in a lower probability of information being lost in transit.

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 shared key algorithm, as described in the IEEE 802.11 standard.

Appendix B: Wireless Security

Linksys wants to make wireless networking as safe and easy for you as possible. The current generation of Linksys products provide several network security features, but they require specific action on your part for implementation. So, keep the following in mind whenever you are setting up or using your wireless network.

Security Precautions

The following is a complete list of security precautions to take (at least steps 1 through 5 should be followed):

1. Change the default SSID.

2. Disable SSID Broadcast.

3. Change the default password for the Administrator account.

4. Enable MAC Address Filtering.

5. Change the SSID periodically.

6. Use the highest encryption algorithm possible. Use WPA if it is available. Please note that this may reduce your network performance.

7. Change the WEP encryption keys periodically.

NOTE: Some of these security features are available only through the network router or access point. Refer to the router or access point's documentation for more information.

Security Threats Facing Wireless Networks

Wireless networks are easy to find. Hackers know that in order to join a wireless network, wireless networking products first listen for "beacon messages". These messages can be easily decrypted and contain much of the network's information, such as the network's SSID (Service Set Identifier). Here are the steps you can take:

Change the administrator's password regularly. With every wireless networking device you use, keep in mind that network settings (SSID, WEP keys, etc.) are stored in its firmware. Your network administrator is the only person who can change network settings. If a hacker gets a hold of the administrator's password, he, too, can change those settings. So, make it harder for a hacker to get that information. Change the administrator's password regularly.

SSID. There are several things to keep in mind about the SSID:

1. Disable Broadcast

2. Make it unique

3. Change it often

Most wireless networking devices will give you the option of broadcasting the SSID. While this option may be more convenient, it allows anyone to log into your wireless network. This includes hackers. So, don't broadcast the SSID.

Wireless networking products come with a default SSID set by the factory. (The Linksys default SSID is "linksys".) Hackers know these defaults and can check these against your network. Change your SSID to something unique and not something related to your company or the networking products you use.

Change your SSID regularly so that any hackers who have gained access to your wireless network will have to start from the beginning in trying to break in.

MAC Addresses. Enable MAC Address filtering. MAC Address filtering will allow you to provide access to only those wireless nodes with certain MAC Addresses. This makes it harder for a hacker to access your network with a random MAC Address.

WEP Encryption. Wired Equivalent Privacy (WEP) is often looked upon as a cure-all for wireless security concerns. This is overstating WEP's ability. Again, this can only provide enough security to make a hacker's job more difficult.

There are several ways that WEP can be maximized:

1. Use the highest level of encryption possible

2. Use "Shared Key" authentication

3. Change your WEP key regularly

WPA. Wi-Fi Protected Access (WPA) is the newest and best available standard in Wi-Fi security. Three modes are available: WPA-PSK, WPA Radius, and Radius. WPA-PSK gives you a choice of two encryption methods: TKIP (Temporal Key Integrity Protocol), which utilizes a stronger encryption method and incorporates Message Integrity Code (MIC) to provide protection against hackers, and AES (Advanced Encryption System), which utilizes a symmetric 128-Bit block data encryption. WPA RADIUS offers two encryption methods, TKIP and AES, with dynamic encryption keys. RADIUS (Remote Authentication Dial-In User Service) utilizes a RADIUS server for authentication.

IMPORTANT: Always remember that each device in your wireless network MUST use the same encryption method and encryption key or your wireless network will not function properly.

WPA-PSK. If you do not have a RADIUS server, Select the type of algorithm, TKIP or AES, and enter a password in the Passphrase field of 8-63 characters.

WPA RADIUS. WPA used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router or other device.) WPA Radius offers two encryption methods, TKIP and AES, with dynamic encryption keys.

RADIUS. WEP used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router or other device.)

Implementing encryption may have a negative impact on your network's performance, but if you are transmitting sensitive data over your network, encryption should be used.

These security recommendations should help keep your mind at ease while you are enjoying the most flexible and convenient technology Linksys has to offer.

Appendix C: Windows Help

Almost all wireless products require Microsoft Windows. Windows is the most used operating system in the world and comes with many features that help make networking easier. These features can be accessed through Windows Help and are described in this appendix.

TCP/IP

Before a computer can communicate with an access point or wireless router, TCP/IP must be enabled. TCP/IP is a set of instructions, or protocol, all PCs follow to communicate over a network. This is true for wireless networks as well. Your PCs will not be able to utilize wireless networking without having TCP/IP enabled. Windows Help provides complete instructions on enabling TCP/IP.

Shared Resources

If you wish to share printers, folder, or files over your network, Windows Help provides complete instructions on utilizing shared resources.

Network Neighborhood/My Network Places

Other PCs on your network will appear under Network Neighborhood or My Network Places (depending upon the version of Windows you're running). Windows Help provides complete instructions on adding PCs to your network.

Appendix D: Glossary

802.11a - An IEEE wireless networking standard that specifies a maximum data transfer rate of 54Mbps and an operating frequency of 5GHz.

802.11b - An IEEE wireless networking standard that specifies a maximum data transfer rate of 11Mbps and an operating frequency of 2.4GHz.

802.11g - An IEEE wireless networking standard that specifies a maximum data transfer rate of 54Mbps, an operating frequency of 2.4GHz, and backward compatibility with 802.11b devices.

Access Point - A device that allows wireless-equipped computers and other devices to communicate with a wired network. Also used to expand the range of a wireless network.

Adapter - A device that adds network functionality to your PC.

Ad-hoc - A group of wireless devices communicating directly with each other (peer-to-peer) without the use of an access point.

AES (**A**dvanced **E**ncryption **S**tandard) - A method that uses up to 256-bit key encryption to secure data.

Backbone - The part of a network that connects most of the systems and networks together, and handles the most data.

Bandwidth - The transmission capacity of a given device or network.

Beacon Interval - Data transmitted on your wireless network that keeps the network synchronized.

Bit - A binary digit.

Boot - To start a device and cause it to start executing instructions.

Bridge - A device that connects different networks.

Broadband - An always-on, fast Internet connection.

Browser - An application program that provides a way to look at and interact with all the information on the World Wide Web.

Buffer - A shared or assigned memory area that is used to support and coordinate different computing and networking activities so one isn't held up by the other.

Byte - A unit of data that is usually eight bits long

Cable Modem - A device that connects a computer to the cable television network, which in turn connects to the Internet.

CSMA/CA (**C**arrier **S**ense **M**ultiple **A**ccess/**C**ollision **A**voidance) - A method of data transfer that is used to prevent data collisions.

CTS (**C**lear **T**o **S**end) - A signal sent by a wireless device, signifying that it is ready to receive data.

Daisy Chain - A method used to connect devices in a series, one after the other.

Database - A collection of data that is organized so that its contents can easily be accessed, managed, and updated.

DDNS (**D**ynamic **D**omain **N**ame **S**ystem) - Allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (e.g., www.xyz.com) and a dynamic IP address.

Default Gateway - A device that forwards Internet traffic from your local area network.

DHCP (**D**ynamic **H**ost **C**onfiguration **P**rotocol) - A networking protocol that allows administrators to assign temporary IP addresses to network computers by "leasing" an IP address to a user for a limited amount of time, instead of assigning permanent IP addresses.

DMZ (**De**militarized **Z**one) - Removes the Router's firewall protection from one PC, allowing it to be "seen" from the Internet.

DNS (**D**omain **N**ame **S**erver) - The IP address of your ISP's server, which translates the names of websites into IP addresses.

Domain - A specific name for a network of computers.

Download - To receive a file transmitted over a network.

DSL (**D**igital **S**ubscriber **L**ine) - An always-on broadband connection over traditional phone lines.

DSSS (**D**irect-**S**equence **S**pread-**S**pectrum) - Frequency transmission with a redundant bit pattern resulting in a lower probability of information being lost in transit.

DTIM (**D**elivery **T**raffic **I**ndication **M**essage) - A message included in data packets that can increase wireless efficiency.

Dynamic IP Address - A temporary IP address assigned by a DHCP server.

EAP (**E**xtensible **A**uthentication **P**rotocol) - A general authentication protocol used to control network access. Many specific authentication methods work within this framework.

EAP-PEAP (**E**xtensible **A**uthentication **P**rotocol-**P**rotected **E**xtensible **A**uthentication **P**rotocol) - A mutual authentication method that uses a combination of digital certificates and another system, such as passwords.

EAP-TLS (**E**xtensible **A**uthentication **P**rotocol-**T**ransport **L**ayer **S**ecurity) - A mutual authentication method that uses digital certificates.

Encryption - Encoding data transmitted in a network.

Ethernet - IEEE standard network protocol that specifies how data is placed on and retrieved from a common transmission medium.

Finger - A program that tells you the name associated with an e-mail address.

Firewall - A set of related programs located at a network gateway server that protects the resources of a network from users from other networks.

Firmware - The programming code that runs a networking device.

Fragmentation -Breaking a packet into smaller units when transmitting over a network medium that cannot support the original size of the packet.

FTP (**F**ile **T**ransfer **P**rotocol) - A protocol used to transfer files over a TCP/IP network.

Full Duplex - The ability of a networking device to receive and transmit data simultaneously.

Gateway - A device that interconnects networks with different, incompatible communications protocols.

Half Duplex - Data transmission that can occur in two directions over a single line, but only one direction at a time.

Hardware - The physical aspect of computers, telecommunications, and other information technology devices.

HTTP (**H**yper**T**ext **T**ransport **P**rotocol) - The communications protocol used to connect to servers on the World Wide Web.

IEEE (The **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers) - An independent institute that develops networking standards.

Infrastructure - A wireless network that is bridged to a wired network via an access point.

IP (**I**nternet **P**rotocol) - A protocol used to send data over a network.

IP Address - The address used to identify a computer or device on a network.

IPCONFIG - A Windows 2000 and XP utility that displays the IP address for a particular networking device.

IPSec (**I**nternet **P**rotocol **S**ecurity) - A VPN protocol used to implement secure exchange of packets at the IP layer.

ISM band - Radio bandwidth utilized in wireless transmissions.

ISP (**I**nternet **S**ervice **P**rovider) - A company that provides access to the Internet.

LAN - The computers and networking products that make up your local network.

LEAP (**L**ightweight **E**xtensible **A**uthentication **P**rotocol) - A mutual authentication method that uses a username and password system.

MAC (**M**edia **A**ccess **C**ontrol) **Address** - The unique address that a manufacturer assigns to each networking device.

Mbps (**M**ega**B**its **P**er **S**econd) - One million bits per second; a unit of measurement for data transmission.

mIRC - An Internet Relay Chat program that runs under Windows.

Multicasting - Sending data to a group of destinations at once.

NAT (**N**etwork **A**ddress **T**ranslation) - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.

Network - A series of computers or devices connected for the purpose of data sharing, storage, and/or transmission between users.

NNTP (**N**etwork **N**ews **T**ransfer **P**rotocol) - The protocol used to connect to Usenet groups on the Internet.

Node - A network junction or connection point, typically a computer or work station.

OFDM (**O**rthogonal **F**requency **D**ivision **M**ultiplexing) - Frequency transmission that separates the data stream into a number of lower-speed data streams, which are then transmitted in parallel to prevent information from being lost in transit.

Packet - A unit of data sent over a network.

Passphrase - Used much like a password, a passphrase simplifies the WEP encryption process by automatically generating the WEP encryption keys for Linksys products.

Ping (**P**acket **IN**ternet **G**roper) - An Internet utility used to determine whether a particular IP address is online.

POP3 (**P**ost **O**ffice **P**rotocol **3**) - A standard mail server commonly used on the Internet.

Port - The connection point on a computer or networking device used for plugging in cables or adapters.

Power **o**ver **E**thernet (**PoE**) - A technology enabling an Ethernet network cable to deliver both data and power.

PPPoE (**P**oint to **P**oint Protocol **o**ver **E**thernet) - A type of broadband connection that provides authentication (username and password) in addition to data transport.

PPTP (**P**oint-to-**P**oint **T**unneling **P**rotocol) - A VPN protocol that allows the Point to Point Protocol (PPP) to be tunneled through an IP network. This protocol is also used as a type of broadband connection in Europe.

Preamble - Part of the wireless signal that synchronizes network traffic.

RADIUS (**R**emote **A**uthentication **D**ial-**I**n **U**ser **S**ervice) - A protocol that uses an authentication server to control network access.

RJ-45 (**R**egistered **J**ack**-45**) - An Ethernet connector that holds up to eight wires.

Roaming - The ability to take a wireless device from one access point's range to another without losing the connection.

Router - A networking device that connects multiple networks together.

RTS (**R**equest **T**o **S**end) - A networking method of coordinating large packets through the RTS Threshold setting.

Server - Any computer whose function in a network is to provide user access to files, printing, communications, and other services.

SMTP (**S**imple **M**ail **T**ransfer **P**rotocol) - The standard e-mail protocol on the Internet.

SNMP (**S**imple **N**etwork **M**anagement **P**rotocol) - A widely used network monitoring and control protocol.

Software - Instructions for the computer. A series of instructions that performs a particular task is called a "program".

SOHO (**S**mall **O**ffice/**H**ome **O**ffice) - Market segment of professionals who work at home or in small offices.

SPI (**S**tateful **P**acket **I**nspection) **Firewall** - A technology that inspects every incoming packet of information before allowing it to enter the network.

Spread Spectrum - Wideband radio frequency technique used for more reliable and secure data transmission.

SSID (**S**ervice **S**et **ID**entifier) - Your wireless network's name.

Static IP Address - A fixed address assigned to a computer or device that is connected to a network.

Static Routing - Forwarding data in a network via a fixed path.

Subnet Mask - An address code that determines the size of the network.

Switch - 1. A data switch that connects computing devices to host computers, allowing a large number of devices to share a limited number of ports. 2. A device for making, breaking, or changing the connections in an electrical circuit.

TCP (**T**ransmission **C**ontrol **P**rotocol) - A network protocol for transmitting data that requires acknowledgement from the recipient of data sent.

TCP/IP (**T**ransmission **C**ontrol **P**rotocol/**I**nternet **P**rotocol) - A set of instructions PCs use to communicate over a network.

Telnet - A user command and TCP/IP protocol used for accessing remote PCs.

TFTP (**T**rivial **F**ile **T**ransfer **P**rotocol) - A version of the TCP/IP FTP protocol that has no directory or password capability.

Throughput - The amount of data moved successfully from one node to another in a given time period.

TKIP (**T**emporal **K**ey **I**ntegrity **P**rotocol) - a wireless encryption protocol that provides dynamic encryption keys for each packet transmitted.

Topology - The physical layout of a network.

TX Rate - Transmission Rate.

UDP (**U**ser **D**atagram **P**rotocol) - A network protocol for transmitting data that does not require acknowledgement from the recipient of the data that is sent.

Upgrade - To replace existing software or firmware with a newer version.

Upload - To transmit a file over a network.

URL (**U**niform **R**esource **L**ocator) - The address of a file located on the Internet.

VPN (**V**irtual **P**rivate **N**etwork) - A security measure to protect data as it leaves one network and goes to another over the Internet.

WAN (**W**ide **A**rea **N**etwork)- The Internet.

WEP (**W**ired **E**quivalent **P**rivacy) - A method of encrypting network data transmitted on a wireless network for greater security.

WINIPCFG - A Windows 98 and Me utility that displays the IP address for a particular networking device.

WLAN (**W**ireless **L**ocal **A**rea **N**etwork) - A group of computers and associated devices that communicate with each other wirelessly.

WPA (**W**i-Fi **P**rotected **A**ccess) - a wireless security protocol using TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.

Appendix E: Specifications

Standards	IEEE 802.11g, IEEE 802.11b, CardBus
LEDs	Power, Link
Transmit Power	20dBm for Wireless-B/14dBm for Wireless-G
Protocols	802.11b: CCK, QPSK, BPSK; 802.11g: OFDM
Security Features	WEP, AES, TKIP, 802.1x
WEP Key Bits	64, 128 Bit
Dimensions	122 mm x 54 mm x 10 mm
Unit Weight	0,05 kg
Certifications	FCC, IC-03, CE
Operating Temp.	0ºC to 60ºC
Storage Temp.	-20ºC to 65ºC
Operating Humidity	15-95% Maximum, Non-Condensing
Storage Humidity	95% Maximum, Non-Condensing

Appendix F: Warranty Information

Linksys warrants to You that, for a period of three years (the "Warranty Period"), your Linksys Product will be substantially free of defects in materials and workmanship under normal use. Your exclusive remedy and Linksys' entire liability under this warranty will be for Linksys at its option to repair or replace the Product or refund Your purchase price less any rebates. This limited warranty extends only to the original purchaser.

If the Product proves defective during the Warranty Period call Linksys Technical Support in order to obtain a Return Authorization Number, if applicable. BE SURE TO HAVE YOUR PROOF OF PURCHASE ON HAND WHEN CALLING. If You are requested to return the Product, mark the Return Authorization Number clearly on the outside of the package and include a copy of your original proof of purchase. RETURN REQUESTS CANNOT BE PROCESSED WITHOUT PROOF OF PURCHASE. You are responsible for shipping defective Products to Linksys. Linksys pays for UPS Ground shipping from Linksys back to You only. Customers located outside of the United States of America and Canada are responsible for all shipping and handling charges.

ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to You. This warranty gives You specific legal rights, and You may also have other rights which vary by jurisdiction.

This warranty does not apply if the Product (a) has been altered, except by Linksys, (b) has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, or (c) has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident. In addition, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the Product will be free of vulnerability to intrusion or attack.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT (INCLUDING ANY SOFTWARE), EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS' LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this Agreement fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to You.

This Warranty is valid and may be processed only in the country of purchase.

Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.

Appendix G: Regulatory Information

FCC Statement

This product 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 devices

• Connect the equipment to an outlet other than the receiver's

• Consult a dealer or an experienced radio/TV technician for assistance

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Industry Canada (Canada)

This Class B digital apparatus complies with Canadian ICES-003, RSS210.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations.

Compliance Information for 2.4-GHz Wireless Products Relevant to the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)

Declaration of Conformity with Regard to the EU Directive 1995/5/EC (R&TTE Directive)

Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales asi como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Margyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.

Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

NOTE: If you need any technical documentation, see the "How to Access Technical Documents on www.linksys.com/international" section for more information.

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:
- Radio: EN 300.328
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950

CE Marking

For the Linksys Wireless-B and Wireless-G products, the following CE mark, notified body number (where applicable), and class 2 identifier are added to the equipment.

CE 0560 (!)   or   CE 0678 (!)   or   CE 0984 (!)   or   CE (!)

Check the CE label on the product to find out which notified body was involved during the assessment.

National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesii menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1995/5/CE folgen) mit Außnahme der folgenden aufgeführten Staaten:

Belgium

The Belgian Institute for Postal Services and Telecommunications (BIPT) must be notified of any outdoor wireless link having a range exceeding 300 meters. Please check http://www.bipt.be for more details.

Draadloze verbindingen voor buitengebruik en met een reikwijdte van meer dan 300 meter dienen aangemeld te worden bij het Belgisch Instituut voor postdiensten en telecommunicatie (BIPT). Zie http://www.bipt.be voor meer gegevens.

Les liaisons sans fil pour une utilisation en extérieur d'une distance supérieure à 300 mètres doivent être notifiées à l'Institut Belge des services Postaux et des Télécommunications (IBPT). Visitez http://www.ibpt.be pour de plus amples détails.

France

In case the product is used outdoors, the output power is restricted in some parts of the band. See Table 1 or check http://www.art-telecom.fr/ for more details.

Dans la cas d'une utilisation en extérieur, la puissance de sortie est limitée pour certaines parties de la bande. Reportez-vous à la table 1 ou visitez http://www.art-telecom.fr/ pour de plus amples détails.

Table 1: Applicable Power Levels in France

Location	Frequency Range (MHz)	Power (EIRP)
Indoor (No restrictions)	2400-2483.5	100 mW (20 dBm)
Outdoor	2400-2454 2454-2483.5	100 mW (20 dBm) 10 mW (10 dBm)

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless operating within the boundaries of the owner's property, the use of this 2.4 GHz Wireless LAN product requires a 'general authorization'. Please check with http://www.comunicazioni.it/it/ for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN a 2.4 GHz richiede una "Autorizzazione Generale". Consultare http://www.comunicazioni.it/it/ per maggiori dettagli.

Product Usage Restrictions

This product is designed for indoor usage only. Outdoor usage is not recommended.

This product is designed for use with the included integral or external (dedicated) antenna(s). Use of non-dedicated or third-party antenna(s) is not recommended and is not supported by Linksys.

Power Output of Your Device

To comply with your country's regulations, you may have to change the power output of your wireless device. Proceed to the appropriate section for your device.

Note: The power output setting may not be available on all wireless products. For more information, refer to the documentation on your product's CD or at http://www.linksys.com/international.

Wireless Adapters

Wireless adapters have the power output set to 100% by default. Maximum power output on each adapter does not exceed 20 dBm (100 mW); it is generally 18 dBm (64 mW) or below. If you need to alter your wireless adapter's power output, follow the appropriate instructions for your computer's Windows operating system:

Windows XP

1. Double-click the **Wireless** icon in your desktop's system tray.
2. Open the *Wireless Network Connection* window.
3. Click the **Properties** button.
4. Select the **General** tab, and click the **Configure** button.
5. In the *Properties* window, click the **Advanced** tab.
6. Select **Power Output**.
7. From the pull-down menu on the right, select the wireless adapter's power output percentage.

Windows 2000

1. Open the **Control Panel**.
2. Double-click **Network and Dial-Up Connections**.
3. Select your current wireless connection, and select **Properties**.
4. From the *Properties* screen, click the **Configure** button.
5. Click the **Advanced** tab, and select **Power Output**.
6. From the pull-down menu on the right, select the wireless adapter's power setting.

If your computer is running Windows Millennium or 98, then refer to Windows Help for instructions on how to access the advanced settings of a network adapter.

Wireless Access Points, Routers, or Other Wireless Products

If you have a wireless access point, router or other wireless product, use its Web-based Utility to configure its power output setting (refer to the product's documentation for more information).

Technical Documents on www.linksys.com/international

Follow these steps to access technical documents:

1. Browse to http://www.linksys.com/international.
2. Click the region in which you reside.
3. Click the name of the country in which you reside.
4. Click **Products**.
5. Click the appropriate product category.
6. Select a product.
7. Click the type of documentation you want. The document will automatically open in PDF format.

> Note: If you have questions regarding the compliance of these products or you cannot find the information you are looking for, please contact your local sales office. Visit http://www.linksys.com/international for more details.

Appendix H: Contact Information

Need to contact Linksys?
Visit us online for information on the latest products and updates to your existing products at:
http://www.linksys.com/international

If you experience problems with any Linksys product, you can e-mail us at:

In Europe	E-mail Address
Austria	support.at@linksys.com
Belgium	support.be@linksys.com
Denmark	support.dk@linksys.com
France	support.fr@linksys.com
Germany	support.de@linksys.com
Italy	support.it@linksys.com
Netherlands	support.nl@linksys.com
Norway	support.no@linksys.com
Portugal	support.pt@linksys.com
Spain	support.es@linksys.com
Sweden	support.se@linksys.com
Switzerland	support.ch@linksys.com
United Kingdom & Ireland	support.uk@linksys.com

Outside of Europe	E-mail Address
Latin America	support.la@linksys.com
U.S. and Canada	support@linksys.com

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