



Cisco uBR925 Cable Access Router

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1 Introduction

This guide provides the basic information needed to install the Cisco uBR925 Cable Access Router. The Cisco uBR925 Cable Access Router connects a cable TV (CATV) network to one or more computers using either an Ethernet network card or a Universal Serial Bus (USB) port. The Cisco uBR925 Cable Access Router supports both bidirectional data traffic and near toll quality Voice over IP (VoIP) traffic over a high-bandwidth cable connection.

 **Warning** This warning symbol means *danger*. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Review the safety warnings in the section Translated Safety Warnings, page 29, before proceeding with the installation.

System Requirements

This section identifies the hardware requirements necessary to install and operate the Cisco uBR925 Cable Access Router.

- Cisco uBR925 Cable Access Router and power supply
- If using Ethernet connectivity:
 - Straight-through Ethernet cable (included with some packaging options for the Cisco uBR925 Cable Access Router)
 - Computer with an Ethernet network adapter, and TCP/IP protocols installed and configured so an IP address is assigned automatically by a DHCP server
 - Windows 95, Windows 98, Windows 98 Second Edition, Windows NT, Windows 2000, Windows Millennium

 **Note** The service provider might support other types of PCs and CPE devices for network connectivity. At the minimum, these CPE devices must meet the following requirements: 10Base T Ethernet connectivity, TCP/IP networking software, and the ability to obtain an IP address using the DHCP protocol.

- If using USB connectivity:
 - Cisco USB driver software CD (included with the Cisco uBR925 Cable Access Router)
 - Host-to-device USB cable (type “A” to type “B” connectors, not included)
 - Computer equipped with a USB port
 - Windows 98, Windows 98 Second Edition, Windows 2000, Windows Millennium

- Cable TV (CATV) outlet and coaxial cable
- Coaxial cable splitter (not included; required only if using the same coaxial cable for both the TV and the Cisco uBR925 Cable Access Router)
- (Optional) If connecting analog telephone, modem, or fax devices:
 - Ensure that all telephone, modem, or fax devices are analog devices that use a tone dial set.
 - Single-line or dual-line devices, as appropriate:

You can connect two single-line telephone, modem, or fax devices to each of the voice ports on the Cisco uBR925 Cable Access Router using two-wire or four-wire RJ-11 connectors.

You can connect one dual-line (four-wire) telephone, modem, or fax device to the first voice port on the Cisco uBR925 Cable Access Router using a four-wire RJ-11 connector. When using a dual-line device on the first voice port, you can plug a single-line device into the second voice port as an extension to the second line.

- If using extensions for telephone, modem, and fax devices, you will need the appropriate telephone cables (four-wire cable with RJ-11 connectors, not included) and other equipment required for connecting the devices to the Cisco uBR925 Cable Access Router.
- If connecting multiple telephones, modems, or fax devices to a telephone line, be sure that the sum of the Ringer Equivalence Number (REN) of all devices on any one voice port does not exceed five. The REN value is a measure of the AC load that the device places on a voice line and is typically listed on each device. If too many devices are connected on the same line, the telephones might not ring properly, and you might have difficulty completing telephone calls.



2 Installing the Cisco uBR925 Cable Access Router

This section provides the basic information necessary to install the Cisco uBR925 Cable Access Router. Figure 1 shows the locations for connecting all cables to the connectors on the rear panel of the Cisco uBR925 Cable Access Router. Use this diagram as a guide to connecting the required cables.

Figure 1 Cisco uBR925 Cable Access Router Rear Panel

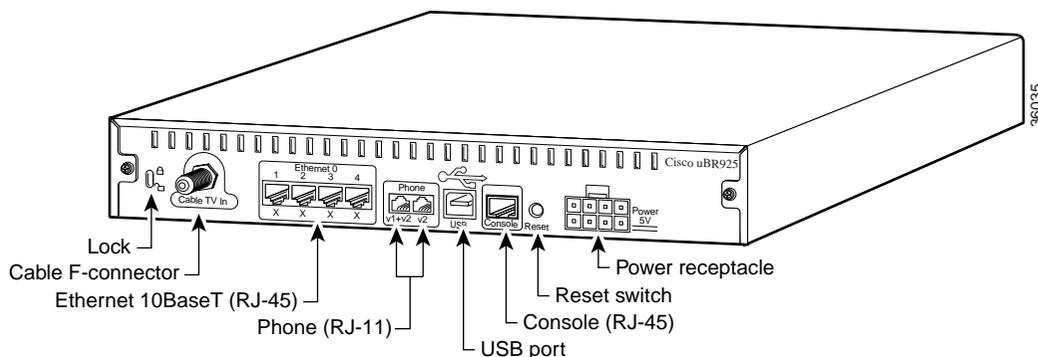
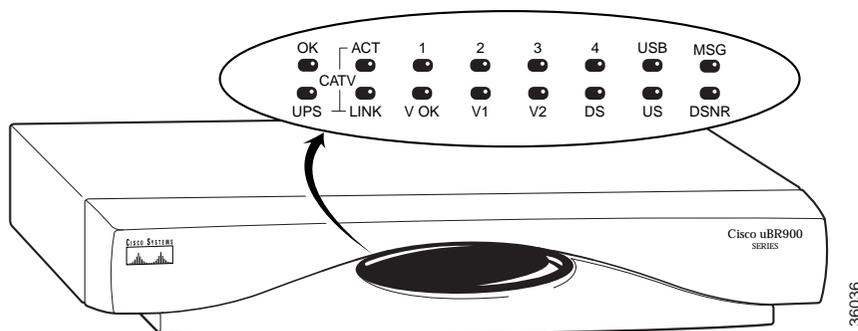


Figure 2 identifies the LEDs on the front panel of the Cisco uBR925 Cable Access Router.

Figure 2 Cisco uBR925 Cable Access Router LEDs



Physical Placement

You can install the Cisco uBR925 Cable Access Router flat on a desktop or other stable, flat surface, using the following guidelines:

- Do not install the Cisco uBR925 Cable Access Router on an uneven or soft surface.
- Place the Cisco uBR925 Cable Access Router close to the cable TV drop connection and all devices to be connected at the subscriber site.
- The top and sides of the cable access router must remain unobstructed to ensure adequate airflow and to prevent the unit from overheating.
- Leave enough space at the rear of the cable access router to allow sufficient space for the connected cables without crimping.

Powering the Computer ON

Step 1 Power ON your computer and wait until it boots to the Windows desktop.

Connecting Power to the Cisco uBR925 Router

This procedure connects the Cisco uBR925 Cable Access Router to its power supply and to the grounded wall outlet supplying power to the unit. The cable access router is meant to be left on at all times, and therefore, has no power switch.



Note Always use the power supply unit that is supplied with the Cisco uBR925 Cable Access Router.

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- Step 1** Connect the eight-pin connector on the power supply cable into the socket labeled “Power” on the rear panel of Cisco uBR925 Cable Access Router. Push the plug into the connector until it locks securely.
- Step 2** Connect the plug end of the power cord into the other end of the power supply.
- Step 3** Plug the prong end of the power cord into a grounded electrical wall outlet. Power is immediately supplied to the cable access router.



Warning Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.



Step 4 Verify that the OK LED on the front panel of the Cisco uBR925 Cable Access Router starts blinking a few moments after power is applied. If this LED does not light or blink, check that the power supply cable is plugged into the cable access router and into a working wall outlet.



Tip After a few moments, the OK LED should stop blinking and come on solid, indicating that the router has loaded the Cisco IOS software and is ready for operations with the cable network.

Connecting the Cisco uBR925 Cable Access Router to the Cable System

This procedure connects the Cisco uBR925 Cable Access Router to the cable network. This is required for all installations.

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- Step 1** If you are using the same outlet for both cable TV and cable network service, install a cable splitter/directional coupler to provide separate signals for the TV and cable network signals. (Contact your service provider for details on how to properly connect a cable splitter or directional coupler.)
 - Step 2** Plug one end of the coaxial cable into the cable TV wall outlet.
 - Step 3** Connect the other end of the coaxial cable to the connector on the rear panel of the Cisco uBR925 Cable Access Router that is labeled Cable TV In.
 - Step 4** Hand-tighten each connector, making sure that each is finger-tight.
 - Step 5** The CATV Link LED should turn on solid after connecting the Cisco uBR925 Cable Access Router to the cable TV wall outlet. If the CATV Link LED does not come on solid within a few minutes, check that the coaxial cable is properly plugged into the correct cable TV outlet and in to the cable access router's Cable TV In connector.
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Connecting to Telephones, Modems, or Fax Devices (optional)

If you have purchased voice services from your service provider, use the following procedure to connect the Cisco uBR925 Cable Access Router to telephone, modem, or fax devices. If you have not purchased voice services, skip to the “Connecting to the Computer (Ethernet, optional)” section on page 8.

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- Step 1** Obtain the telephone number assignments for each voice port from your service provider, and label each telephone, modem, or fax device with its assigned number.
 - Step 2** Connect the RJ-11 end of this cable to the appropriate voice port (labeled “V1+V2” or “V2”) on the rear panel of the Cisco uBR925 Cable Access Router. Press the cable firmly into the receptacle.
 - Step 3** Connect the other end of the cable to the telephone, modem, or fax device that has been given the number assigned for that voice port. Press the cable firmly into the receptacle.
 - Step 4** Repeat Steps 2 and 3 to connect a second telephone, modem, or fax device to the other voice port.



Note The V1+V2 connector supports either a single-line or a two-line analog telephone that uses a four-wire connection. If using a two-line telephone, the second line behaves as if it were a single-line telephone plugged into the V2 voice port; you can then plug a second device in to the V2 port and use it as an extension to the second line telephone.



Caution Do not plug the Cisco uBR925 Cable Access Router into any RJ-11 jack in your home, unless otherwise instructed by your service provider. The cable access router must not be plugged in to the Public Telephone Switched Network (PTSN) or in to any jack that is connected to the PTSN—doing so will damage the cable access router.

Connecting to the Computer (Ethernet, optional)

These steps connect the Ethernet port on the Cisco uBR925 Cable Access Router to a computer using an Ethernet network adapter card. This is required only when you are using the Ethernet port to connect the cable access router to a computer; if you are using the USB port, see the next section.



Note Do not proceed with these steps if your computer does not have a working Ethernet interface. If necessary, install an Ethernet network adapter card according to the manufacturer’s instructions before proceeding.

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- Step 1** Plug one end of the supplied straight-through Ethernet cable to any of the four RJ-45 connectors labeled Ethernet on the rear panel of the Cisco uBR925 Cable Access Router.
 - Step 2** Plug the other end of the Ethernet cable into the RJ-45 connector on your computer’s Ethernet network adapter.
 - Step 3** Verify that the appropriate Ethernet Link LED (numbered 1 to 4) on the front panel of the Cisco uBR925 Cable Access Router is on. If this LED does not come on, check that the Ethernet cable is plugged into the correct RJ-45 connector on your computer and that the



computer is turned on. Also verify that the other end of the cable is plugged into the correct Ethernet connector on the Cisco uBR925 Cable Access Router. Finally, verify that the Ethernet cable is a straight-through cable and not a crossover cable.

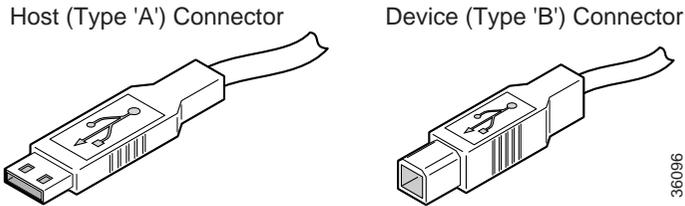
If the steps above do not correct the problem, check that the Ethernet adapter is configured for TCP/IP operation, as described in the “Configuring the Computer for Ethernet Network Access” section on page 17.

Connecting to the Computer (USB, optional)

These steps connect the Cisco uBR925 Cable Access Router to a computer using the USB port. This is required only when you are making a USB connection to a computer; if you are using an Ethernet port, see the previous section.

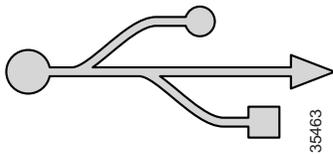
- Step 1** Before making any connection, verify the following requirements for a USB connection:
- The computer is running Windows 98, Windows 98 Second Edition, Windows Millennium, or Windows 2000. Windows 95 and Windows NT do not support USB networking connections.
 - Both the Cisco uBR925 Cable Access Router and the computer must be powered on.
 - If using a USB hub, verify that it is already installed and working before connecting the Cisco uBR925 Cable Access Router. (A USB hub allows multiple devices to be connected to one PC, but it does not allow multiple computers to be connected to the Cisco uBR925 Cable Access Router.)
- Step 2** Plug the broad, flat plug (the type “A” or host-end, shown in the figure on the next page) of the USB cable into the USB port on your computer (or USB hub).
- Step 3** Plug the other, rectangular end of the USB cable (the type “B” or device-end, shown in Figure 3) into the USB port on the rear panel of the Cisco uBR925 Cable Access Router.

Figure 3 *USB Cable Types*



Note The USB port on the Cisco uBR925 Cable Access Router is between the Voice Port and Console Port connectors, and it is labeled with the USB icon shown in Figure 4:

Figure 4 *USB Icon*



- Step 4** Verify that the USB LED on the front panel of the Cisco uBR925 Cable Access Router turns on. If this LED does not come on, check that each connector on the USB cable is fully inserted into the USB port on the computer (or USB hub) and the USB port on the Cisco uBR925 Cable Access Router. If you are using a USB hub, verify that it is properly connected to the computer.
- Step 5** The Windows software detects the installation of a new USB device and automatically begins the software installation process. Proceed to the next section, “Installing the USB Driver for a Windows PC” for instructions on installing the USB software driver.
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3 Installing the USB Driver for a Windows PC

This section describes how to install the Cisco USB driver software on a PC that is running Windows 98, Windows 98 Second Edition, Windows Millennium, or Windows 2000. This step is necessary to establish communications over the USB interface between the PC and the Cisco uBR925 Cable Access Router.

 **Note** The USB driver needs to be installed only when you are using a USB connection with the Cisco uBR925 Cable Access Router. Do not install the USB driver if you are not using a USB connection.

Step 1 When the Cisco uBR925 Cable Access Router is first connected to a PC that is running Windows 98, Windows 98 Second Edition, Windows Millennium, or Windows 2000, a window automatically appears informing you that new hardware has been detected. Figure 5 shows the window that appears for Windows 2000, but the other versions of Windows are similar. Click Next to continue. (See Figure 5.)

Figure 5 *Windows New Hardware Wizard*





Note The Windows software will not automatically detect the presence of the USB interface until the OK LED stops blinking and comes on solid, which indicates that the Cisco uBR925 Cable Access Router has loaded the Cisco IOS software and has begun the registration process with the cable system. If the OK LED does not turn solid, check all cable connections, especially the USB and coaxial cable connections.

Step 2 When the next screen appears, choose the “Search for a suitable driver” option (or “Search for the best driver”) and click Next. (See Figure 6.)

Figure 6 Search for a Suitable Driver Window





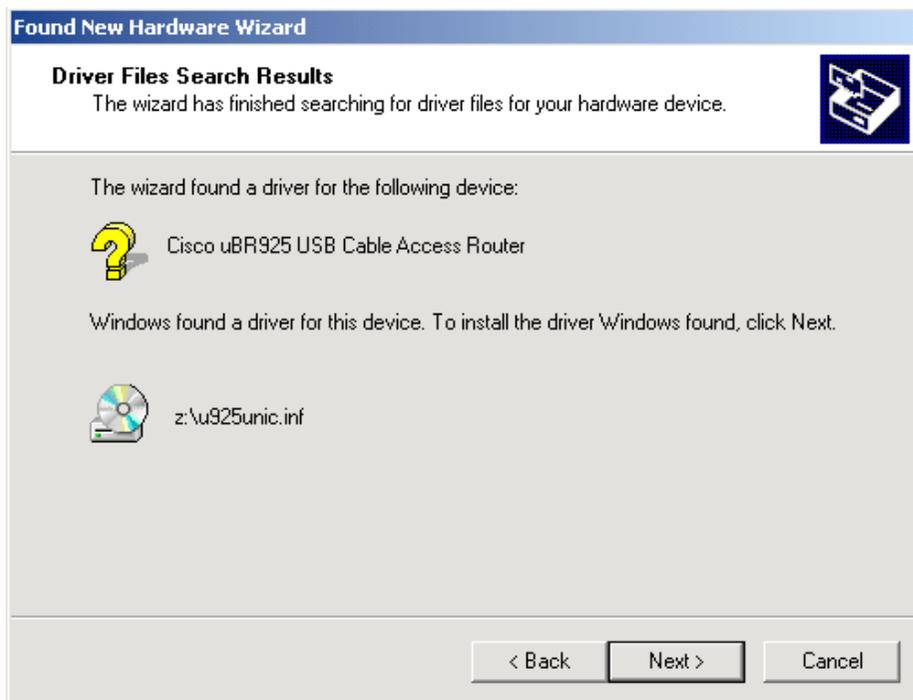
Step 3 When you are prompted for where the Windows software should search for the USB driver, insert the Cisco USB software driver CD into your computer's CD-ROM drive. Then choose the CD-ROM drive option and click Next. (See Figure 7.)

Figure 7 Specifying the CD-ROM Drive



Step 4 The Windows software searches the CD and displays the following driver information. Click Next to continue. (See Figure 8.)

Figure 8 Windows Found New Driver



 **Note** The exact text and driver filename displayed in these windows can vary, depending on the software version of the Cisco uBR925 Cable Access Router.

Step 5 If prompted to enter your Windows installation CD-ROM, remove the Cisco USB driver CD, insert your Windows installation CD, and click OK. (This step might not be required, depending on how you installed the Windows software on your computer.)



Step 6 The Windows software displays the following status window. Click Finish to continue. (See Figure 9.)

Figure 9 *Windows New Hardware Wizard Completed*



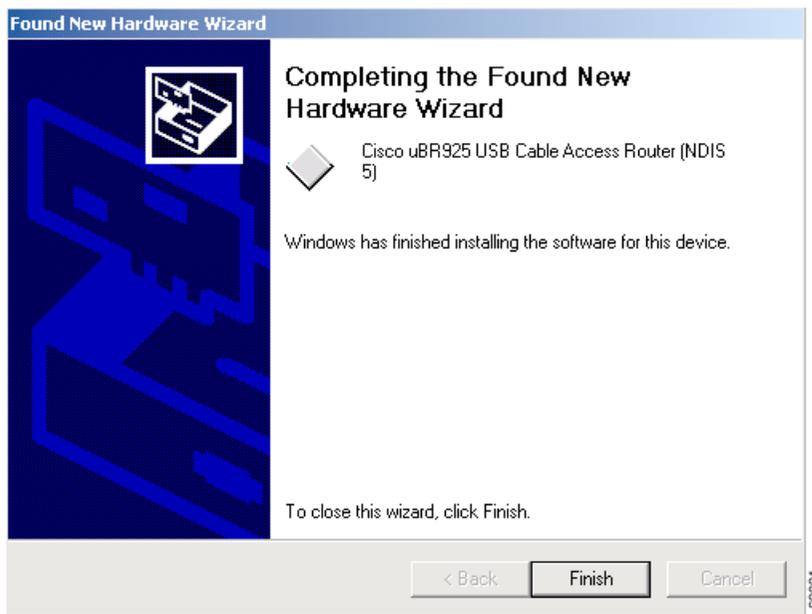
Step 7 Windows then installs the TCP/IP drivers that are necessary for USB networking. Click Next to continue. (See Figure 10.)

Figure 10 *Installing the USB Networking Driver*



- Step 8** The Windows software prompts how and where it should search for the required drivers. Choose the “Search for a suitable driver” option (or “Search for the best driver”) and click Next to continue. Then choose the CD-ROM drive and click Next to continue.
- Step 9** After installing the TCP/IP drivers, Windows displays the following status window. Click Finish to continue. (See Figure 11.)

Figure 11 Windows Networking Driver Installation Complete



- Step 10** The Windows software completes installing the USB driver software and prompts you to restart your PC. Click Yes to restart your PC, which will activate the driver and begin communications with the Cisco uBR925 Cable Access Router.

This concludes the installation procedures for the Cisco uBR925 Cable Access Router when using USB connectivity—no further configuration is needed. If, however, you are also using Ethernet connectivity to connect to the Cisco uBR925 Cable Access Router, proceed to the next section to configure the TCP/IP software for Ethernet networking.



Note Your service provider might have their own configuration instructions that are needed to access their services. If so, please complete those procedures before continuing.

4 Configuring the Computer for Ethernet Network Access

If your PC uses an Ethernet card to connect to the Cisco uBR925 Cable Access Router, the final installation step is to modify the TCP/IP configuration for that computer. This procedure is different for computers running Windows 95/98 and Windows NT/2000.

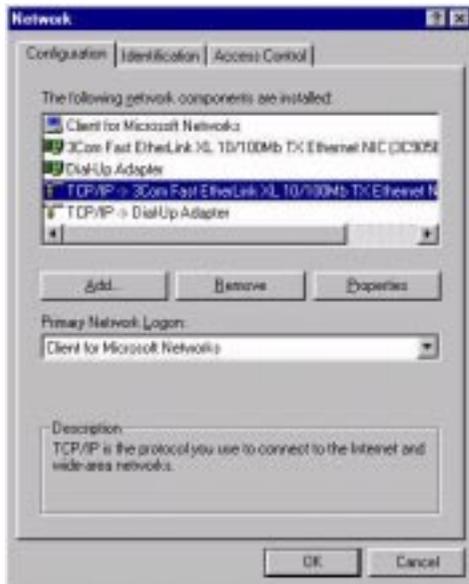


Note This step does not need to be done for computers using a USB connection, because installing the USB software driver also automatically installs and configures the TCP/IP software.

TCP/IP Configuration for Windows 95/98

- Step 1** Choose Start>Settings>Control Panel and double-click the Network icon in the Control Panel.
- Step 2** Click the Configuration tab in the Network window to display the list of network adapters and other network components.
- Step 3** Select the TCP/IP option that is linked with your Ethernet card and click the Properties button (see Figure 12).

Figure 12 TCP/IP Properties Window





- Step 4** Click the IP Address tab, click Obtain an IP address automatically, and click OK. This configures the computer to obtain its IP address from a Dynamic Host Configuration Protocol (DHCP) server during boot.
 - Step 5** If your service provider has given you values for a default gateway, click the Gateway tab and enter those values for the default gateway. Otherwise, leave these fields blank.
 - Step 6** If your service provider has supplied values for Dynamic Name Server (DNS) configuration, click the DNS Configuration tab. Then click the Enable DNS button and enter the DNS server information supplied by your provider.
 - Step 7** Click OK to accept the new settings, and click OK again to dismiss the configuration window.
 - Step 8** Restart the computer to force it to obtain a new IP address from the DHCP server.
-



Note Your service provider might have their own configuration instructions that are needed to access their services. If so, please complete those procedures now.

TCP/IP Configuration for Windows NT

- Step 1** Choose Start>Settings>Control Panel.
- Step 2** Double-click Network and select the Protocols tab.
- Step 3** Click the TCP/IP Protocols entry in the list, then click Properties and select the IP Address tab (see Figure 13).

Figure 13 TCP/IP Properties Window



- Step 4 Click Obtain an IP address automatically.
- Step 5 Click Apply.
- Step 6 Select the DNS tab and enter the DNS server information supplied by your cable service provider.
- Step 7 Click OK.
- Step 8 Restart the computer to force it to obtain a new IP address from the DHCP server.



Note Your service provider might have their own configuration instructions that are needed to access their services. If so, please complete those procedures now.

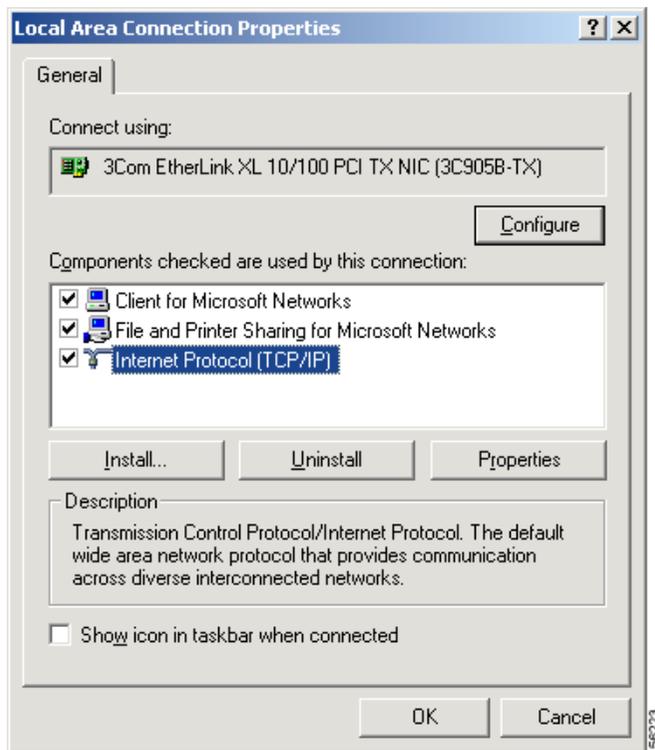
TCP/IP Configuration for Windows 2000

- Step 1 Choose Start>Settings>Network and Dial-up Connections:Local Area Connection.
- Step 2 In the Local Area Connection Status window, click the Properties button.



Step 3 If necessary, select your computer's Ethernet card in the box at the top of the window. Then select the Internet Protocol (TCP/IP) entry in the list (see Figure 14):

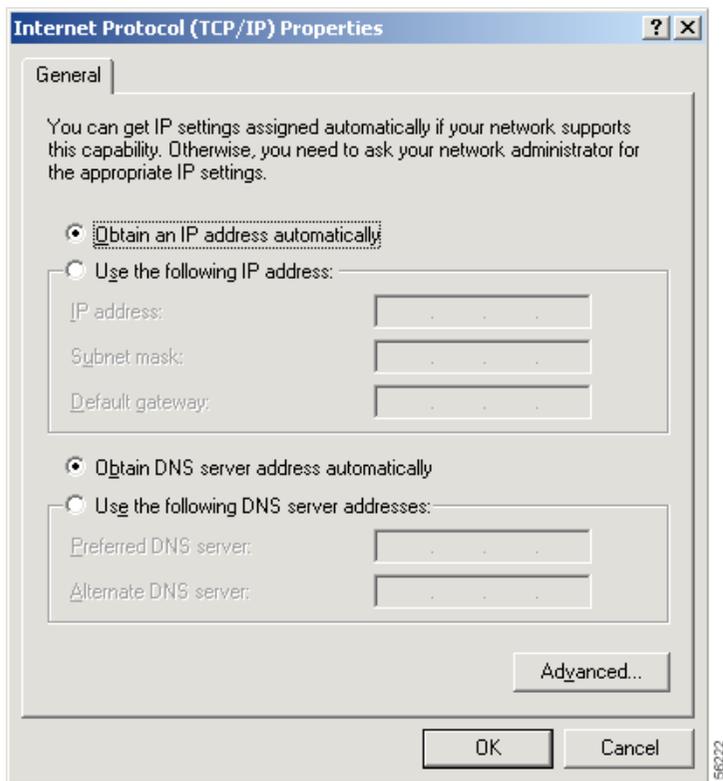
Figure 14 *Internet Protocol (TCP/IP) Properties Window*



Step 4 Click the Properties button.

Step 5 Select Obtain and IP address automatically and Obtain DNS server address automatically (see Figure 15):

Figure 15 Obtain an IP Address Window



Step 6 Click OK twice and click Close once to dismiss all of the networking windows.

Step 7 Restart the computer to force it to obtain a new IP address from the DHCP server.



Note Your service provider might have their own configuration instructions that are needed to access their services. If so, please complete those procedures now.



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Warranty Information

The manufacturer's warranty period for your new Cisco product can be found on the separate card that accompanies this booklet. Specific information about the warranty is provided in several languages at the following URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/cetrans.htm



6 United States Federal Communications Commission Notice

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

The following information is for FCC compliance of Class B devices: The equipment described in this manual generates and may radiate radio-frequency energy. If it is not installed in accordance with Cisco's installation instructions, it may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in part 15 of the FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your equipment is causing interference by turning it off. If the interference stops, it was probably caused by the Cisco equipment or one of its peripheral devices. If the equipment causes interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the equipment to one side or the other of the television or radio.
- Move the equipment farther away from the television or radio.
- Plug the equipment into an outlet that is on a different circuit from the television or radio. (That is, make certain the equipment and the television or radio are on circuits controlled by different circuit breakers or fuses.)

Modifications to this product not authorized by Cisco could void the FCC approval and negate your authority to operate the product.

7 Translated Safety Warnings

Safety Information

Before you install your Cisco product, read the FCC and other regulatory material, including the safety and site preparation section in this *User Guide* and the other documentation for this product. For your safety, Cisco includes translated safety warnings in this document.

Warning Definition



Warning This warning symbol means *danger*. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

Waarschuwing Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen.

Varoitus Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista.

Attention Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents.

Warnung Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewußt.

Avvertenza Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti.

Advarsel Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker.



Aviso Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes.

¡Advertencia! Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes.

Warning! Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador.

Lightning Activity Warning



Warning Do not work on the system or connect or disconnect cables during periods of lightning activity.

Waarschuwing Tijdens onweer dat gevaar gaat met bliksem, dient u niet aan het systeem te werken of kabels aan te sluiten of te ontkoppelen.

Varoitus Älä työskentele järjestelmän parissa äläkä yhdistä tai irrota kaapeleita ukkosilmalla.

Attention Ne pas travailler sur le système ni brancher ou débrancher les câbles pendant un orage.

Warnung Arbeiten Sie nicht am System und schließen Sie keine Kabel an bzw. trennen Sie keine ab, wenn es gewittert.

Avvertenza Non lavorare sul sistema o collegare oppure scollegare i cavi durante un temporale con fulmini.

Advarsel Utfør aldri arbeid på systemet, eller koble kabler til eller fra systemet når det tordner eller lyner.

Aviso Não trabalhe no sistema ou ligue e desligue cabos durante períodos de mau tempo (trovoada).

¡Advertencia! No operar el sistema ni conectar o desconectar cables durante el transcurso de descargas eléctricas en la atmósfera.

Warning! Vid åska skall du aldrig utföra arbete på systemet eller ansluta eller koppla loss kablar.

Ground Conductor Warning



Warning Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.

Waarschuwing De aardingsleiding mag nooit buiten werking gesteld worden en de apparatuur mag nooit bediend worden zonder dat er een op de juiste wijze geïnstalleerde aardingsleiding aanwezig is. Neem contact op met de bevoegde instantie voor elektrische inspecties of met een elektricien als u er niet zeker van bent dat er voor passende aarding gezorgd is.

Varoitus Älä koskaan ohita maajohdinta tai käytä laitteita ilman oikein asennettua maajohdinta. Ota yhteyttä asianmukaiseen sähkötarkastusviranomaiseen tai sähköasentajaan, jos olet epävarma maadoituksen sopivuudesta.

Attention Ne jamais rendre inopérant le conducteur de masse ni utiliser l'équipement sans un conducteur de masse adéquatement installé. En cas de doute sur la mise à la masse appropriée disponible, s'adresser à l'organisme responsable de la sécurité électrique ou à un électricien.

Warnung Auf keinen Fall den Erdungsleiter unwirksam machen oder das Gerät ohne einen sachgerecht installierten Erdungsleiter verwenden. Wenn Sie sich nicht sicher sind, ob eine sachgerechte Erdung vorhanden ist, wenden Sie sich an den zuständigen elektrischen Fachmann oder einen Elektriker.

Avvertenza Non escludere mai il conduttore di protezione né usare l'apparecchiatura in assenza di un conduttore di protezione installato in modo corretto. Se non si sa con certezza che è disponibile un collegamento di messa a terra adeguato, esaminare le Norme CEI pertinenti o rivolgersi a un elettricista qualificato.

Advarsel Omgå aldri jordingslederen og bruk aldri utstyret uten riktig monterte jordingsleder. Ta kontakt med det riktige organet for elektrisk inspeksjon eller en elektriker hvis du er usikker på om det finnes velegnet jording.

Aviso Nunca anule o condutor à terra nem opere o equipamento sem ter um condutor à terra adequadamente instalado. Em caso de dúvida em relação ao sistema de ligação à terra, contacte os serviços locais de inspeção eléctrica ou um electricista qualificado.

Advertencia No inhabilitar nunca el conductor de tierra ni hacer funcionar el equipo si no existe un conductor de tierra instalado correctamente. Póngase en contacto con una autoridad apropiada de inspección eléctrica o con un electricista competente si no está seguro de que hay una conexión a tierra adecuada.

Warning! Koppla aldrig från jordledningen och använd aldrig utrustningen utan en på lämpligt sätt installerad jordledning. Om det föreligger osäkerhet huruvida lämplig jordning finns skall elektrisk besiktningsauktoritet eller elektriker kontaktas.



Ring Signal Generator Warning



Warning This equipment contains a ring signal generator (ringer), which is a source of hazardous voltage. Do not touch the RJ-11 (phone) port wires (conductors), the conductors of a cable connected to the RJ-11 port, or the associated circuit-board when the ringer is active. The ringer is activated by an incoming call.

Waarschuwing Deze apparatuur brengt een belsignaal voort wat op spanningsgevaar duidt. Wanneer de bel rinkelt, mogen de RJ-11-draden (telefoon), d.w.z. de geleiders van een aan de RJ-11-poort verbonden kabel, en de bijbehorende circuitplaat, niet aangeraakt worden. De bel wordt geactiveerd door een binnenkomend analoog gesprek.

Varoitus Tämä laite on varustettu soittovirran generaattorilla (puhelinkello), jossa on vaarallinen jännite. Älä koske RJ-11 (puhelimen liittymän) liitäntäjohtoihin (johtimet), RJ-11-liittymään yhdistetyn kaapelin johtimiin tai piirilevyyn puhelinkellon ollessa päälle kytkettynä. Saapuva analogisoitto aktivoi puhelinkellon.

Attention Cet appareil contient un générateur de sonneries, source de tensions dangereuses. Lorsque la sonnerie est active, ne touchez en aucun cas les fils de port (conducteurs) du connecteur RJ11 (téléphone), les âmes du câble connecté au port RJ11 ou les cartes imprimées correspondantes. La sonnerie est activée par un appel entrant.

Warnung Dieses Gerät enthält einen Rufsignalgeber (Rufumsetzer), der unter gefährlicher Spannung steht. Die RJ-11 (Telefon-) Anschlußdrähte (Leiter), die Leiter eines im RJ-11-Anschluß eingesteckten Kabels bzw. die dazugehörige Leiterplatte auf keinen Fall berühren, wenn der Rufumsetzer aktiviert ist. Der Rufumsetzer wird aktiviert, wenn ein Analoganruf eingeht.

Avvertenza Questa apparecchiatura contiene un generatore di segnali di chiamata (suoneria) che origina un voltaggio pericoloso. Quando la suoneria è attivata, non toccare l' RJ-11 (telefono), i fili della porta (conduttori), i conduttori di un cavo collegato alla porta RJ-11 o l' associata scheda a circuiti stampati. La suoneria è attivata da un segnale di chiamata analogica in arrivo.

Advarsel Dette utstyret inneholder en ringesignalgenerator (ringeklokke) med farlig spenning. Berør ikke RJ-11-utgangens (telefonutgangens) ledninger (lederne), lederne til den kablen som er koplet til RJ-11-utgangen, eller tilhørende kretskort når ringeklokken er aktivert. Ringeklokken aktiveres av innkommende analoge anrop.

Aviso Este equipamento contém um gerador de sinal de campainha que constitui uma fonte de tensão perigosa. Não toque nos fios de porta (condutores) RJ-11 (telefone), nos condutores do cabo conectado à porta RJ-11 ou na placa de circuito associada quando a campainha estiver activa. A campainha é activada pela entrada de uma chamada analógica.

¡Advertencia! Este equipo contiene un generador de señal de llamada (timbre), el cual es una fuente de tensión peligrosa. No toque los alambres de la puerta (conductores) RJ-11 (teléfono), ni los conductores de un cable conectado a la puerta RJ-11, ni la placa del circuito relacionado cuando el timbre está activo. El timbre es activado por medio de una llamada de entrada analógica.

Warning! Denna utrustning innehåller en tongenerator (ringklocka) med farlig spänning. Vidrör inte RJ-11-portens (telefonportens) ledningar (ledarna), ledarna hos kabel som är ansluten till porten RJ-11 eller tillhörande kretskort när ringklockan är aktiverad. Ringklockan aktiveras av inkommande analoga anrop.

Product Disposal Warning



Warning Ultimate disposal of this product should be handled according to all national laws and regulations.

Waarschuwing Dit produkt dient volgens alle landelijke wetten en voorschriften te worden afgedankt.

Varoitus Tämän tuotteen lopullisesta hävittämisestä tulee huolehtia kaikkia valtakunnallisia lakeja ja säännöksiä noudattaen.

Attention La mise au rebut définitive de ce produit doit être effectuée conformément à toutes les lois et réglementations en vigueur.

Warnung Dieses Produkt muß den geltenden Gesetzen und Vorschriften entsprechend entsorgt werden.

Avvertenza L'eliminazione finale di questo prodotto deve essere eseguita osservando le normative italiane vigenti in materia.

Advarsel Endelig disponering av dette produktet må skje i henhold til nasjonale lover og forskrifter.

Aviso A descartagem final deste produto deverá ser efectuada de acordo com os regulamentos e a legislação nacional.

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Warning! Slutlig kassering av denna produkt bör skötas i enlighet med landets alla lagar och föreskrifter.



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems Europe
11 Rue Camille Desmoulins
92782 Issy-les-Moulineaux
Cedex 9
France
www-europe.cisco.com
Tel: 33 1 58 04 60 00
Fax: 33 1 58 04 61 00

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems Australia, Pty., Ltd
Level 9, 80 Pacific Highway
P.O. Box 469
North Sydney
NSW 2060 Australia
www.cisco.com
Tel: +61 2 8448 7100
Fax: +61 2 9957 4350

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