PCMCIA Wireless LAN PC Card

User's Manual



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Chapter 1 Introduction

This User's Manual contains information on how to install and configure your Wireless LAN Card. Your Wireless LAN Card will allow you to connect your computer to other Wireless LAN Card equipped computers.

Local Area Network (LAN)

Simply put, a LAN is a network that exists in a relatively limited area. A network is two or more computers connected together sharing files and peripheral devices such as printers.

The Wireless LAN Card allows you to interact with other computers without having to run cables normally associated with networks. This lets you move your computer around while staying connected to your network.

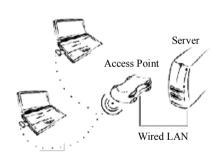
There are two ways to use the Wireless LAN Card. One way is to connect directly to one or more Wireless LAN Card equipped computers, forming an Ad Hoc wireless network. The second way is to connect to an Access Point that gives you access to an existing wired LAN, forming an Infrastructure wireless network.

Ad Hoc Network

The Ad Hoc network offers peer to peer connections between workstations, allowing communication between computers within range that have an 802.11 DSSS compatible PC card installed. A wireless Ad Hoc network can also access a wired LAN's TCP/IP service (such as e-mail and the Internet) by using a TCP/IP software router on an Ethernet equipped PowerBook or notebook.

Infrastructure Network

The infrastructure network uses an access point (or several access points) as a gateway, linking the wireless network to a wired LAN. As a result, portable workstations on your wireless network have access to all of the features of your wired LAN including e-mail, Internet access, network printers and files server.



Chapter 2

Installing the Wireless LAN Card

System Requirements

To use the Wireless LAN Card, your computer must meet the following minimum requirements:

- Windows 98(SE)/Me /2000
- 16 MB of RAM, additional memory recommended
- Available (TypeII) PC card slot

Installing the Hardware

After installing the hardware, install the device driver and then install the Wireless LAN Card software.

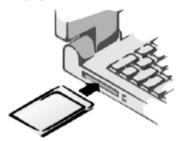
The Wireless LAN Card can be inserted into your computer's PCMCIA slot when the computer power is either turned on or off.



Caution: Do not force the Wireless LAN Card into the slot or severe damage to the computer may occur.

The red LED on the Wireless LAN Card will light when the Wireless LAN Card is inserted into the PCMCIA slot and the computer is turned on.

Insert the end of the Wireless LAN Card into the PCMCIA slot of your computer with the printed label facing up, and slide it in until it is firmly seated.



Wireless LAN Card Status LEDs

The two LEDs on the Wireless LAN Card indicate connection status and data transfer operation status, as described below:

LED	Color	State	Description
Power	Red	On	Connected to an Ad Hoc or Infrastructure network.
		Blinking	Searching for an Access Point or another wireless LAN computer.
Activity	Green	Blinking	Transmission mode. The faster the LED blinks. The higher the data exchange rate.

Installing the Device Driver

Windows will automatically start the device driver installation when the Wireless LAN Card is installed or when Windows starts.

For Windows 98(SE)

Have your Windows 98(SE) /Me installation CD-ROM or disks available; Windows may prompt you for them.

- When the wizard appears, click Next. Then select Search for the best driver... and click Next.
- Insert the Installation CD into your CD-ROM drive. Check Specify a location and click Browse to specify the path to D:\Driver\Win9x where D is the drive letter and click Next.
- When the driver is found, click Next to continue.
 NOTE: If prompted, insert your Windows 98(SE) installation CD and then click OK.
- 4. Click **Finish** to complete the driver installation.
- 5. When prompted to restart your computer, click **No** and continue to the next task.

If you need to set up the TCP/IP address or the Subnet Mask, refer to "Appendix C - Setting Up TCP/IP" on page 35.

For Windows Me

- 1. When the wizard appears, select **Specify the location** ... and click **Next**.
- 2. Insert the Installation CD into your CD-ROM drive. Select the check boxes for both **Search for the best driver ...** and **Specify a location**. Click **Browse** to specify the path to **D:\Driver\WinME** where D is the drive letter and click **Next**.
- 3. When the driver is found, click **Next** to continue.
- 4. Click **Finish** to complete the driver installation.

For Windows 2000

- 1. When the wizard appears, click **Next**.
- 2. Select Search for a suitable driver... and click Next.
- 3. Check Specify a location and click Next.
- 4. Insert the Installation CD into your CD-ROM drive. Click **Browse** to specify the path to **D: \Driver\W2K** where D is the drive letter and click **OK**.
- 5. When the driver is found, click **Next** to continue.
- 6. When the **Digital Signature Not Found** message appears, click **Yes**.
- 7. Click **Finish** to complete the driver installation.

Installing the Wireless LAN Card Software

- 1. Close all Windows programs that are running.
- 2. Run **Setup.exe** from the **D**:\Utility folder of the Wireless LAN Card Installation CD-ROM where D is the drive letter, and then click **Next**.



3. Click **Yes** to accept the Software Licensing Agreement.





- 5. Write down the Service Set ID name exactly as you have entered it (for use in a later installation step), and then click **OK**.
- 6. Click the network mode (AdHoc or Infrastructure) in which your wireless client will operate, and then click Next.

AdHoc.

If you will be communicating through an Access Point that is connected to a wired LAN

If you will be communicating in a wireless network only, choose

installation, choose **Infrastructure**.



7. To install the software to the default destination folder, click **Next**. To install to a different folder, click **Browse**, select another folder, and then click **Next**.



8. Click **Next** to continue.



9. After Windows copies the Setup files from the Wireless LAN Card CD-ROM, click **Yes**, **I want to restart my computer now**, and then click **Finish**.



Chapter 3

Configuring the Wireless LAN Card

You can connect your computer to a network in one of two ways:

Ad Hoc Connecting to other Wireless LAN Card equipped computers, forming a

wireless network.

Infrastructure Connecting to a wired network through an Access Point.

When the Wireless LAN Card is installed and your computer is turned on, one of the following **Wireless LAN Link Status** icons will be displayed in the taskbar at the bottom right corner of your Windows screen:

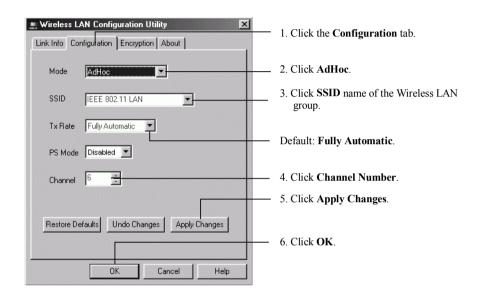
Not Linked Computer is not connected to any other computers. (Red)

Linked Computer joined to a network or formed a network. (Green)

Connecting to Other Computers with WLAN (Ad Hoc)

To connect your computer to an Ad Hoc network, complete the following steps:

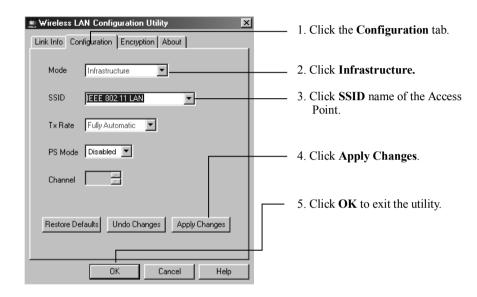
- 1. In the taskbar, click the **Wireless LAN Link Status** icon to display the **Wireless LAN Configuration Utility** dialog box.
- 2. Click the **Configuration** tab.
- 3. In the **Mode** list, click **AdHoc**.
- 4. In the **SSID** list, click the Service Set ID (SSID) name of the Wireless LAN group. All wireless clients must use the same SSID in order to communicate with each other.
- 5. In the **Channel** list, click up or down to get the correct Channel Number which is the same as used by other computer to be connected to.
- 6. Click **Apply Changes**. You should now be able to find your computer on the Network Neighborhood in Windows Explorer.
- 7. Click **OK** to exit the utility.



Connecting to Access Points (Infrastructure)

To connect your computer to an Infrastructure network, complete the following steps:

- 1. In the taskbar, click the **Wireless LAN Link Status** icon to display the **Wireless LAN Configuration Utility** dialog box.
- 2. Click the **Configuration** tab.
- 3. In the **Mode** list, click **Infrastructure**.
- 4. In the **SSID** list, click SSID name of the Access Point. All wireless clients must use the same SSID in order to communicate with each other.
- 5. Click **Apply Changes**. You should now be able to find your computer on the Network Neighborhood in Windows Explorer.
- 6. Click **OK** to exit the utility.



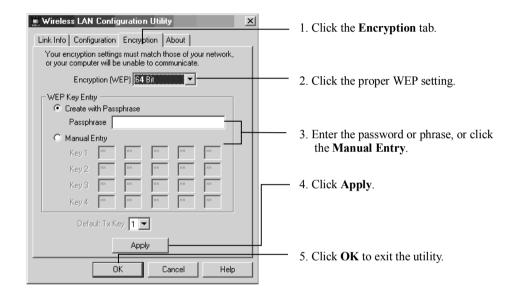
Setting Security

The **Passphrase** of each computer must be the same before a connection can be made between the computers.

Your encryption settings must match those of your network, or your computer will be unable to communicate.

To establish a secure wireless network, complete the following steps:

- 1. In the taskbar, click the **Wireless LAN Link Status** icon to display the **Wireless LAN Configuration Utility** dialog box.
- 2. Click the **Encryption** tab.
- 3. In the **WEP** (Wired Equivalent Privacy) list, click the proper WEP setting.
- 4. In the **Passphrase** box, enter the password or phrase, or click the **Manual Entry**.
- 5. Click **Apply**, and then click **OK**.

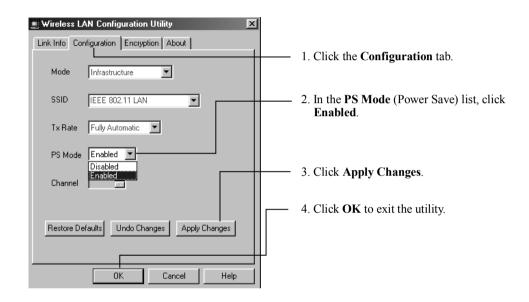


Setting Power Save Mode

You may need to minimize all other Windows programs that are currently running.

Power Save Mode is recommended for devices where power consumption is a major concern, such as battery-powered devices. While in Power Save Mode the Access Point stores incoming messages in a memory buffer. The Wireless LAN Card wakes up periodically from Power Save Mode and checks for any messages that might be waiting at the Access Point. After the messages are transmitted to the Wireless LAN Card from the Access Point, the Wireless LAN Card goes back into Power Save Mode.

- 1. In the taskbar, click the Wireless LAN Link Status icon to display the Wireless LAN Configuration Utility dialog box.
- 2. Click the **Configuration** tab.
- 3. In the PS Mode (Power Save Mode) list, click Enabled, and then click Apply Changes.
- 4. Click **OK** to exit the utility.

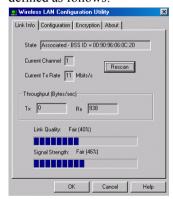


Checking Link Quality (Infrastructure Mode Only)

To check the quality of your computer's wireless link to an Access Point, complete the following steps:

- . Click the **Link Info** tab.

 The State box shows the MAC address for the Access Point.
- 2. Link Quality and Signal Strength are displayed as percentages using active progress indicators that change as the network radio signal fluctuates. Link Quality categories are defined as follows:



Range (%)
0-29
30-59
60-89
90-100

3. Click **OK** to exit the utility.

Chapter 4 Uninstalling the Wireless LAN Card

Removing the Wireless LAN Card

You should use the PC Card icon on the taskbar to stop PC Card before removing them. Removing card without warning the system can cause unexpected problems.

The Wireless LAN Card complies with the PCMCIA standard that allows devices to be inserted into and removed from the computer's Adjust PC Card Properties PCMCIA socket when the computer is on. It is Disable PC Card Tray Icon recommended that you follow the standard Windows procedure for disconnecting a PCMCIA device from your computer.

- 1. In the taskbar, click the PCMCIA icon, and then click **Adjust PC Card Properties**.
- Select the Wireless LAN Card which you want to remove, click Stop and then click **OK**.
- When the message appears that tells you it is safe to remove device, click **OK** and remove the Wireless LAN Card from the computer.



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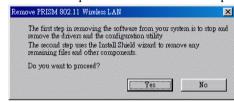
Uninstalling the Wireless LAN Card Software

If you need to uninstall the Wireless LAN Card and application software for any reason, complete the following steps:

- 1. Close all programs that are currently running.
- 2. Remove the Wireless LAN Card from the computer.
- 3. Click the Windows **Start** button, point to **Programs**, **PRISM 802.11** and then click **Uninstaller**.



4. Click **Yes** to proceed with the software procedure.



5. When the uninstallation is completed, click **OK**.



Chapter 5 Updating the Device Driver

To update the device driver, you have to remove the old driver first and then install a new one.

For the latest driver, please visit our web site for more information. When you have finished the download procedure, please follow as below to update the device driver.

- 1. Uninstall the Wireless LAN Card as described in Chapter 4. Follow the steps to remove the Wireless LAN Card and then uninstall the software.
- 2. Install the new driver you have downloaded. Refer to Chapter 2 for detailed instructions. Once you finish installing the new driver, the updating is complete.

Chapter 6 Troubleshooting

Radio Interference

You may be able to eliminate any interference by trying the following:

- Reseat the Wireless LAN Card.
- Increase the distance between the wireless computers and the device causing the radio interference.
- Plug the computer equipped with the Wireless LAN Card into an outlet on a different branch circuit from that used by the affecting device.
- Consult the dealer or an experienced radio technician for help.
- Keep the computer with the Wireless LAN Card away from the microwave oven and large metal objects.

Card Not Detected

If the Wireless LAN Card is not detected by Windows, try the following:

- Make sure the Wireless LAN Card is properly inserted in the PCMCIA slot.
- Make sure the PCMCIA slot in your computer is working.
- Contact your dealer for additional testing if there is a hardware problem with the Wireless LAN Card.

Cannot Connect to Another Wireless LAN Card

If you cannot make a connection to another Wireless LAN Card from your computer, it could be due to one of the following reasons:

- Incorrect SSID. Make sure the SSID is the same for all computers that have a Wireless LAN Card.
- Changes are not being recognized by your computer. Restart your computer.
- If in Ad Hoc mode, make sure the **Log on to Windows NT domain** check box is not selected in the **Client for Microsoft Networks Properties** dialog box in the **Network Configuration** tab.
- Incorrect IP Address or Subnet Mask. Check these settings in the TCP/IP Properties dialog box in the Network Configuration tab.
- Make sure the channel for the Wireless LAN Card is set to the same channel number as the one for the other Wireless LAN card you are trying to connected to.

Poor Link Quality

If the Link Quality display stays in the Poor range, it could be due to one of the following reasons:

- Radio interference.
- Distance between Wireless LAN Card and Access Point is too far. Decrease the distance between the Wireless LAN Card and Access Point (or another card).

Cannot Connect to Access Point

If you cannot make a connection to the Access Point, it could be due to one of the following reasons:

- Make sure the Wireless LAN Card and Access Point have no physical connection problems.
- Make sure the SSID for the Wireless LAN Card is set to "null" or is the same as the Access Point.
- Make sure the privacy type is the same as that of Access Point. If both are using a Passphrase, make sure it is the same for both computers. Also, make sure the Default Key is the same for both computers.

Appendix A Limited Warranty

Wireless LAN Hardware

The seller warrants to the end user ("Customer") that this hardware product will be free from defects in workmanship and materials, under normal use and service, for 1 year from the date of purchase from the seller or its authorized reseller. The seller's sole obligation under this express warranty shall be, at the seller's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, The seller may, in its sole discretion, refund to the Customer the purchase price paid for the defective product. All products that are replaced will become the property of the seller. Replacement products may be new or reconditioned.

Wireless LAN Software

The seller warrants to Customer that each software program licensed from it, except as noted below, will perform in substantial conformance to its program specifications, for a period of 1 year from the date of purchase from the seller or its authorized reseller. The seller warrants the media containing software against failure during the warranty period. No updates are provided. The seller's sole obligation under this express warranty shall be, at the seller's option and expense, to refund the purchase price paid by Customer for any defective software product, or to replace any defective media with software which substantially conforms to applicable seller published specifications. Customer assumes responsibility for the selection of the appropriate application programs and associated reference materials. The seller makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or software applications products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third party products listed in the seller software product documentation or specifications as being compatible, the seller will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a defect in the third party's product or from use of the software product not in accordance with the seller's published specifications or user manual.

Appendix B Regulatory Compliance

FCC Part 15 Declaration of Conformity (DoC)

The following equipment:

Product Name: Wireless PC LAN Card

is herewith confirmed to comply with the requirements of FCC Part 15 rules. The operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Rules and Regulations - Part 15

Warning:

- This equipment must be install and operated in accordance with provided instructions and minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment .

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. 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.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by

turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

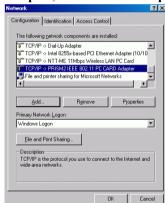
- Relocate your WLAN equipped laptop computer.
- Increase the separation between the WLAN equipped laptop computer and other electronics.
- Connect the WLAN equipped laptop computer into an outlet on a circuit different from that of other electronics.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Appendix C Setting Up TCP/IP

- On the taskbar, click the Start -> Settings -> Control Panel, double click the Network icon.
- 2. Click the **Configuration** tab of the **Network** dialog box.
- 3. In the **network components** list, click TCP/IP ->PRISM2 IEEE 802.11 PC CARD Adapter, and then click Properties.



For correct IP address information for your wireless LAN installation, contact your network administrator.

For more information on IP addresses, see the Network Working Group Specification RFC 1918 on the Internet.

The subnet mask is a value that defines whether your computer communicates only within your LAN (for example, 255.255.255.0) or communicates outside of your LAN.

4. On the **IP Address** tab, click **Specify an IP address**. In the **IP Address** box, enter a valid four-component IP address, either a public or private one as required. If private IP address is used, the following three blocks of IP addresses are available for private networks:

10. 0 . 0. 0 — 10.255.255.255 172. 16. 0. 0 — 172. 31.255.255 192.168. 0. 0 — 192.168.255.255



- 5. In the **Subnet Mask** box, enter a valid four-component IP address.
- 6. Click **OK**, and then click **Yes** to restart your computer.

Glossary

10BaseT An IEEE standard (802.3) for operating 10 Mbps Ethernet networks (LANs) with twisted pair cabling and a wiring hub.
 Access Point An internetworking device that seamlessly connects wired and wireless networks. Access Points

An internetworking device that seamlessly connects wired and wireless networks. Access Points combined with a distributed system support the creation of multiple radio cells that enable roaming throughout a facility.

Ad Hoc A network composed solely of stations within mutual communication range of each other (no Access Point connected).

BSS Basic Service Set. A set of stations controlled by a single coordination function.

Channel A medium used to pass protocol data units that can be used simultaneously in the same volume of space by other channels of the same physical layer, with an acceptably low frame error ratio due to mutual interference.

Encapsulated An Ethernet address mode that treats the entire Ethernet packet as a whole and places it inside an 802.11 frame along with a new header.

ESS Extended Service Set. A set of one or more interconnected Basic Service Sets (BSSs) and integrated Local Area Networks (LANs) can be configured as an Extended Service Set.

Ethernet The most widely used medium access method, which is defined by the IEEE 802.3 standard. Ethernet is normally a shared media LAN; i.e., all the devices on the network segment share total bandwidth. Ethernet networks operate at 10Mbps using CSMA/CD to run over 10BaseT cables.

Gateway

A network component that acts as an entrance to another network.

IEEE 802.11

The IEEE 802.xx is a set of specifications for LANs from the Institute of Electrical and Electronic Engineers (IEEE). Most wired networks conform to 802.3, the specification for CSMA/CD-based Ethernet networks or 802.5, the specification for token ring networks. 802.11 defines the standard for wireless LANs encompassing three incompatible (non-interoperable) technologies; Frequency Hopping Spread Spectrum (FHSS), Direct Sequence Spread Spectrum (DSSS), and Infrared. IEEE standards ensure interoperability between systems of the same type.

Infrastructure

A wireless network centered about an Access Point. In this environment, the Access Point not only provides communication with the wired network but also mediates wireless network traffic in the immediate neighborhood.

Internet Protocol. The standard protocol within TCP/IP that defines the basic unit of information passed across an Internet connection by breaking down data messages into packets, routing and transporting the packets over network connections, then reassembling the packets at their destination. IP corresponds to the network layer in the ISO/OSI model.

IP Address

An IP address is a 32-bit number that identifies each sender or receiver of information sent across the Internet. An IP address has two parts: the identifier of a particular network on the Internet and an identifier of the particular device (which can be a server or a workstation) within that network

- **ISP** *Internet Service Provide*r. An organization that provides access to the Internet. Small ISPs provide service via modem and ISDN while the larger ones also offer private line hookups (T1, fractional T1, etc.).
- **LAN** *Local Area Network.* A communications network that serves users within a defined geographical area. The benefits include the sharing of Internet access, files, and equipment, such as printers and storage devices. Special network cabling (10BaseT) is often used to connect the PCs together.
- **NAT** Network Address Translation. The translation of an Internet Protocol address (IP address) used within one network to a different IP address known within another network. One network is designated the internal network and the other is the external. The internal network then appears as one entity to the outside world.
- PCMCIA Personal Computer Memory Card International Association. This Association develops standards for PC cards, formerly known as PCMCIA cards. These cards are available in three types, and are about the same length and width as credit cards. However, the different cards range in thickness from 3.3 mm (Type I) to 5.0 mm (Type II) to 10.5 mm (Type III). These cards can be used for various functions, including memory storage, landline modems, and wireless modems.
- **PS Mode** *Power Save* Mode. This mode is recommended for devices where power consumption is a major concern, such as battery-powered devices.

Frequency

Radio RF, Terms: GHz, MHz, Hz—The international unit for measuring frequency is Hertz (Hz), equivalent to the older unit of cycles per second. One megahertz (MHz) is one Million-Hertz. One giga hertz (GHz) is one Billion-Hertz. The standard U.S. electrical power frequency is 60 Hz, the AM broadcast radio frequency band is 0.55-1.6 MHz, the FM broadcast radio frequency band is 88–108 MHz, and wireless 802.11 LANs operate at 2.4GHz.

SSID Service Set ID. A group name shared by every member of a wireless network. Only client PCs with the same SSID are allowed to establish a connection.

Subnet Mask

A value that defines whether your computer communicates only within your LAN or communicates outside of your LAN, where it is routed out to the rest of the Internet. A Subnet Mask that has the same first three components (for example, 255.255.255.0) is the routing pattern for a Class C address.

TCP Transmission Control Protocol. The standard transport level protocol that provides the full duplex, stream service on which many applications' protocols depend. TCP allows a process on one machine to send a stream of data to a process on another. Software implementing TCP usually resides in the operating system and uses the IP to transmit information across the network.

Wired Equivalent Privacy. The optional cryptographic confidentiality algorithm specified by WEP 802.11. The algorithm is being used to provide data confidentiality that is subjectively equivalent to the confidentiality of a wired LAN medium that does not employ cryptographic techniques to enhance privacy..

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