

# EnterNet

## EnterNet 300 User Guide

Version 1.5

February 19, 2001

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## **Introducing EnterNet 300**

EnterNet 300 for Windows Broadband Subscriber Client enables you to connect to high-speed broadband networks like Digital Subscriber Line (DSL), cable modem, and fixed wireless, using Point to Point Protocol over Ethernet (PPPoE). The PPPoE protocol allows service providers to use time-tested PPP-based client authentication and configuration systems through any NDIS 3.0 compliant communications device, such as Ethernet adapters and PCI- and USB-based DSL modems.

EnterNet supports most third party Virtual Private Network (VPN) client software, and is available for Windows, Mac, and Linux operating systems.

## System Requirements

EnterNet 300 for Windows minimum system requirements include:

- Microsoft Windows 9x, Windows Me, Windows NT 4.0 (Service Pack 4 or higher), Windows 2000
- Pentium™ class processor or equivalent
- Sufficient RAM to support minimum requirements of the host Windows version
- 6 MB RAM
- 10 MB available disk drive space
- An NDIS 3 compliant communications device. (EnterNet is optimized for use with Efficient Networks SpeedStream0. DSL modems.)

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**NOTE:** THOUGH NOT REQUIRED, MICROSOFT DIAL-UP NETWORKING VERSION 1.2 C , OR LATER, IS NECESSARY TO SUPPORT ENTERNET'S OPTIONAL DIAL-ON-DEMAND FEATURE.

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## Installing EnterNet

EnterNet 300 is distributed on CD-ROM and via Internet download, either as a stand-alone application or as part of an integrated suite of network access applications. If you received EnterNet 300 with a suite of network access applications, please follow the installation instructions provided by the suite's master installer.

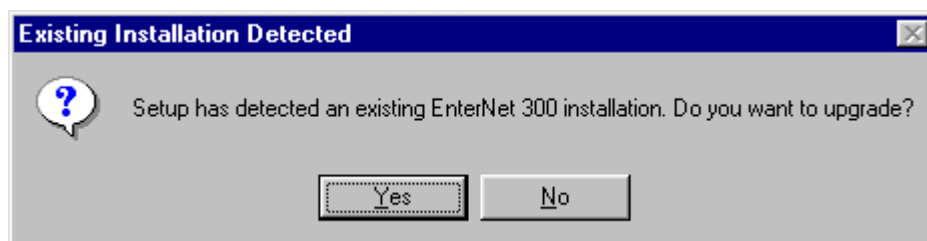
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**NOTE:** SOME OF THE PANELS DEPICTED IN THIS USER'S GUIDE MAY NOT BE PRESENT IN YOUR VERSION OF ENTERNET, DEPENDING ON HOW YOUR ISP HAS PRE-CONFIGURED THE APPLICATION.

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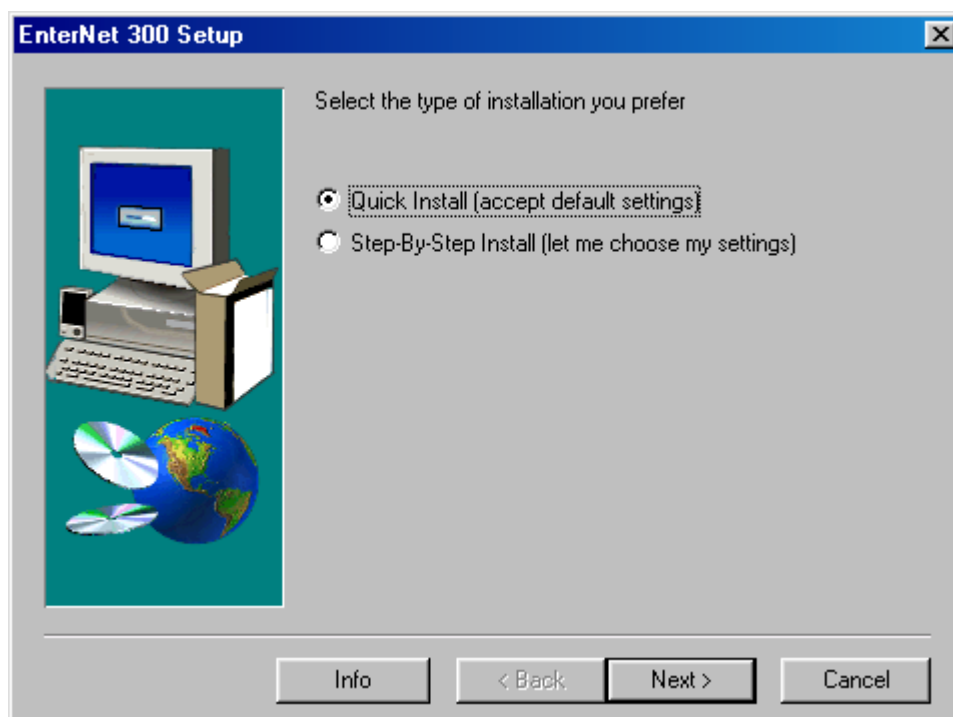
1. To install EnterNet 300 from a CD, locate and run the file named `setup.exe` in the root directory of the CD-ROM.
2. To install EnterNet 300 from a Downloaded File, run the downloaded file – typically named `enternet300.exe`.

If EnterNet 300 is already installed on your computer, the **Existing Installation Detected** panel will open. Click **Yes** to upgrade EnterNet 300, or **No** to exit the EnterNet installer.



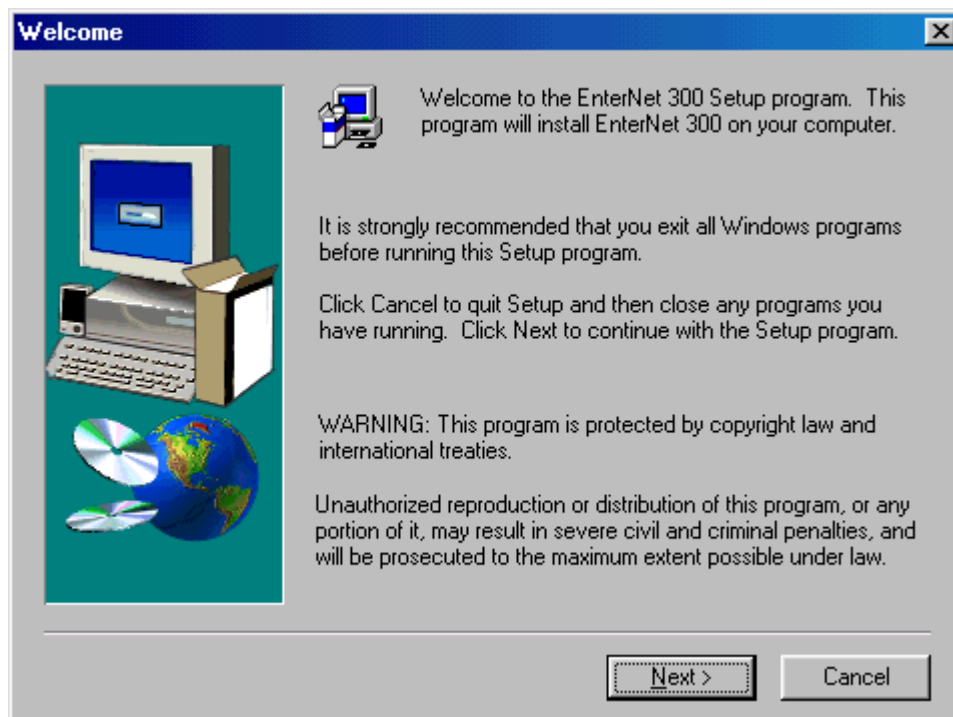
The **EnterNet 300 Setup** panel opens.

1. Click **Quick Install** to install EnterNet 300 using preestablished installation settings.
2. Click **Step-by-Step** to install EnterNet 300 using installation settings you choose yourself.



The **Welcome** panel opens.

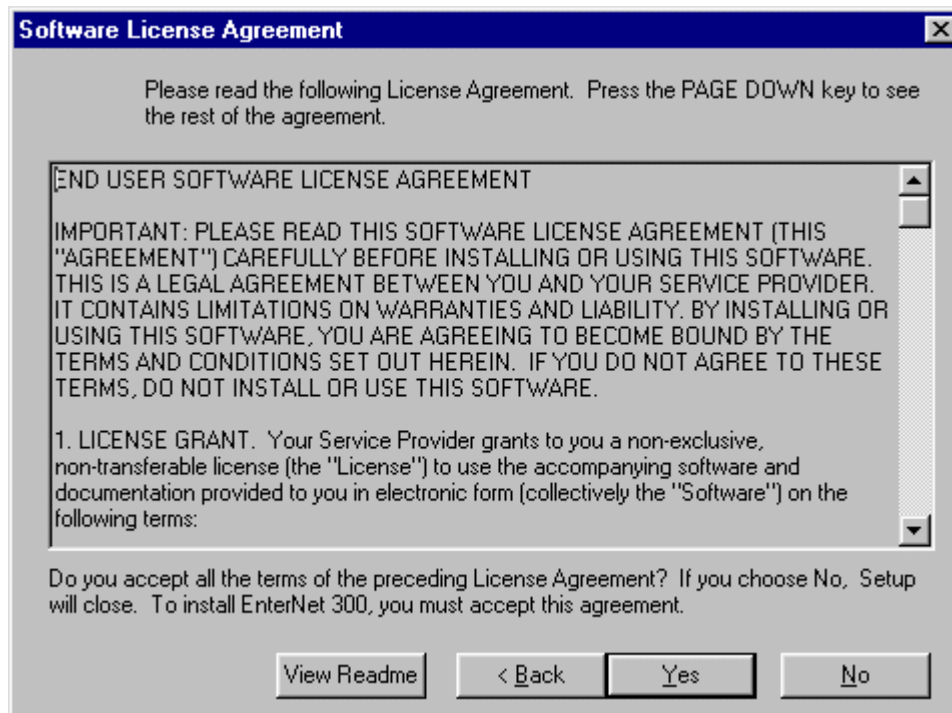
The **Welcome** panel will advise you to exit all other programs before you proceed any further with the installation process. Click **Next** to proceed with the installation process, or **Cancel** to exit the EnterNet installer.





The **Software License Agreement** panel opens.

1. Click the **View ReadMe** button to run your default text editor (usually Microsoft Notepad) and open the EnterNet ReadMe file.
2. Click the **Yes** button to indicate that you have read, understand, and agree to comply with the terms and conditions of the Software License Agreement.
3. Click the **Back** button to review previous EnterNet installer.
4. Click the **No** button to exit the EnterNet installer.



The **Choose Destination Location** panel opens.

1. Click the **Next** button to accept the default installation location (recommended).
2. Click the **Browse** button to open the **Choose Folder** panel, where you can specify a different installation location.



If you click the **Browse** button on the **Choose Destination Location** panel, the **Choose Folder** panel opens.

1. Type the path to the desired installation location in the **Path** text field, or navigate to the desired folder in the **Directories** tree.
2. Once the desired installation location is reflected in the **Path** text field, click the **OK** button to close the **Choose Folder** panel.

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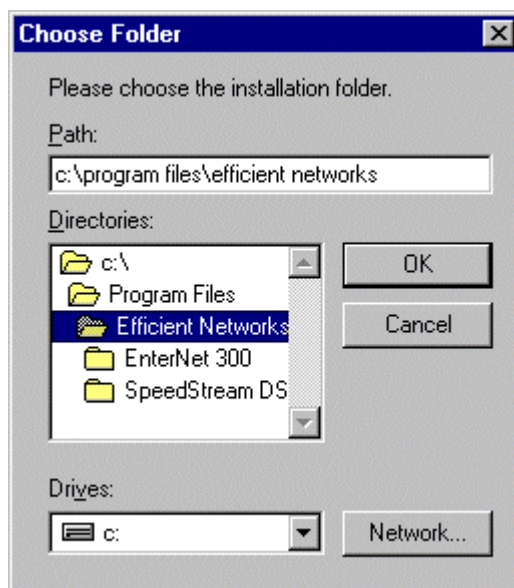
**WARNING:** IF THE FOLDER WHERE YOU WANT TO INSTALL ENTERNET DOES NOT YET EXIST, YOU WILL NEED TO CREATE IT HERE. TYPE THE NAME OF THE NEW FOLDER IN THE **CHOOSE FOLDER** PANEL, AND THE INSTALLER WILL ASK IF YOU WANT TO CREATE THE FOLDER. BEFORE THE NEWLY CREATED FOLDER WILL APPEAR IN THE **CHOOSE FOLDER** PANEL, YOU MUST CLOSE THE **CHOOSE FOLDER** PANEL AND CLICK THE **BROWSE** BUTTON ON THE **CHOOSE DESTINATION LOCATION** PANEL AGAIN.

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**NOTE:** INSTALLING ENTERNET ON A NETWORK DRIVE, AS WOULD OCCUR IF THE INSTALLATION LOCATION WERE SELECTED FROM THE **NETWORK** BUTTON ON THE **CHOOSE FOLDER** PANEL, IS NOT SUPPORTED.

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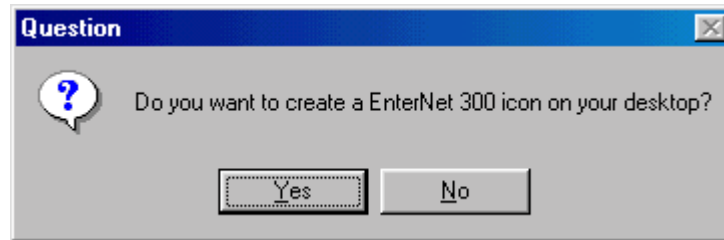
The **Question** panel opens.

1. Click **Yes** to create a shortcut on your desktop.

---

**NOTE:** YOUR SERVICE PROVIDER MAY HAVE ELECTED NOT TO PRESENT THIS OPTION.

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If your ISP has pre-configured EnterNet to provide you the option to install EnterNet's optional Dial-on-Demand feature, the **EnterNet 300 Setup** panel will open.

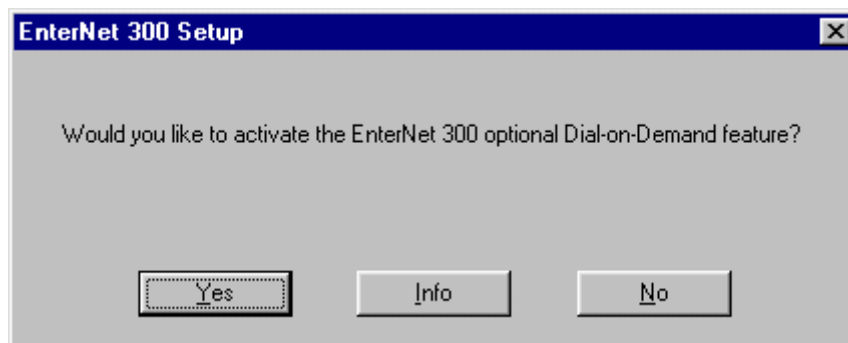
1. Click the **Yes** button to install EnterNet's optional Dial-on-Demand feature.

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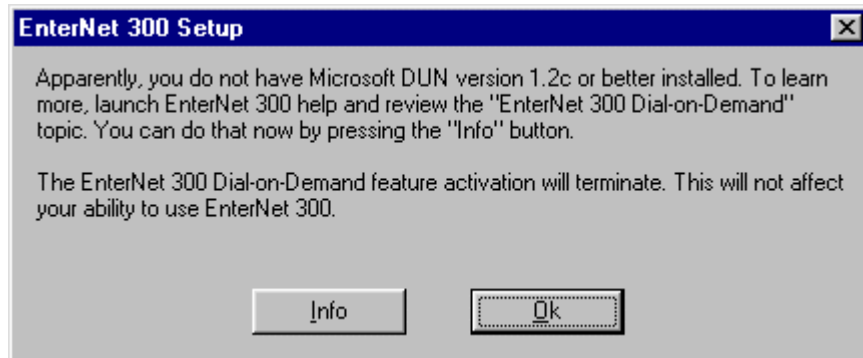
**NOTE:** FAMILIARITY WITH Microsoft Dial-Up Networking (DUN) WILL BE HELPFUL WHEN INSTALLING DIAL-ON-DEMAND.

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2. Click the **Info** button to run the **EnterNet Help facility**, presenting the topic that that discusses Dial-on-Demand.
3. Click the **No** button to skip Dial-on-Demand activation and proceed with the installation process. EnterNet will function normally in all respects.



If you click **Yes**, but your computer does not have Microsoft DUN version 1.2c or later installed, the following panel will open:



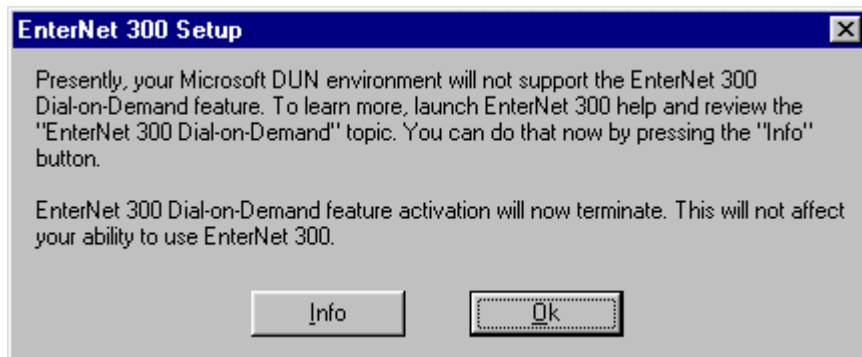
1. Click the **Info** button to run the **EnterNet Help facility**, presenting the topic that discusses Dial-on-Demand.
2. Click the **OK** button to resume the installation process. (See *EnterNet Dial-on-Demand*.)

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**NOTE:** DIAL-ON-DEMAND IS AN OPTIONAL FEATURE. IT DOES NOT HAVE TO BE PRESENT FOR ENTERNET TO FUNCTION NORMALLY.

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If you have Microsoft DUN version 1.2c or newer installed on your computer, but you do not have at least one DUN profile created, the following panel will open:

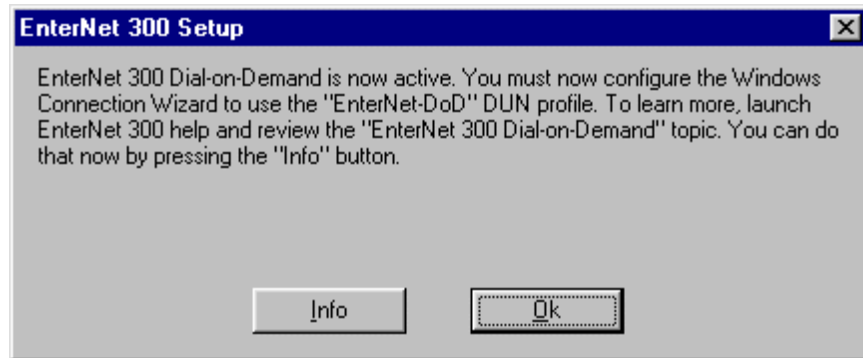


1. Click the **Info** button to run the **EnterNet Help facility**, presenting the topic that discusses Dial-on-Demand.

## EnterNet 300 for Windows User Guide

2. Click the **OK** button to resume the installation process. (See *EnterNet Dial-on-Demand* for instructions for activating Dial-on-Demand after EnterNet installation has completed.)

Once the optional Dial-on-Demand feature is successfully installed, the following panel will open:



To begin using Dial-on-Demand, you will need to make a configuration change to your Microsoft Windows environment. Click the **Info** button on this panel to take you to the section of the **Help facility** that discusses the necessary configuration change. You can also learn about this change by reviewing the *EnterNet Dial-on-Demand* section of this User's Guide.

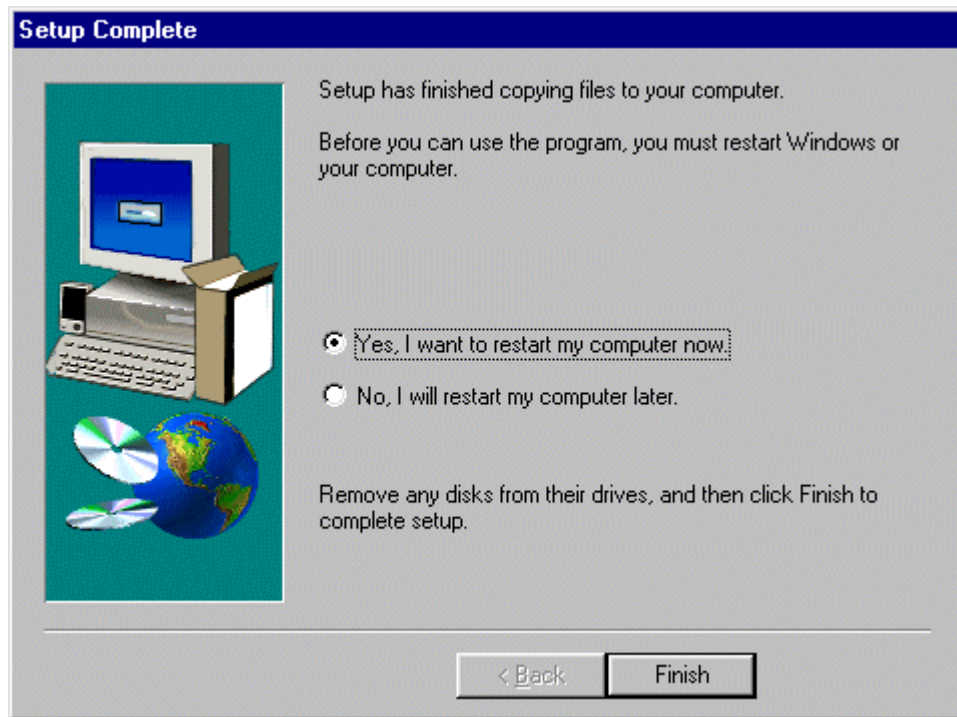
The **Setup Complete** panel opens.

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**NOTE:** A SYSTEM RESTART IS REQUIRED AFTER INSTALLING ENTERNET. THE REQUISITE RESTART CAN TAKE LONGER THAN USUAL. THIS IS DUE TO THE REMAINING, BEHIND-THE-SCENES TASKS BEING PERFORMED BY THE ENTERNET INSTALLER AND BY WINDOWS. THIS PROCESS CAN RESULT IN SEVERAL MINUTE S OF APPARENT INACTIVITY, DEPENDING ON THE SPEED AND CONFIGURATION OF YOUR SYSTEM.

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1. Select **Yes, I want to restart my computer now** if you want to finish the installation process.
2. Select **No, I will restart my computer later** if you want to wait to finish the installation process.



## Getting Help for EnterNet

There are three ways to access EnterNet's **Help facility**.

1. Select **Help Contents** from the Connection Manager.
2. Select **EnterNet 300 Help** from the Efficient Networks EnterNet 300 folder on the Windows **Start** menu
3. When present, click the **?** button in the upper right-hand corner of any EnterNet screen.

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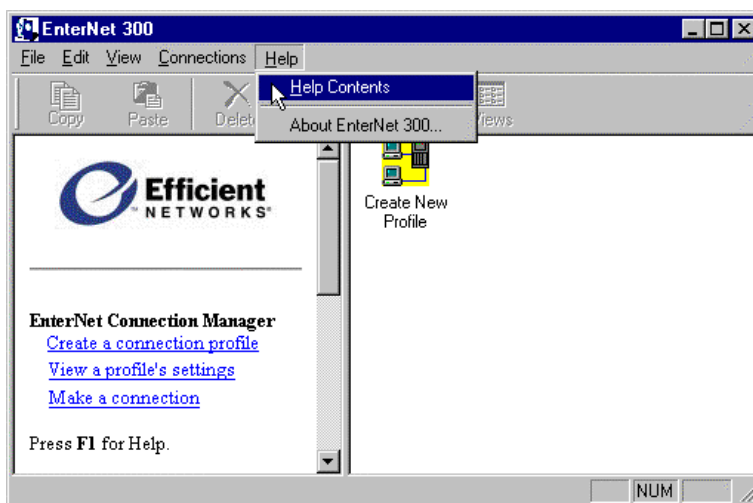
**NOTE:** WHILE VIEWING A **HELP** PAGE, HOVERING YOUR CURSOR OVER CERTAIN GRAPHICS WILL CAUSE THE CURSOR TO CHANGE INTO A HAND. THIS INDICATES THE AVAILABILITY OF ADDITIONAL INFORMATION. CLICK THE GRAPHIC TO VIEW AN INFORMATIONAL POP-UP SCREEN.

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**NOTE:** MOST ENTERNET PANELS OFFER TOOLTIPS TO CLARIFY THE PURPOSE OR FUNCTION OF A FEATURE OR PARAMETER. MOMENTARILY HOVER THE CURSOR OVER A REGION OF AN ENTERNET PANEL TO SEE A TOOLTIP, IF AVAILABLE.

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For additional assistance with EnterNet, visit the EnterNet Frequently Asked Questions (FAQ) page at the following URL:

<http://support.efficient.com/KB/NTS/index.html>



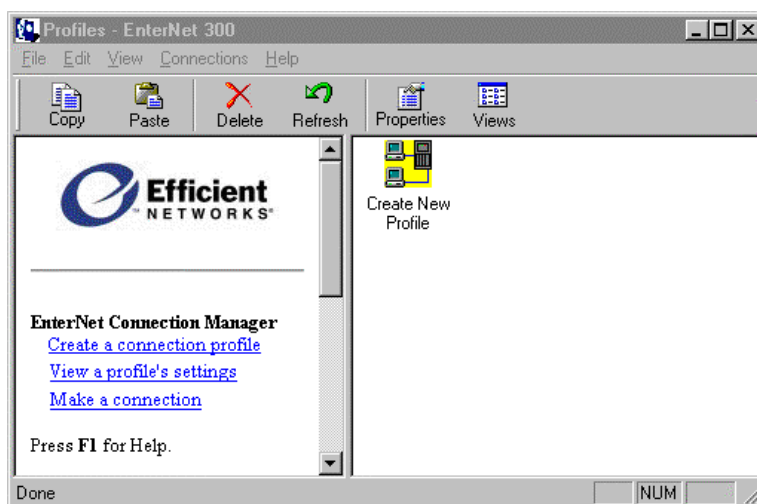
## Opening the Connection Manager

Before you can attempt to make a network connection, you must open the **Connection Manager**. You can open the Connection Manager in two ways:

1. Launch the **EnterNet 300 shortcut** on your desktop (if your service provider pre-configured the EnterNet installer to place one there, and you answered **Yes** when the installer asked if you want the shortcut installed).



2. Launch **EnterNet 300** from the Windows **Start** menu. From the Windows **Start** menu, navigate to the folder where the EnterNet 300 application was installed. The default **Start** menu path will be: Start\Programs\Efficient Networks EnterNet 300.



## Connection Profiles

To connect to the network, you will need to use a Connection Profile. Connection Profiles are located in the right-hand pane of the **Connection Manager**. For convenience, you can create Windows shortcuts to these profiles and place the shortcuts on your desktop, in the **Quick Launch** portion of your Windows **taskbar**, or in any other folder you specify.



Connection Profile

Service Profiles may also populate the right-hand pane of the Connection Manager. Service Profiles offer users premium online content, such as live video feed, or access to high-speed, interactive gaming networks. Available services are dynamically learned by EnterNet and, depending on how you have configured EnterNet, may appear in the **Connection Manager**. (See *Advertised Services* for more information on how to configure EnterNet so that Service profiles appear in the **Connection Manager**.)



Service Profile



Service Profile - configured

To create a Connection Profile, you must run the Connection Wizard, which will guide you step-by-step through the process of creating a new Connection Profile. There are two ways to run the Connection Wizard:

1. Double-click the **Create New Profile icon**, located in the right-hand pane of the **Connection Manager**.
2. Select **Make New Connection** from the **Connection Manager Connection menu**.

The Connection Wizard is now active.

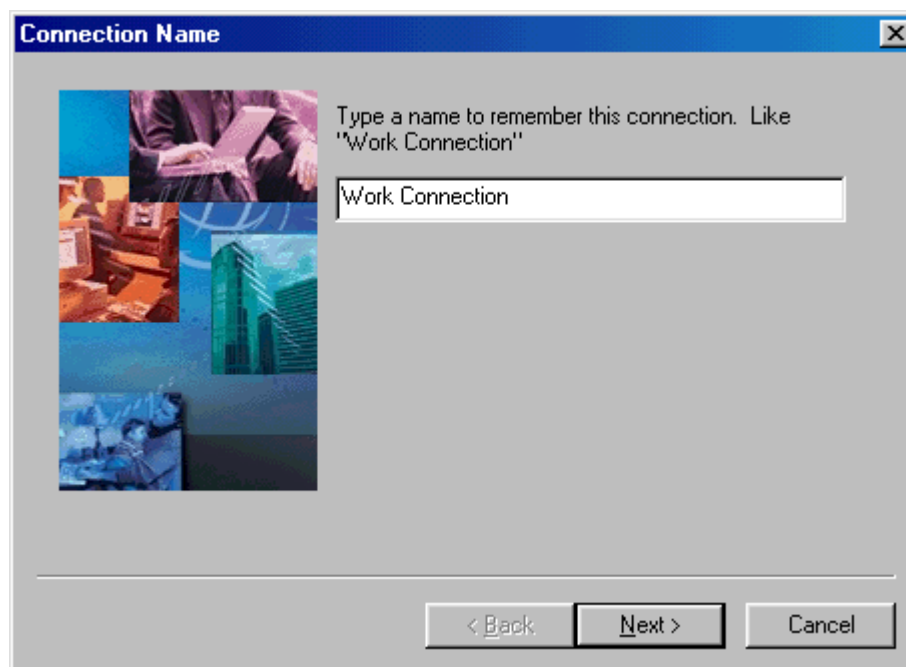
The **Connection Name** panel opens.

3. Enter the desired name (that is, "DSL Connection," "Work Connection," and the like) in the text field of the **Connection Name** panel.

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**NOTE:** THE NAME YOU GIVE YOUR **CONNECTION** NEED NOT BE THE SAME AS THE USER NAME THAT WILL BE ASSOCIATED WITH THAT PROFILE.

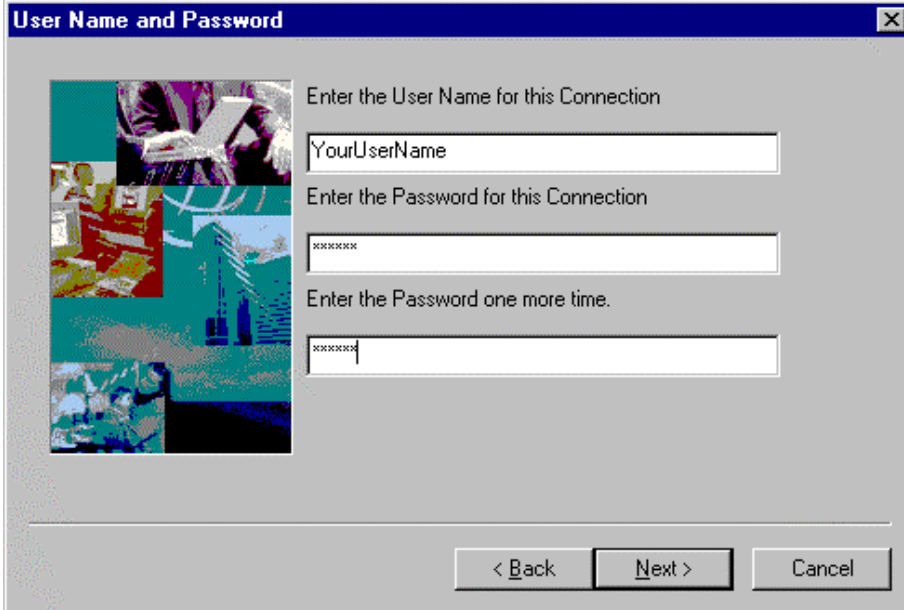
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Click **Next**.

The **User Name and Password** panel opens.

4. Enter your user name and password into the text field. They are both case-sensitive: "Password" and "PASSWORD" differ from "password."



**User Name and Password**

Enter the User Name for this Connection

YourUserName

Enter the Password for this Connection

xxxxxxxxxx

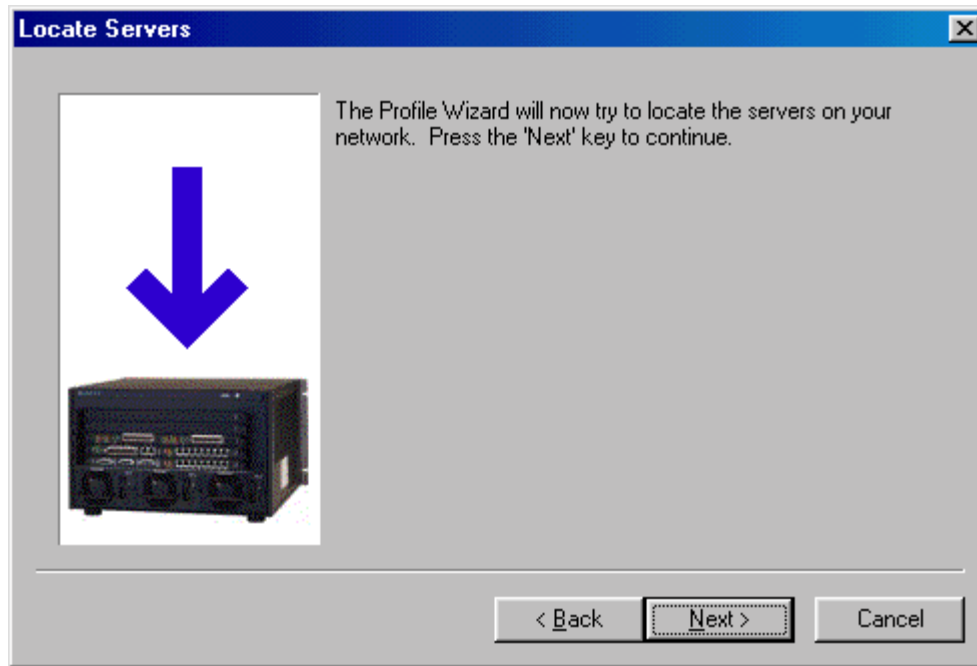
Enter the Password one more time.

xxxxxxxxxx

< Back   Next >   Cancel

Click **Next**.

The **Locate Servers** panel opens. This panel will inform you that EnterNet is ready to attempt to locate servers and services.



Click **Next**.

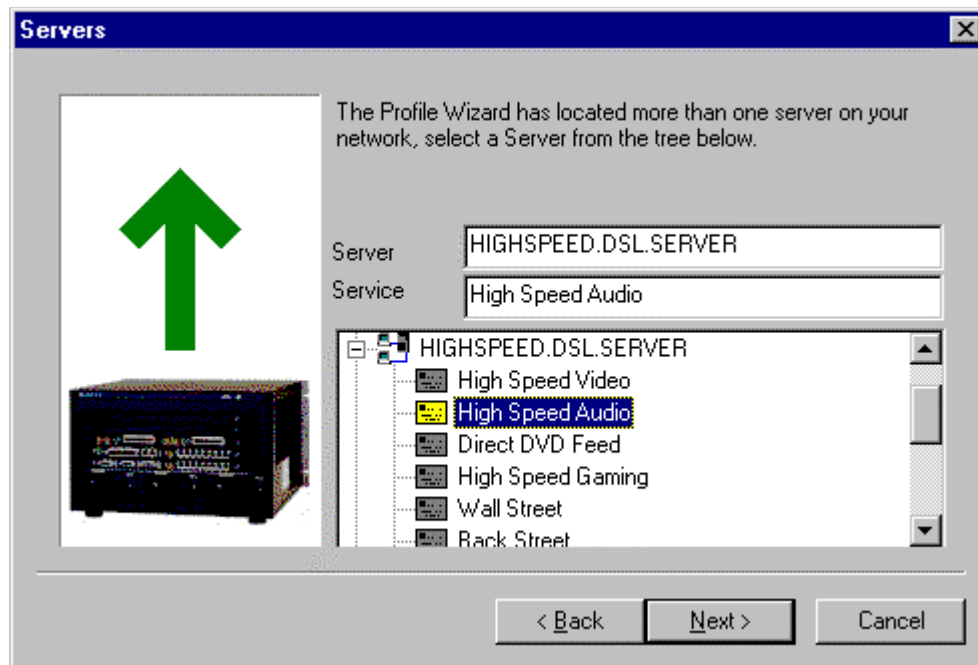
The **Servers** panel opens.

5. The **Servers** panel displays a list of network servers discovered by EnterNet automatically. It enables you to select a specific network server and the available services provided by that server. The **Server** and **Services** fields are left blank by default, which means the first available server will respond to your request for a connection.

---

**NOTE:** YOU SHOULD LEAVE THESE FIELDS BLANK UNLESS OTHERWISE INSTRUCTED BY YOUR SERVICE PROVIDER OR NETWORK ADMINISTRATOR.

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**NOTE:** THE PROVIDER, IN CASES WHERE SERVERS OR SERVICES ARE NOT ADVERTISED, CAN HIDE THE SERVERS PANEL.

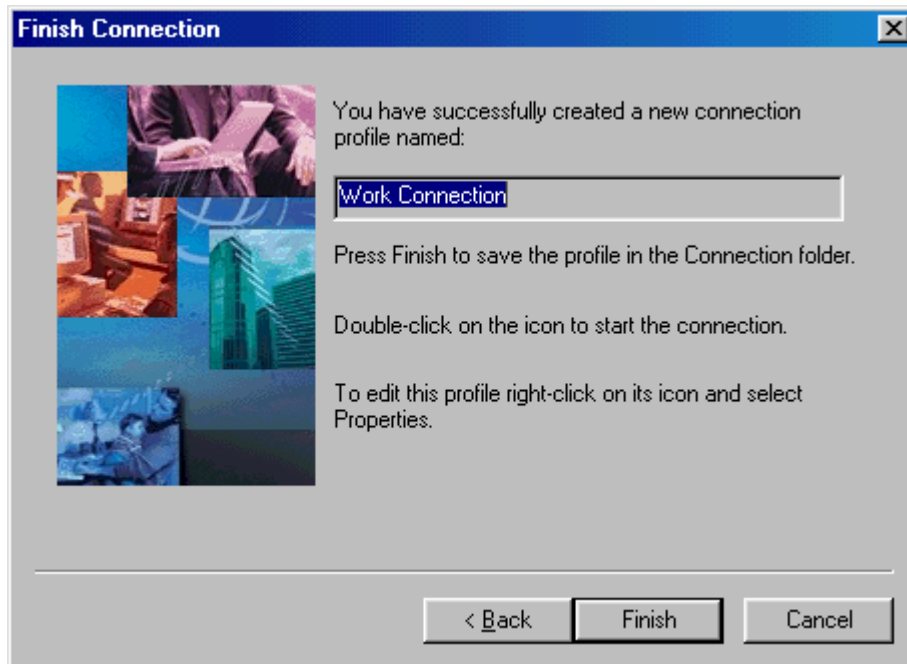
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Click **Next**.

The **Finish Connection** panel opens.

If you are satisfied that you have correctly completed the Connection Profile, click the **Finish** button. You can click the **Back** button to review and change any of the information you provided to the Connection Wizard.

Once you have clicked the **Finish** button, your new Connection Profile will appear in the right-hand pane of the **Connection Manager**.



There are two ways to modify the parameters of a Connection Profile:

1. If the profile you want to modify is not running, right-click the desired **Profile icon** in the **Connection Manager** and select **Properties** from the pop-up menu.
2. If the profile you want to modify is running, right-click the profile's **system tray** icon and select **Properties** from the pop-up menu.

## Advertised Services

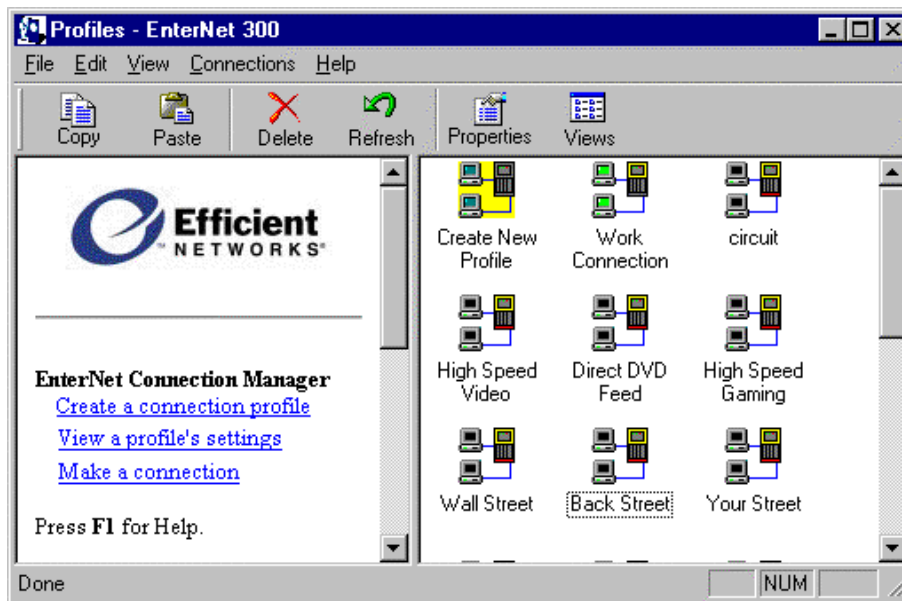
EnterNet discovers services carried and advertised by your service provider automatically (See *EnterNet Profiles*). If you have enabled the **Show advertised services in main folder** option on the **Application Settings** panel, they will be displayed as icons in the right-hand pane of the Connection Manager, the same place where Connection Profiles are displayed. **Service Profiles** include a small red bar, which distinguishes them from Connection Profiles.

Before you can use a Service Profile, you must configure it. To configure a Service Profile, double-click its icon in the **Connection Manager** and provide the requested information. You will be able to identify Service Profiles that you have configured by the green 'screens' on their **Connection Manager icons**. Un-configured Service Profiles have black screens.

---

**NOTE:** MOST SERVERS DO NOT ADVERTISE SERVICES AND THUS **SERVICE PROFILES** MAY NOT APPEAR IN THE **CONNECTION MANAGER**, EVEN IF YOU HAVE ELECTED TO DISPLAY THEM.

---



DSL User

Connection Profile



Direct DVD Feed

Service Profile



High Speed Audio

Service Profile - configured



## Connecting with EnterNet

Double-click the **Connection Profile** icon.

1. The **Connection** panel opens and **EnterNet icon** appears in the Windows **system tray**.
2. Verify that the User Name and Password presented on the **Connection** panel are correct.
3. Click the **Connect** button.

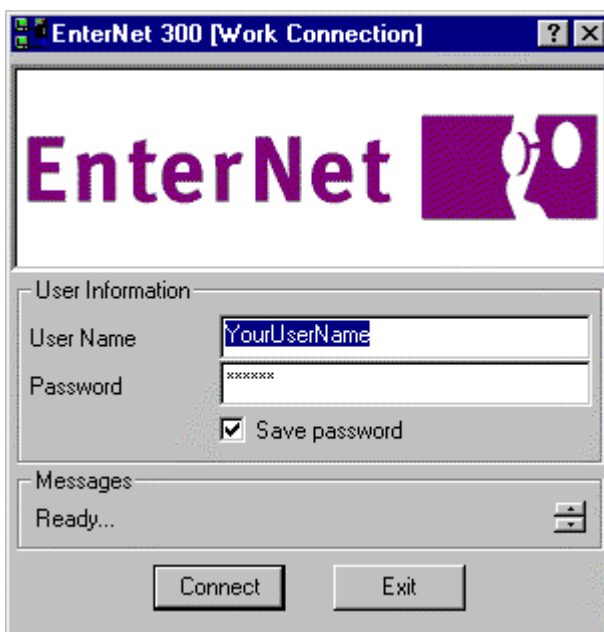
EnterNet's **system tray** icon will change. See *System Tray* for more information about the various states of the **EnterNet system tray** icon.

4. The **Connection** panel closes.

---

**WARNING:** IF THE ATTEMPT TO ESTABLISH A CONNECTION FAILS, THE **CONNECTION PANEL** WILL REMAIN ON YOUR SCREEN AND A MESSAGE INDICATING THE REASON FOR THE FAILURE WILL BE PRESENT IN THE **MESSAGES WINDOW** OF THE **CONNECTION PANEL**. **DOUBLE CLICK THIS MESSAGE TO VIEW AN ACTIVITY LOG FOR THE SESSION. THIS INFORMATION WILL HELP YOU AND YOUR SERVICE PROVIDER DETERMINE AND CORRECT THE PROBLEM SEE CONNECTION ERRORS.**

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## System Tray Icon

Once a Connection Profile is running, EnterNet will place a status icon in the Windows **system tray**. By default, the Windows **system tray** appears in the lower right corner of your screen, at the end of the Windows **taskbar**.

The EnterNet status icon provides you with information about the current state of your connection. The icons reflect the following information:

- Connection status
- Send data status
- Receive data status
- Network Health (see “Advanced Diagnostics”)

Refer to the images below for better understand the meaning of each **EnterNet system tray icon** state.



**“Connect” button  
not yet pressed**



**Attempting to connect**



**Connected, idle**



**Connected, sending data**



**Connected, receiving data**



**Sending and receiving**



**Network health good**



**Network health marginal**

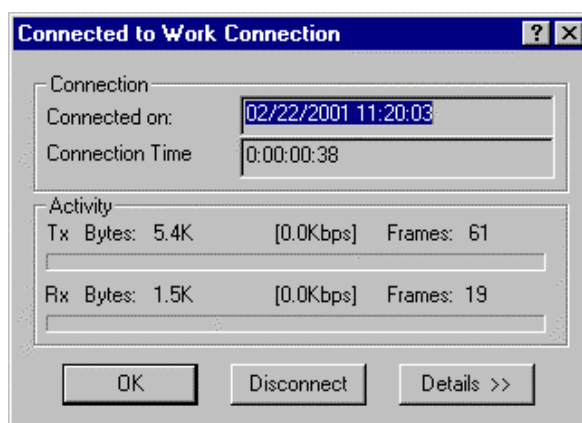


**Network health bad**

## Disconnecting EnterNet

There are several ways to disconnect EnterNet.

1. If you want both to terminate your session and close the active Connection Profile, right-click the EnterNet **system tray icon** and select **Exit** from the pop-up menu.
2. If you want to terminate your session but leave the active Connection Profile open, either select **Disconnect** from the **system tray** pop-up menu, or select **Connection Details**, and press the **Disconnect** button when the **Connection Details** panel appears (See *Connection Details*).



## Connection Messages

Throughout the process of establishing your connection, the **Messages** field of the **Connections** panel will keep you updated of its status. Following are the messages that will be displayed:

- **Beginning Negotiation**--Initial contact made with remote server. Negotiating for authentication.
- **Authenticating**--Authentication successfully taking place.
- **Receiving Network Parameters**--Negotiating network configuration parameters.
- **Updating Network Parameters**--IP addresses received from server and passed on to TCP/IP stack bound to the EnterNet adapter.

## Connection Details

The **Connection Details** panel provides a variety of general information about your connection. For additional information, click the **Details** button. See *Disconnecting with EnterNet* for more information.

The screenshot shows a Windows-style dialog box titled "Connected to Work Connection". It contains several sections: "Connection" with fields for "Connected on:" (02/22/2001 11:20:03) and "Connection Time" (0:00:01:28); "Activity" with "Tx Bytes: 5.9K [0.0Kbps] Frames: 65" and "Rx Bytes: 1.7K [0.0Kbps] Frames: 23"; and a table of connection parameters. At the bottom are "OK", "Disconnect", and "Details <<" buttons.

Description	Value
Protocol	PPPoE
IP Address	172.17.52.86
Encryption	None
DNS Primary	172.17.52.25
DNS Secondary	172.17.52.85
NBNS Primary	172.17.52.25
NBNS Secondary	172.17.52.85
Protocols	IP
SecurID	Disabled
Access Concentrator	HIGHSPEED.DSL.SERVER

## Profile Properties Panel

There are several ways to open the **Profile Properties** panel.

1. Select **Profile Properties** from the **system tray** pop-up menu.
2. Select **Properties** from the **right-click pop-up menu** of your Connection Profile **icon** in the **Connection Manager**.
3. Click **Properties** on **Connection Manager's** toolbar.

## User Information Panel

To open the **User Information** panel, click the **User Information** tab of the **Profile Properties** panel. On the **User Information** panel you can:

- Change the User ID or Password of your Connection Profile.
- Check the **Default Profile** checkbox to identify the Connection Profile of your choice as your default profile. The default profile is the profile EnterNet will run if you select **Launch EnterNet 300 at Windows Startup** in the **Application Settings** panel. If you have only one Connection Profile created, this profile will serve automatically as the default profile and the **Default Profile** check box is grayed out.



## TCP Panel

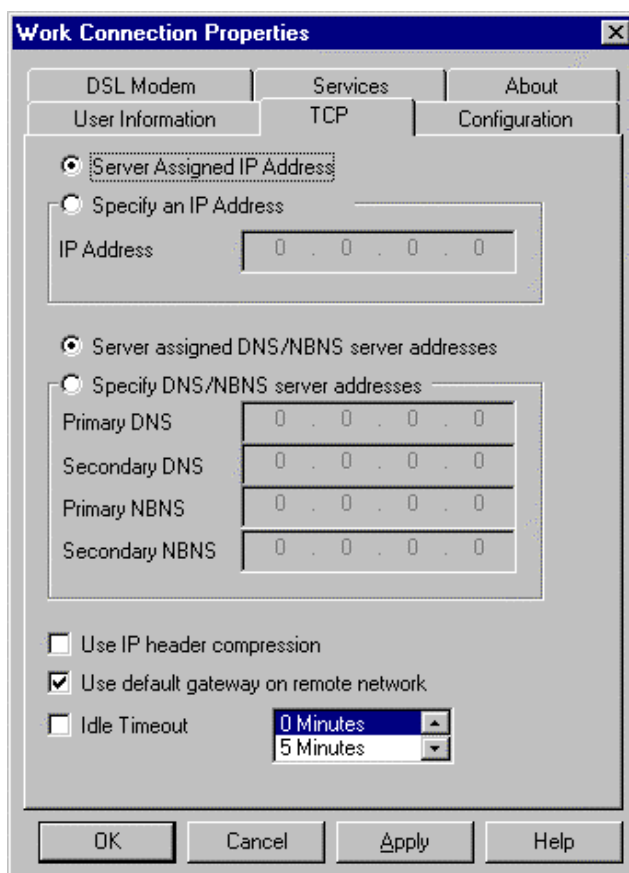
To open the **TCP** panel, click the **TCP** tab of the **Profile Properties** panel. On the **TCP** panel you can:

- Specify the IP address for your session and for your name servers.
- Specify the settings for IP header compression and default gateways.

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**NOTE:** UNLESS YOU ARE SPECIFICALLY DIRECTED BY YOUR SERVICE PROVIDER TO CHANGE THE SETTINGS ON THIS PANEL, YOU ARE ADVISED TO LEAVE THEM AS THEY ARE. YOUR INTERNET CONENCTION MAY FAIL TO FUNCTION IF YOU CHANGE THESE SETTINGS. HOWEVER, FEEL FREE TO TURN ON THE **IDLE TIMEOUT** FEATURE, AND TO CHANGE THE TIME-OUT DURATION. **IDLE TIMEOUT** WILL CAUSE ENTERNET TO DISCONNECT FROM THE NETWORK AFTER THE INDICATED PERIOD OF IDLE TIME.

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## Adapter Configuration Panel

To open the **Adapter Configuration** panel, select the **Adapter** tab of the **Properties** panel. The **Adapter Configuration** panel contains two sections:

- **Configuration:** This section consists of a drop-down list of adapters from which you can select the device you want to use to make your connection.

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**NOTE:** ENTERNET REQUIRES THAT AN ETHERNET ADAPTER BE SELECTED IN THIS FIELD.

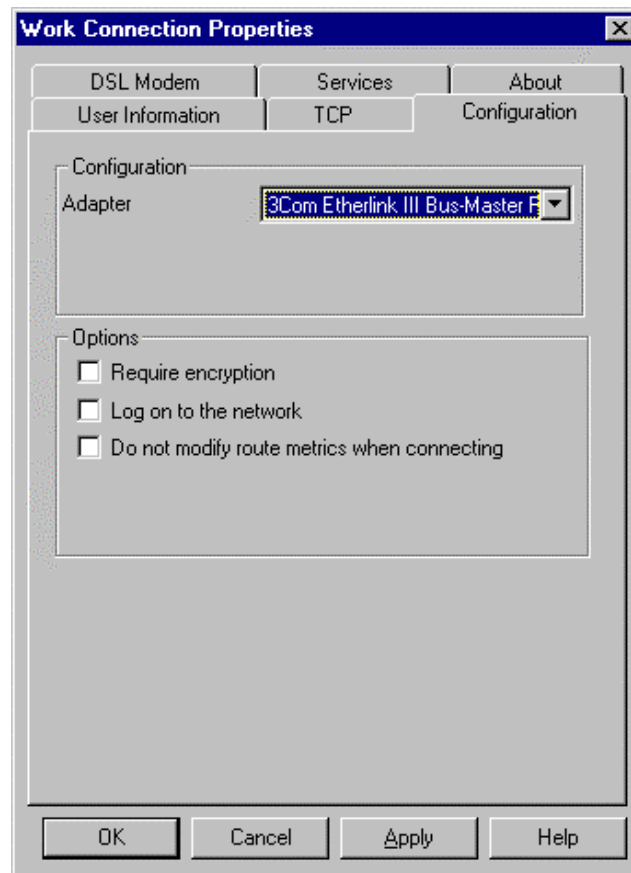
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- **Options:** This section displays a list of three check boxes, which you can click to require encryption, log onto the network automatically, and modify route metrics when connecting.

Unless you are specifically instructed to change these values, it is recommended that you leave these check boxes at their default settings.



## Adapter Configuration Panel

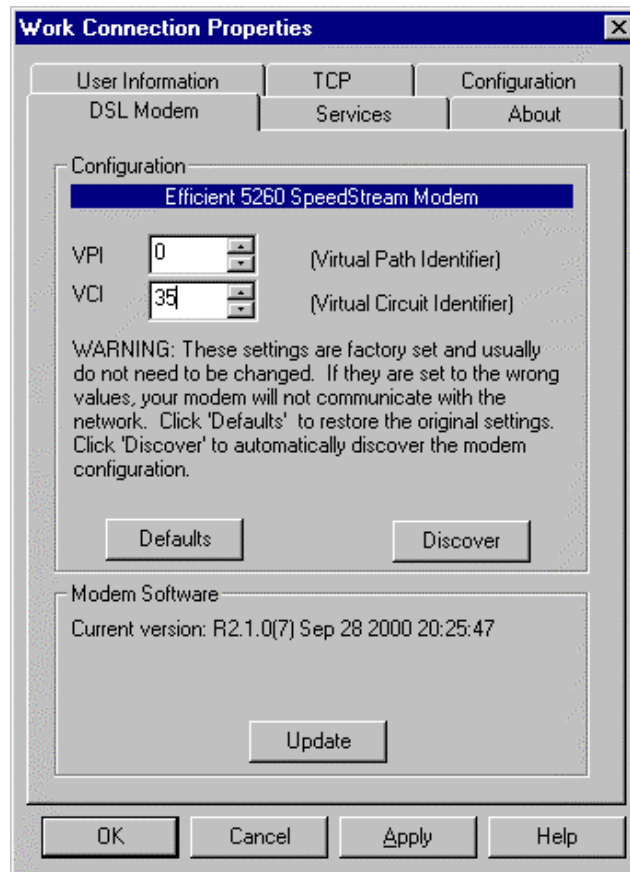


## DSL Modem Panel

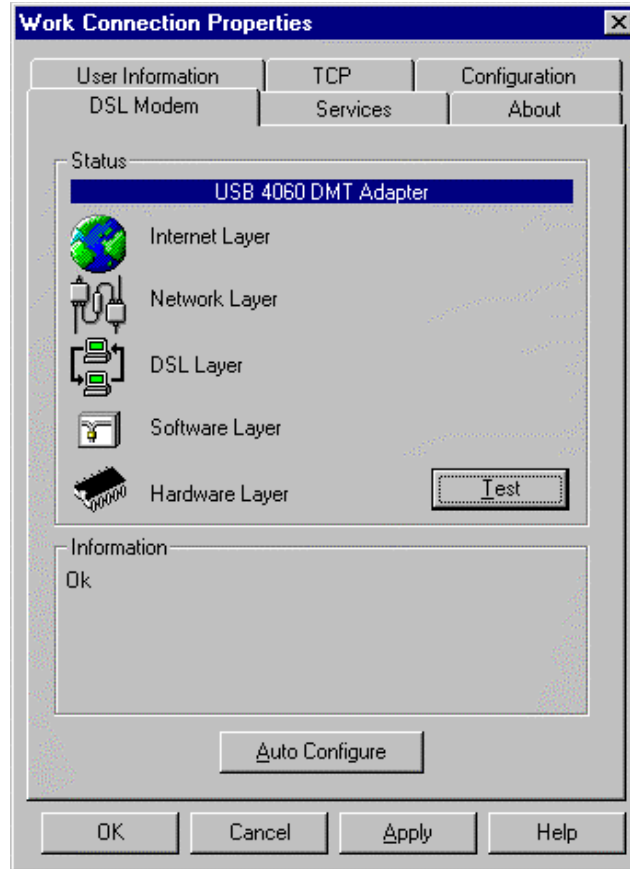
To open the **DSL Modem** panel, select the **DSL Modem** tab of the **Profile Properties** panel.

The **DSL Modem** panel allows you to adjust the configuration parameters of your DSL Modem connection. The panel displays two different sets of options, depending upon whether your connection is configured for use with an internal or external modem.

If your connection is configured for use with an external modem, the **DSL Modem** panel will appear as below. The **Configuration** portion of the panel contains two values, one for Virtual Path Identifier, the other for Virtual Circuit Identifier. These values are factory-set and you are encouraged to leave them as they are. The bottom portion of the panel, **Firmware**, contains a button labeled **Upgrade**. Press the **Upgrade** button if you want to upgrade to a higher level of Firmware.



If your connection is configured for use with an internal modem, the DSL Modem panel will appear as below.



The upper portion of the panel, **Status**, contains a five-layer test, which you can use to test the status of your modem's connection. The bottom portion of the panel, **Information**, contains the outcome of your test. Press the **Autoconfigure** button to configure your DSL Modem.

## Services Panel

To open the **Services** panel, select the **Services** tab of the **Profile Properties** panel. On the **Services** panel, you can change the PPPoE server to which you want to authenticate, and you can select the Service associated with the profile. (See *PPPoE Server Address*.)

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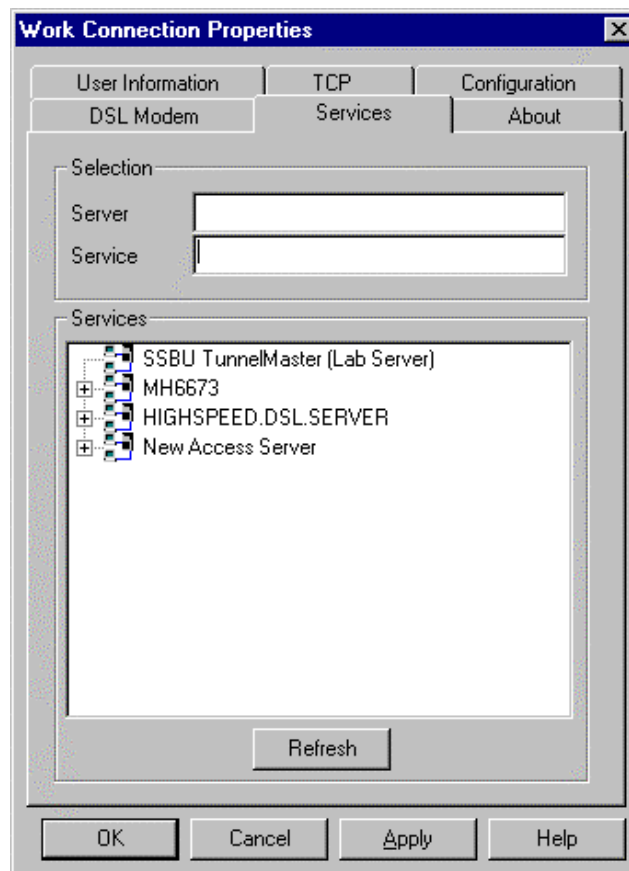
**NOTE:** THE SERVERS WINDOW MAY BE HIDDEN BY THE PROVIDER, IN CASES WHERE SERVERS OR SERVICES ARE NOT ADVERTISED.

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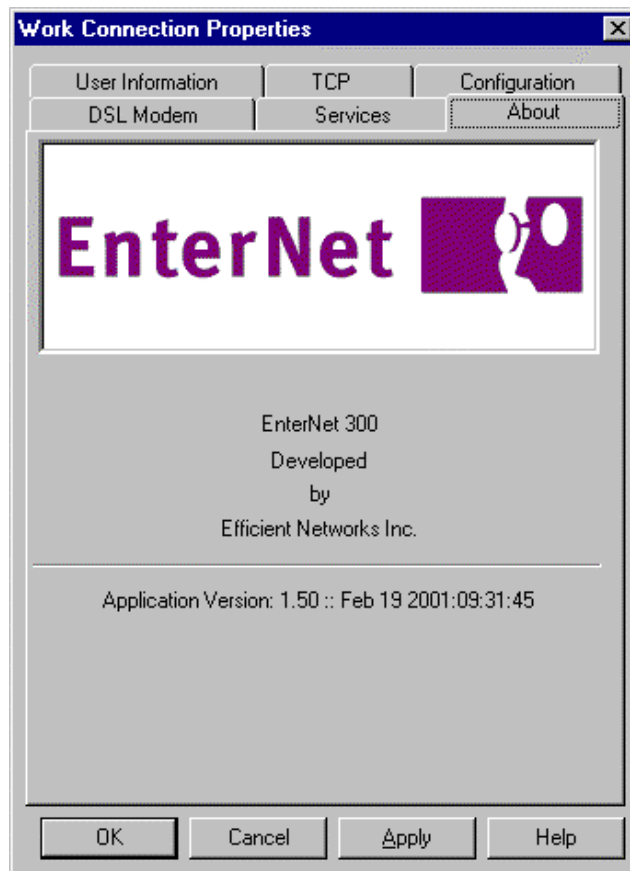
**NOTE:** DO NOT SELECT SERVICE UNLESS YOU ARE REQUIRED TO BY YOUR ISP.

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## About Panel

To open the **EnterNet About** panel, select the **About** tab of the **Profile Properties** panel. The **About** panel displays the company name, application version and software build dates, which can be helpful to your service provider when troubleshooting.



## Application Settings Panel

There are several ways to open the **Application Settings** panel:

1. Select **Application Settings** from the **system tray** pop-up menu.
2. Select **Settings** from the **Connections** menu on the **Connection Manager**.

The options and settings contained on the **Application Settings** panel are global in nature and apply to all Connection Profiles. The options and settings contained on the **Application Setting** panel are:

- **Launch EnterNet at Windows Startup:** Causes EnterNet to run the default Connection Profile at Windows start-up.
- **Auto-Connect:** Cause EnterNet to run automatically without you having to press the **Connect** button of the **Connection** panel when you run a Connection Profile.
- **Enable ToolTips:** Causes a brief descriptive message to appear over any ToolTip-equipped area of an EnterNet panel when a cursor is hovered over it.
- **Detailed Log:** Causes additional detail to appear in the **Messages** tab of the **Advanced** panel (See *Advanced Panel*). This box should only be marked if a support technician requires additional diagnostics information, in the event of troubleshooting.
- **Use a unique URL for each Profile:** EnterNet can be configured to run the default browser automatically and direct it to a specific URL upon network connection. It can also be configured to feed a target URL to the browser once it has been run. These configuration specifications either can be controlled globally or on a profile-by-profile basis.

Leaving the **Use a unique URL for each Profile** option deactivated allows the browser to run and URL feed to be controlled globally. In this case, the **Application Settings** panel will include a **Launch default browser after connection** option, along with a text field for specifying the target URL.

Activating the **Use a unique URL for each Profile** option allows the browser to run and URL feed to be controlled on a profile-by-profile basis, causing the desired configuration options to appear within each Connection Profile's **Properties** panel.

- **Persistent Connections:** Enables EnterNet to attempt to re-establish a connection automatically when one is broken by means other than manually terminating the session.

- **Show advertised services in the main folder:** Causes EnterNet to display advertised services in the **Connection Manager**. If this option is not active, advertised services will appear only in the **Services** tab of the Connection Profile **Properties** panel.
- **Packet Logging:** If this option is activated, it will cause Packet Logging to be accessible on the **Advanced** panel (see *The EnterNet Advanced Menu*).

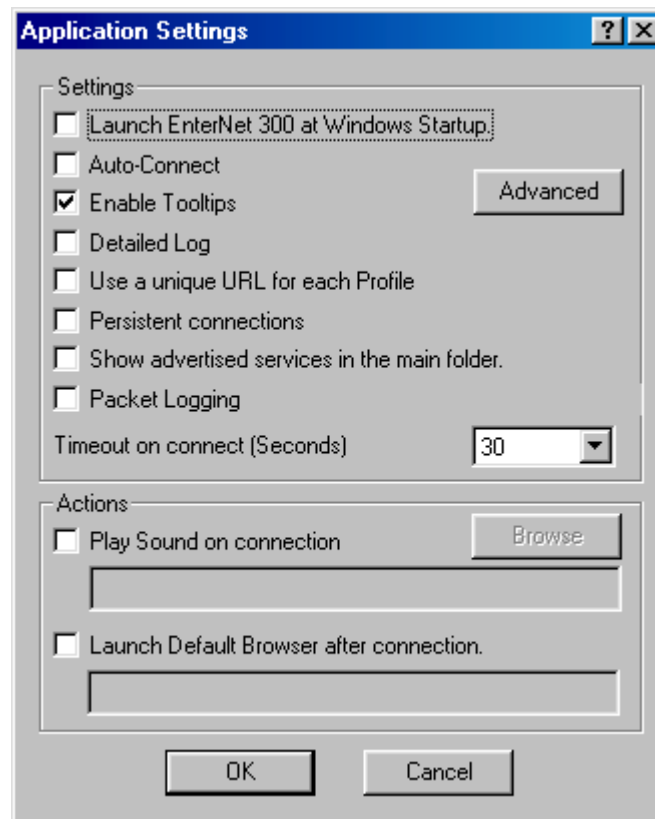
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**NOTE:** YOUR ISP MAY HAVE CONFIGURED ENTERNET WITH PACKET LOGGING DISABLED, IN WHICH CASE PACKET LOGGING WILL NOT BE PRESENT ON THE **APPLICATION SETTINGS** PANEL.

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- **Time-out on connect:** Specifies how long EnterNet will attempt a network connection before giving up.
- **Play Sound on Connection:** Enables you to select a .wav file that will be played upon the establishment of a network connection. The path to the .wav file either can be entered directly into the display window, or located using the **Browse** button.
- **Launch Default Browser after Connection:** Runs the default browser upon establishment of a network connection. A target URL can be entered manually into the text window below the check box.

## Application Settings Panel



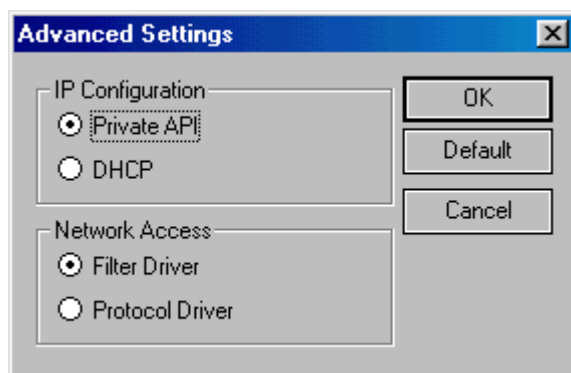


## Advanced Settings Detail

You can open the **Advanced Settings Detail** panel by clicking the **Advanced** tab on the **Settings** menu. The default settings should be used whenever possible.

The options contained on the **Advanced Settings Detail** panel are:

- **IP Configuration:** This option allows you to select between two different internal TCP/IP configuration mechanisms, Private API and DHCP. The Private API option allows EnterNet to apply the received IP configuration parameters more quickly than the DHCP option. The DHCP option allows support for a number of 3rd party products.
- **Network Access:** This option allows you to select an alternate packet driver. The default packet driver, referred to as the **Filter Driver**, should be sufficient in most cases. Only use the alternate packet driver, referred to as the **Protocol Driver**, when EnterNet is installed on a multi-processor machine. At install, the filter driver is auto-configured to be the default driver. Unless otherwise directed, you should leave this setting unchanged.



## EnterNet Dial-on-Demand

EnterNet's optional Dial-on-Demand feature eliminates the need for you to run and connect EnterNet manually when network-aware applications require network access. Most modern network-aware software, like browsers and FTP clients, can trigger EnterNet Dial-on-Demand.

Activating EnterNet's Dial-on-Demand optional feature requires one-time user intervention. It also requires familiarity with Microsoft Dial-Up Networking. Dial-on-Demand is a convenience feature that does not need to be active in order for EnterNet to function normally.

---

**NOTE:** ACTIVATING DIAL-ON-DEMAND REQUIRES FAMILIARITY WITH MICROSOFT DIAL-UP NETWORKING, THE WINDOWS CONNECTION WIZARD, AND IN SOME CASES MICROSOFT VIRTUAL PRIVATE NETWORKING.

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The system requirements for Dial-on-Demand are:

- Windows 9x, Windows Me, Windows NT4 (not supported on Windows 2000)
- Microsoft Dial-Up Networking version 1.2c or greater
- Microsoft Connection Wizard (as found within the "Internet" or "Internet Options" components of the Windows Control panel, and with newer versions of Internet Explorer)

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**NOTE:** DIAL-ON-DEMAND IS NOT SUPPORTED ON WIN 2000 AND WITH SOME APPLICATIONS ON NT. IT IS NOT SUPPORTED BY INTERNET CONNECTION SHARING. SEE INTERNET CONNECTION SHARING FOR MORE INFORMATION.

---

### Dial-on-Demand and MS DUN Compatibility

For Dial-on-Demand to function, Microsoft Dial-Up Networking (DUN) version 1.2c or better be installed and configured on your computer.

All versions of Windows 98 and Windows Me ship with a version of MS DUN that is compatible with EnterNet Dial-on-Demand. Windows 95 and older versions of Windows NT 4 can have versions of MS DUN that are not compatible with EnterNet Dial-on-Demand. EnterNet's Dial-on-Demand feature is not compatible with Microsoft's Windows 2000 Operating System. By installing Internet Explorer version 5.x or newer on any supported Windows platform where Dial-Up Networking is already present, you will ensure that an appropriate version of Dial-Up Networking is present on your system.

The best way to ensure that you have the proper version of MS DUN is to fully install the most current version of Microsoft Internet Explorer on your computer. Optionally, if you have an older version of MS DUN you can download and run the file `msdun13.exe` from the Microsoft web page, which will upgrade your DUN version to 1.3. Simply go to [www.microsoft.com](http://www.microsoft.com) and use the search utility to look for `msdun13.exe`.

### Configuring MS DUN for use with Dial-on-Demand

Before EnterNet Dial-on-Demand can use MS DUN, you will need to fully configure DUN, to include the creation of at least one DUN profile. To create a DUN profile, follow the instructions below.

1. Configure a DUN device to which DUN can associate DUN profiles. An internal dial modem is a good device choice. If you don't have a dial modem, you can simply install MS Virtual Private Networking (VPN) software from your Windows CD, which will allow you to create a Microsoft VPN Adapter device, to which DUN profiles can be associated.
2. Follow the instructions provided by Windows to install and configure DUN and VPN, as necessary. If you must, create a dummy DUN profile using either an artificial phone number if the dummy profile will be associated with a modem device, or a private IP address (192.192.192.192 is usually a good choice) if the dummy profile will be associated with the Microsoft VPN Adapter. The dummy profile will never actually be used.

### Activating Dial-on-Demand

EnterNet is typically purchased by ISPs for distribution to their customers. At the time of installation, EnterNet provides you with the option to either install or to not install Dial-on-Demand feature. If, during EnterNet installation you were not asked if you want to activate the optional Dial-on-Demand feature, then your ISP set the EnterNet installer to not automatically activate EnterNet Dial-on-Demand. However, they may have provided you the means to activate it manually. To determine if your ISP has provided you the option to manually activate DoD, look for an **Activate DoD** item in the **Connection Manager** on the Windows **Start** menu.

Once MS DUN version 1.2c or better is installed on your computer and you have created at least one DUN profile, you can then activate EnterNet's Dial-on-Demand feature. If EnterNet's Dial-on-Demand feature wasn't activated during EnterNet installation, but your ISP provided you the means to activate it manually, you can activate it by selecting **Start>Programs>EnterNet>ActivateDoD**. Clicking this selection will result in no apparent activity. To confirm that Dial-on-Demand was activated, look in the MS DUN folder for a new entry named **EnterNet DoD**.

## Configuring the Windows Connection Wizard

You can now configure the Windows Connection Wizard so that it will select EnterNet whenever an application asks it to establish a network connection. To configure the Connection Wizard, follow the instructions below:

1. Launch the **Control** panel from the **Settings** folder of the Windows **Start** menu.
2. Launch **Internet** or **Internet Options**.
3. Click the **Connections** tab.
4. Look for a window titled Dial-up settings. If you have such a window, perform steps 5-8, below. If not, please skip forward to step 9.
5. In the Dial-up settings” window, click the entry labeled **EnterNet DoD**.
6. Select the **Always dial my default connection** radio button (or the button that best approximates that meaning.)
7. Click the **Set Default** button.
8. Click **OK**. You can skip the rest of the following numbered steps.
9. If you do not see a window titled “Dial-up settings”, select **Connect to the Internet using a modem**.
10. Click the **Settings** button.
11. Select **EnterNet DoD** from the pop-up window.
12. Save your new settings and close all windows you have opened.

## Troubleshooting Dial-on-Demand

If you have difficulty activating Dial-on-Demand, see the EnterNet FAQ website at:

<http://support.efficient.com/KB/NTS/index.shtml>

Otherwise contact your Service Provider or Network Administrator.

## EnterNet and Windows Internet Connection Sharing

Internet Connection Sharing (ICS) is a feature of the Windows 98 Second Edition operating system. ICS allows all the computers on your home Ethernet network to share a single Internet access device. Beginning with version 1.31, EnterNet is compatible with ICS.

The instructions below will guide you through the process of correctly installing the version of ICS that comes with Windows 98 Second Edition. Before you begin, you should read the *Internet Connection Sharing Overview* section of the Windows Help system. Once you've reviewed Windows Help, you will be better prepared to understand the concepts presented below.

In an ICS environment, EnterNet need only be installed on the Connection Sharing computer. When planning your network layout, keep in mind that the Connection Sharing computer must be running, and must be connected the Internet, before other computers on your home network can access the Internet. In most homes, this means one computer will be left on at all times.

Follow the steps below to install and activate EnterNet and ICS on your home network:

1. Install EnterNet on the machine that will become your Connection Sharing computer. Do not install ICS before you install EnterNet.
2. Once EnterNet is installed, you will need to change one of its **Advanced Settings** parameters to support ICS. You accomplish this as follows:
  - I. From the Windows **Start** menu, navigate first to the **Programs** folder, then to the **Efficient Networks EnterNet 300** folder. Select and run **EnterNet 300**.
  - II. On the EnterNet application, click the **Connections** menu, and then select **Settings**.
  - III. The **Application Settings** panel opens. Click the **Advanced** button.
  - IV. The **Advanced Settings** panel opens. In the **IP Configuration** box, select the **DHCP** button. Next click **OK**.

3. Add the Microsoft Internet Connection Sharing (ICS) utility to your Connection Sharing computer, as follows:

- I. From the Windows **Start** menu, navigate to the **Settings** folder and open the **Control Panel**.
- II. From the **Control Panel** folder, run **Add/Remove Programs**.
- III. Click the Windows **Setup** tab on the **Add/Remove Program Properties** panel.
- IV. Select **Internet Tools** in the **Components** window, and click the **Details** button.
- V. Click in the **selection box** to the left of Internet Connection Sharing, and then click the **OK** button. Click the **OK** button on the resulting panel.
- VI. Follow the on-screen instructions. (You will probably need your Windows CD.)
- VII. When asked **What type of connection do you use to access the Internet?**, select **High-speed connection**, then click the **Next** button.
- VIII. The next panel will ask you to **Select the network adapter....** Select **Network TeleSystems PPPoE adapter** from the list of adapters in the **Network adapters** window, then click the **Next** button.

---

**NOTE:** YOU MUST HAVE ENTERNET VERSION 1.31 OR LATER IF YOU WANT TO USE ICS. IF YOU SEE AN ENTERNET ADAPTER IN THE LIST THAT CONTAINS PPPoE WITHOUT PERIODS FOLLOWING EACH LETTER (I.E., P.P.P.O.E.), THEN YOUR VERSION OF ENTERNET IS EARLIER THAN VERSION 1.31, AND WILL NOT SUPPORT ICS. IT IS RECOMMENDED THAT YOU UPGRADE TO THE MOST CURRENT ENTERNET RELEASE.

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- IX. The ICS Wizard will notify you that it is about to create a Client Configuration Disk. Click the **Next** button. Once the ICS Wizard has finished creating the disk, it will continue configuring your system, after you click the **Finish** button. A system re-boot will be required to complete the ICS installation process.

4. Follow the steps below at each of the computers that will share your Internet access device (excluding the Connection Sharing computer):

- I. Insert the **Client Configuration Disk** into the floppy drive.
- II. From the Windows **Start** menu, navigate to the **Programs** folder and run **Windows Explorer**. Select your floppy drive in the Folders window, then run the file named `ICSCLSET.EXE`.
- III. The Browser Connection Setup Wizard will appear. Click the **Next** button. You will be presented with an information panel that tells you the Wizard is about to check and, if necessary, change your browser settings. Click **Next**.
- IV. The next panel advises you that the Wizard has completed its work. Click the **Finish** button.
- V. Repeat steps I through IV above, at each computer on your network, except the Connection Sharing computer.

EnterNet and ICS are now ready to provide Internet access to every computer on your home network. Be sure the Connection Sharing computer is connected to your service provider before you attempt to access the Internet from any of the other computers.

---

**NOTE:** COMPUTERS THAT SHARE YOUR INTERNET ACCESS DEVICE THROUGH ICS WILL NOT BE ABLE TO ACTIVATE DIAL-ON-DEMAND. YOU MUST ESTABLISH AN ENTERNET CONNECTION BETWEEN YOUR CONNECTION SHARING COMPUTER AND YOUR SERVICE PROVIDER MANUALLY BEFORE THE OTHER COMPUTERS ON YOUR NETWORK WILL BE ABLE TO ACCESS THE INTERNET. FOR MORE INFORMATION ABOUT DIAL-ON-DEMAND, SEE THE *ENTERNET DIAL-ON-DEMAND* SECTION.

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## The EnterNet Advanced Panel

The EnterNet **Advanced** panel contains a comprehensive suite of diagnostics tools to aid the advanced user and the service desk technician to understand better the IP configuration and overall behavior of EnterNet and its relationship with the network to which it is attached.

You can open the **Advanced** panel when an EnterNet profile is running by right-clicking on the EnterNet **system tray** icon. Selecting **Advanced** from the resulting menu displays the **Advanced** panel, which contains the following seven tabs:

- Diagnostics
- Route Table
- IP
- Drivers
- Messages
- Tap Information
- Packet Log

---

**NOTE:** UNLESS AN ACTIVE PPPoE SESSION EXISTS, SOME TABS MAY NOT BE PRESENT. THE **PACKET LOG** TAB IS ONLY PRESENT IF THE **PACKET LOGGING** OPTION ON THE **APPLICATION SETTINGS** PANEL IS ENABLED.

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## Advanced Diagnostics Panel

You can open the **Advanced Diagnostics** panel by selecting the **Diagnostics** tab of the **Advanced** panel. The **Advanced Diagnostics** panel is used to test the response time of your network name servers. The results of this test are called network health.

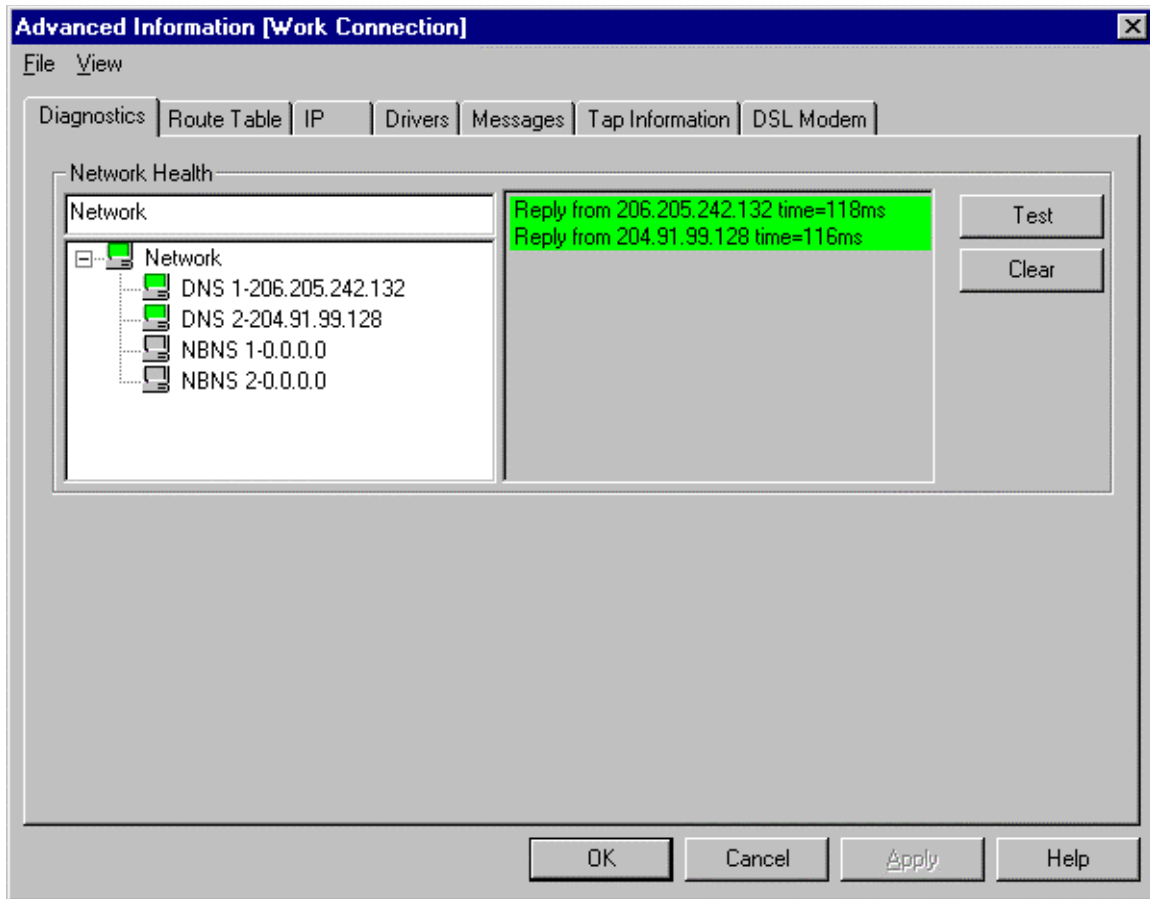
Locate the expandable, Windows Explorer-like tree, with **Network** at the root of the tree, in the left-hand pane. Each branch of this tree represents a different name server identified to EnterNet while negotiating the current PPPoE session with your service provider's network. Two kinds of name servers can appear in the tree: DNS, and NBNS (also known as WINS).

When you run the **Advanced Diagnostics** panel, EnterNet pings each of the servers in the tree. If the server responds to the ping quickly, the name server will be represented by a green icon. If the server responds slowly, it will be represented by a yellow icon. If it does not respond at all, it will be represented by a red icon.

The color of the root icon, labeled Network, reflects the overall health – or responsiveness – of the name servers known to EnterNet. If all known name servers are presently responding quickly, the Network icon will be represented in green. If one or more of the name servers is responding slowly, the Network icon will be represented in yellow. If all of the name servers are not responding at all, the Network icon will be represented in red. The color of the Network icon is also represented in real-time on the horizontal bar at the base of the EnterNet **system tray** icon (see *System Tray*).

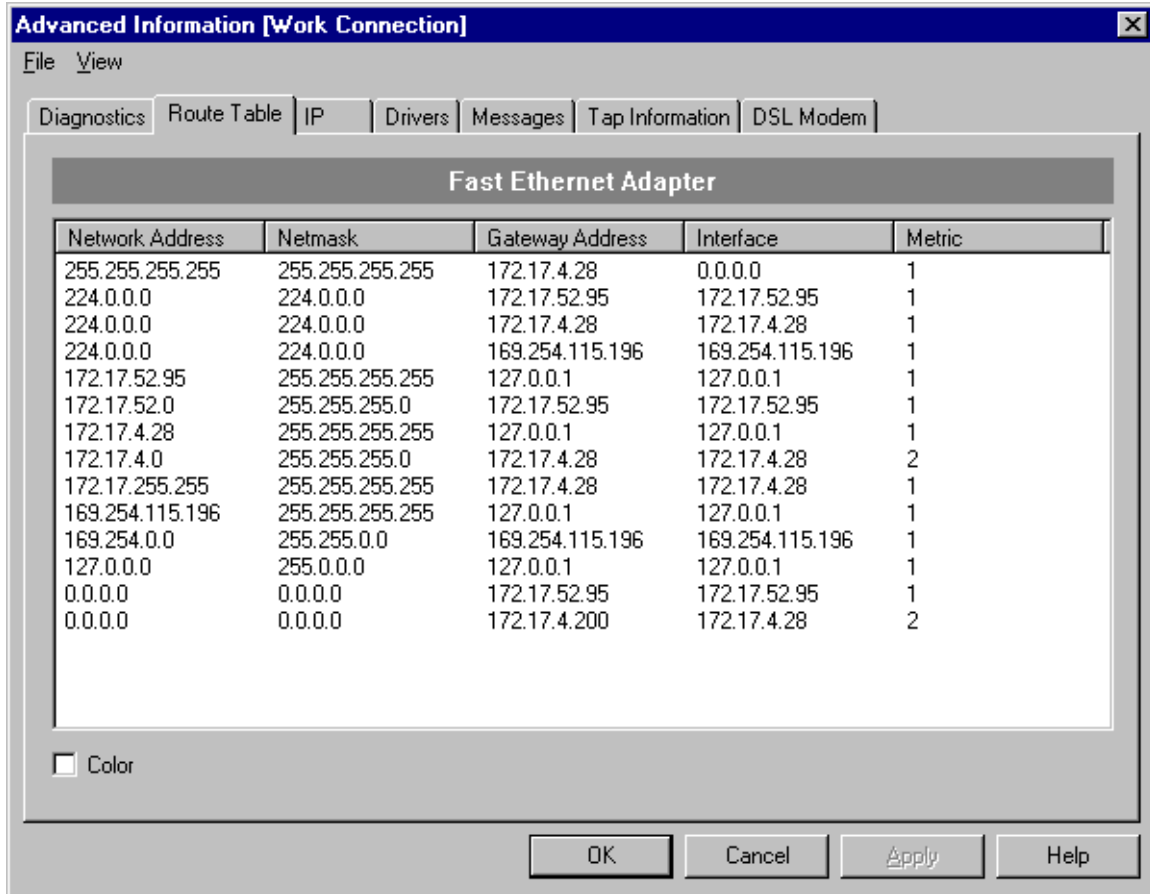
To perform independent ping tests of each name server:

1. Click the name server you want to test in the left pane, then the **Test** button to the right of the right pane. Test results will appear in the right pane and will be represented with the color that correlates to the responsiveness of the server being tested.
2. Click the **Clear** button to clear the right pane in preparation for the next test.
3. Select the **Network** icon from the left pane and click the **Test** button to test each name server in the tree.



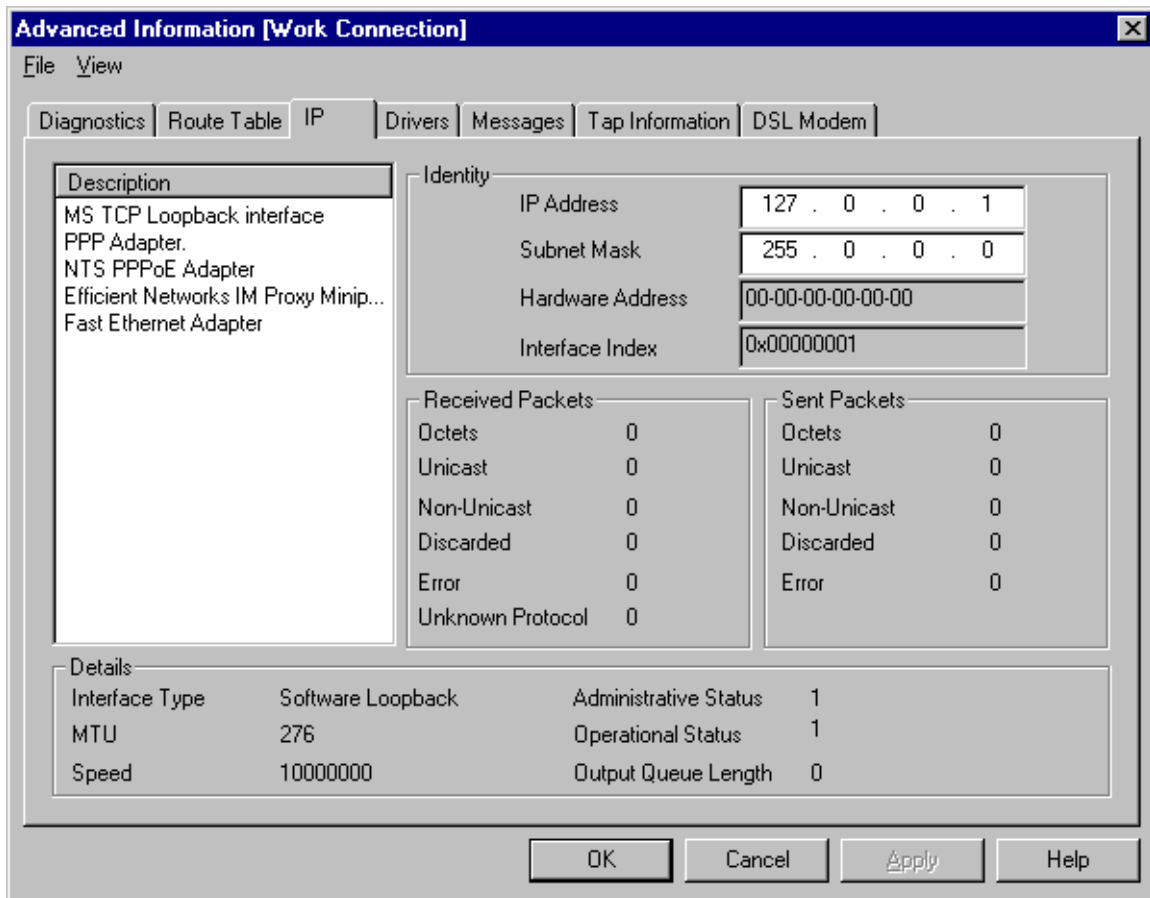
## Advanced Route Table Panel

You can open the **Advanced Route Table** panel by selecting the **Route Table** tab of the **Advanced** panel. The **Advanced Route Table** panel displays a scrollable list of every IP address configured for your current session.



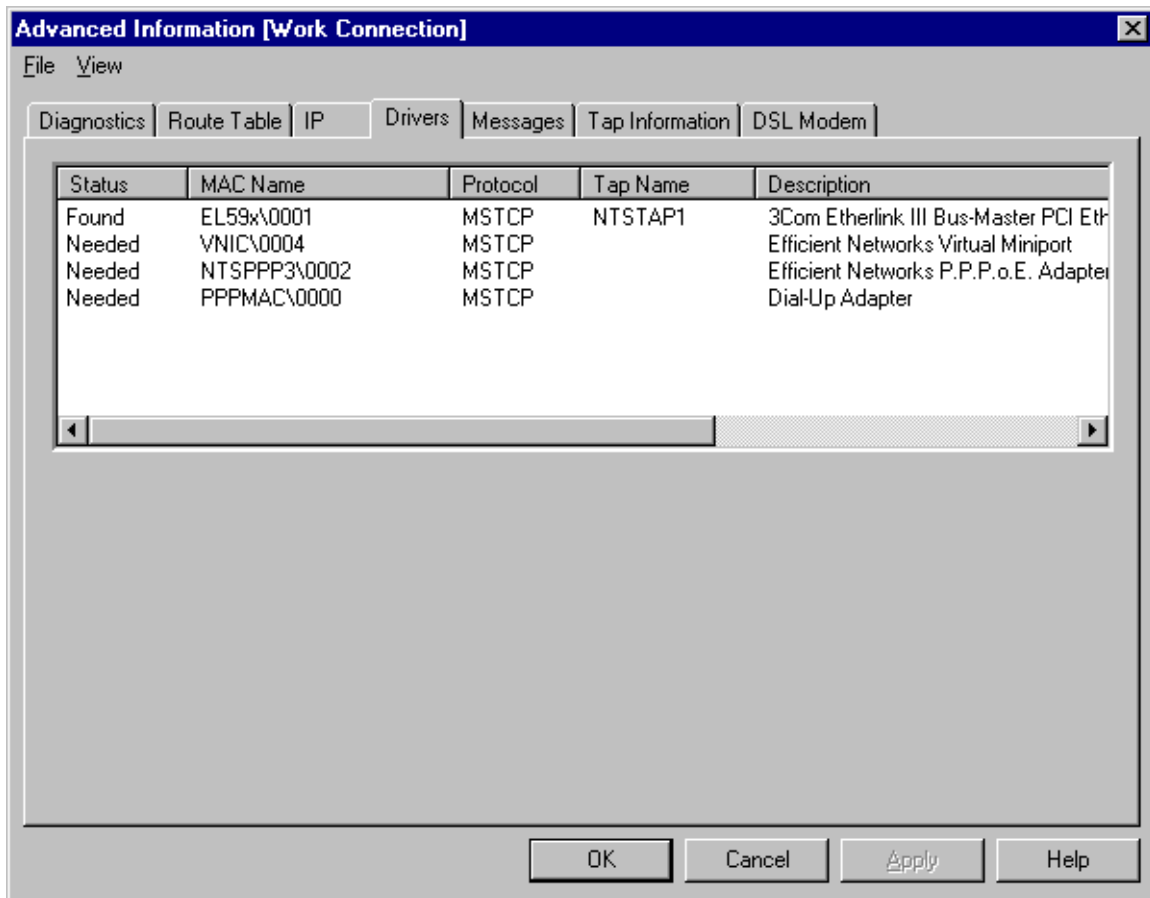
## Advanced IP Panel

You can open the **Advanced IP panel** by selecting the **Route Table tab** from the **Advanced** panel. The **Advanced IP** panel provides a detailed, packet-level look into the Internet Protocol (IP) statistics pertinent to the current session. This information is useful to support personnel attempting to resolve problems with your system, or with their network. It is beyond the scope of this User Guide to provide detailed information about this panel.



## Advanced Drivers Panel

You can open the **Advanced Drivers** panel by selecting the **Drivers** tab from the **Advanced** panel. The **Advanced Drivers** panel displays a list of the adapters configured for your session, as well as their protocol, MAC and tap names, and current status.



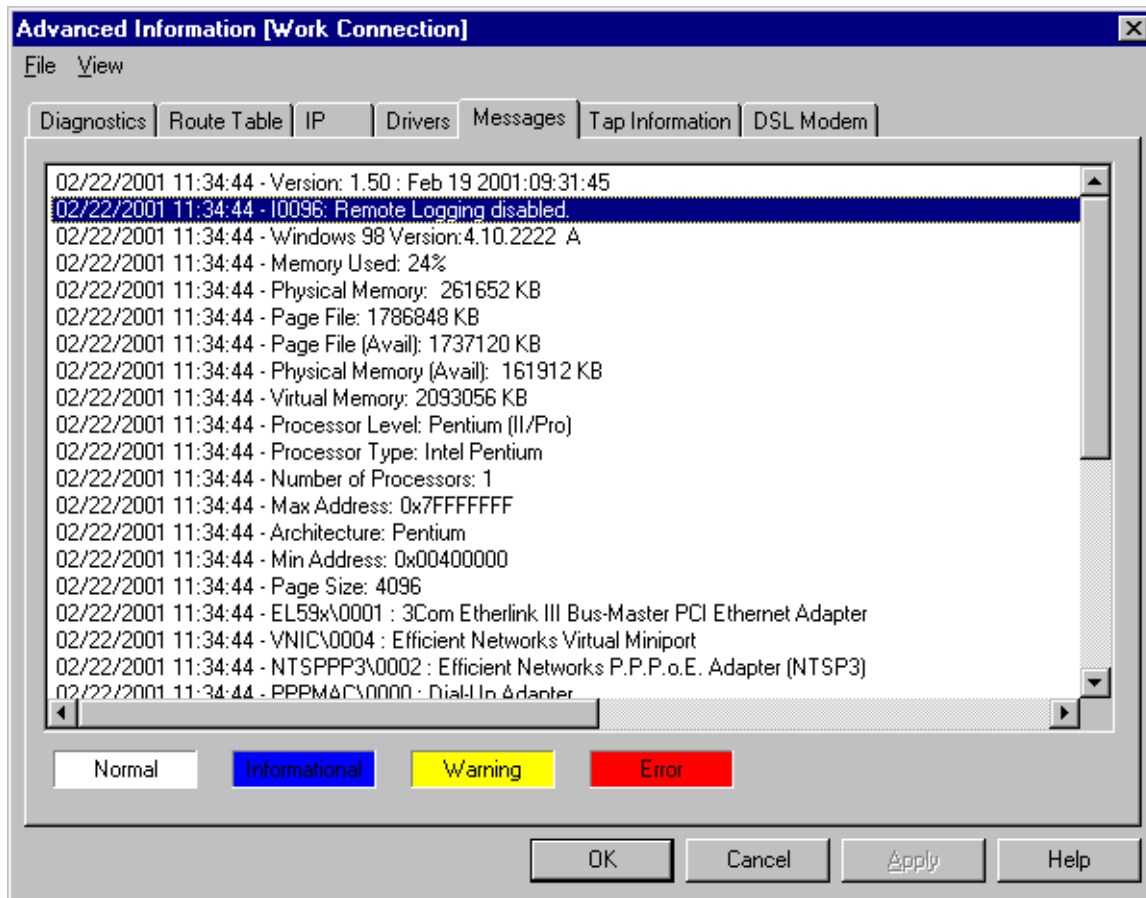
## Advanced Messages Panel

You can open the **Advanced Messages** panel by selecting the **Messages** tab from the **Advanced** panel. The **Advanced Messages** panel displays information that can be used to trace protocol errors with the server should any errors occur during your session.

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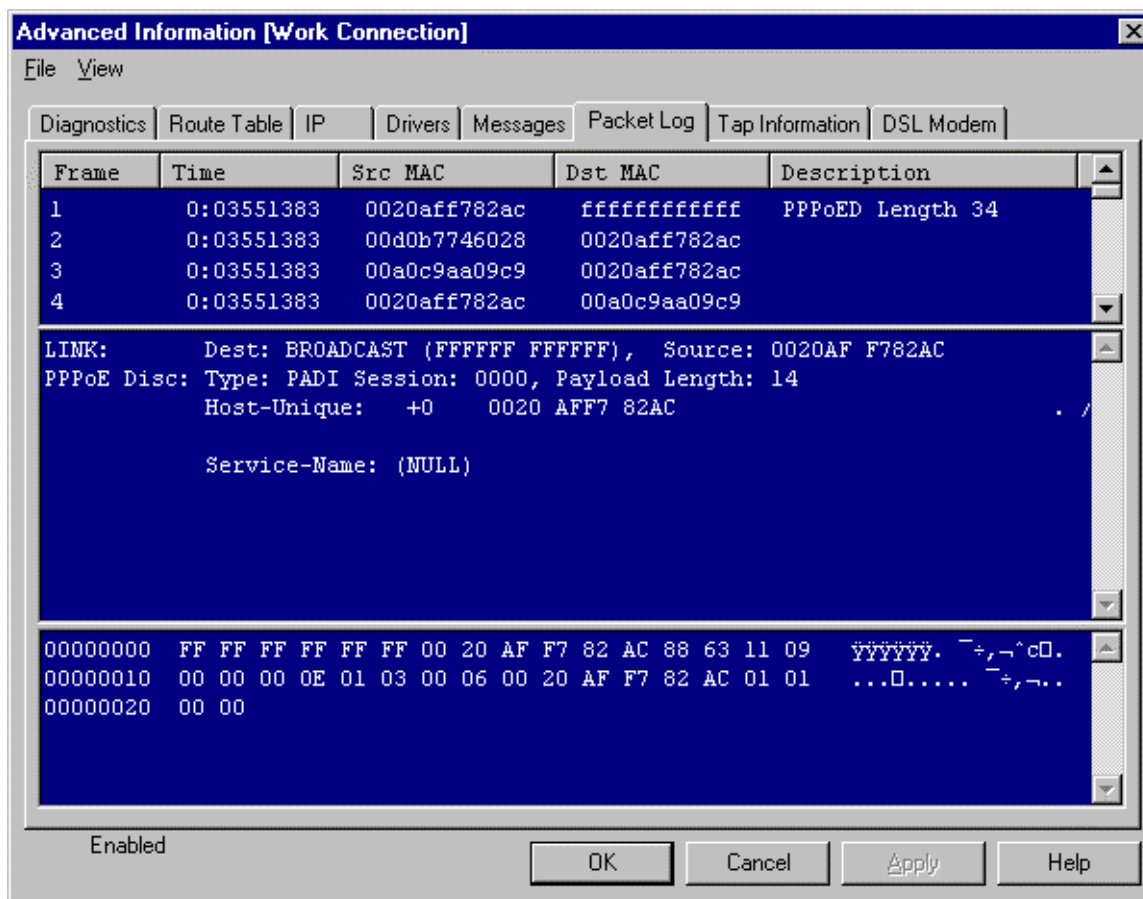
**NOTE:** THE **ADVANCED MESSAGES** PANEL IS A DEVELOPMENT TOOL THAT MAY REPORT ERRORS THAT ARE OF INFORMATIONAL VALUE ONLY.

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## Advanced Packet Log Panel

You can open the **Advanced Packet Log** panel by selecting the **Packet Log** tab of the **Advanced** panel. The **Advanced Packet Log** panel can be used to help technical support personnel identify problems that occur during the user login process. The tool captures, stores and displays the Ethernet packets (also known as *frames*) that are sent and received during the initial moments of a user's attempt to connect to their ISP. The captured packets are stored in a non-scrolling buffer. Once the buffer is full, no new packets will be captured or displayed. The buffer size is user definable via a drop-down list box on the **Packet Log Configuration** panel. The contents of the buffer are cleared when the EnterNet application is closed. The buffer is also cleared when the **Connect** button of the **Connection** panel is pressed. The **Packet Log** panel is not displayed unless the **Packet Logging** option is enabled on the **Application Settings** panel. Because it causes EnterNet to run slower than normal, **Packet Logging** should only be enabled if necessary.



### The Packet Log Displays

The **Packet Log** panel is divided into three vertically aligned displays. The **Summary** display provides a single row of general information about each packet. The **Details** display provides a multi-line, detailed analysis of the packet that is currently selected in the **Summary** display. The **Hex Dump** display shows the hexadecimal value of each byte within the packet that is selected in the **Summary** display.

### The Summary Display

The **Summary** display is divided into five columns of information:

- **Frame:** The Ethernet frame number. The first packet seen (sent or received) after the **Connect** button is clicked is designated as Frame 00000001. Each subsequent packet is incremented by 1.
- **Time:** The number of milliseconds that have lapsed since Windows was last started and the time the packet was seen by the packet log utility.
- **Src MAC Addr:** The hardware (Mac) address of the device that sent the packet log utility.
- **Dest MAC Addr:** The MAC address of the device to which the packet was sent.
- **Description:** The packet type (TCP, ARP, UDP, ICMP, etc.) The length of the packet (in bytes) is also provided, where appropriate.

Each column has a rectangular title bar that reflects the column name. Clicking on the title bar sorts the packets in ascending order, based on the value presented in the selected column. Clicking the title bar a second time sorts the data in descending order.

### The Details Display

The **Details** display provides a functional analysis of each packet payload. It contains a plain English description of embedded protocols and their purpose (for example, PPPoE PADO, PAP authenticate request, LCP echo reply, etc.), and varying levels of additional detail, as appropriate. When the packet contains TCP data, the data is presented in hexadecimal format. The information presented in the **Details** display is an analysis of the packet that is currently selected in the **Summary** display.



### The Hex Dump Display

The **Hex Dump** display provides three columns of information about the packet that is currently selected in the **Summary** display. The data provided in each column is directly related to the data provided on the corresponding row in each of the other two columns.

The left-most column provides the hexadecimal offset of the first byte that is displayed in the center column. The first byte in a packet has hexadecimal offset of 00000000. The sixteenth byte in a packet has a hexadecimal offset of 0000000F. The seventeenth byte, which appears as the first hexadecimal value on the second row of the center column, has a hexadecimal offset of 00000010.

The center column provides a hexadecimal representation of each byte in the packet. Each row displays 16 bytes.

The right-most column provides the ASCII representation of the data in the center column.

### Changing the Appearance of Displays

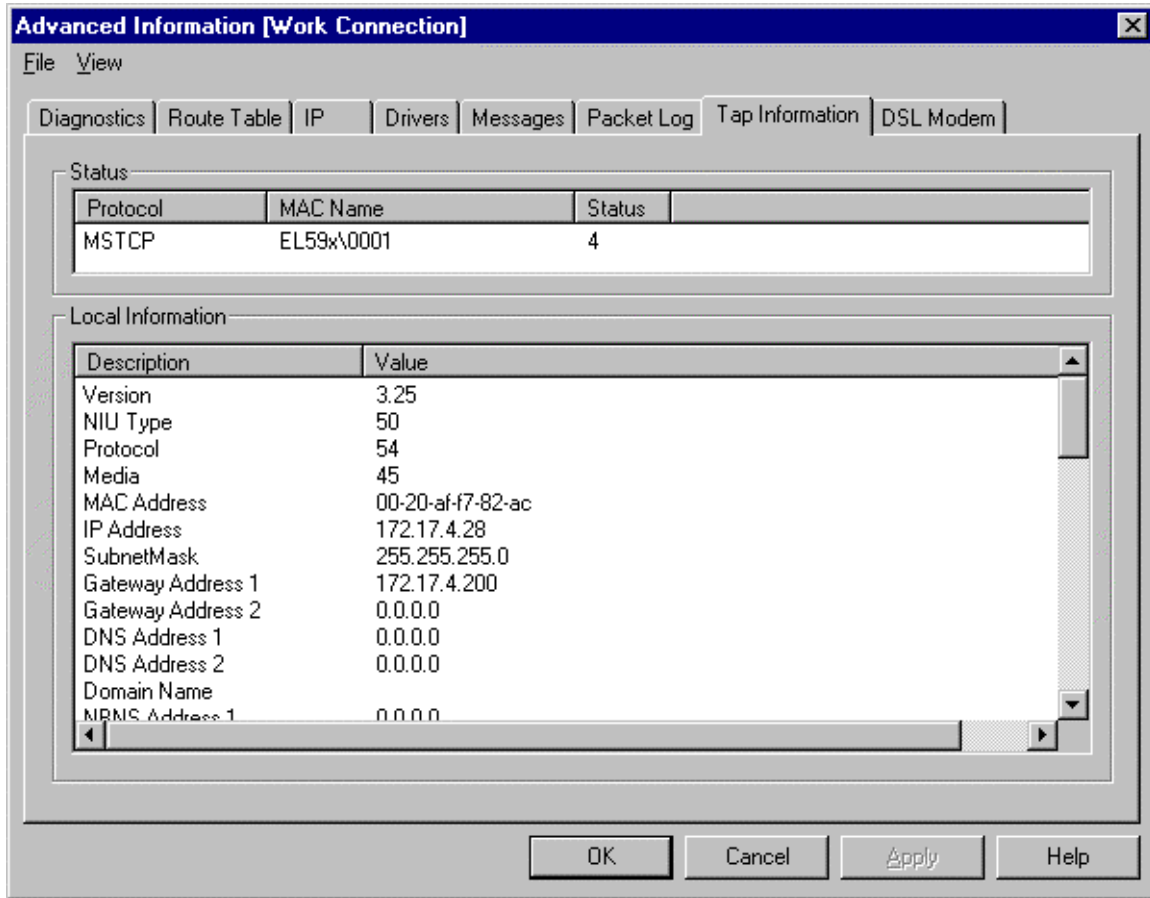
The appearance of the three displays can be customized to suit the needs of the user. By double-clicking anywhere on the **Summary** display, the user can run the **Packet Log Configuration** utility. This utility allows you to customize--for each display--the foreground and background color, the font face, and the font size. You can cause EnterNet to display a warning if Packet Logging is active when you try to connect to your service provider.

### Changing the Packet Log Buffer Size

You can select the size of the packet log buffer in predefined values ranging from 15k bytes to 1024k bytes. To view or change the value, run the **Packet Log Configuration** utility by double-clicking anywhere in the Summary display. The Log Buffer section of the utility contains a drop-down list box from which you can select the desired buffer size.

## Advanced Tap Information Tab

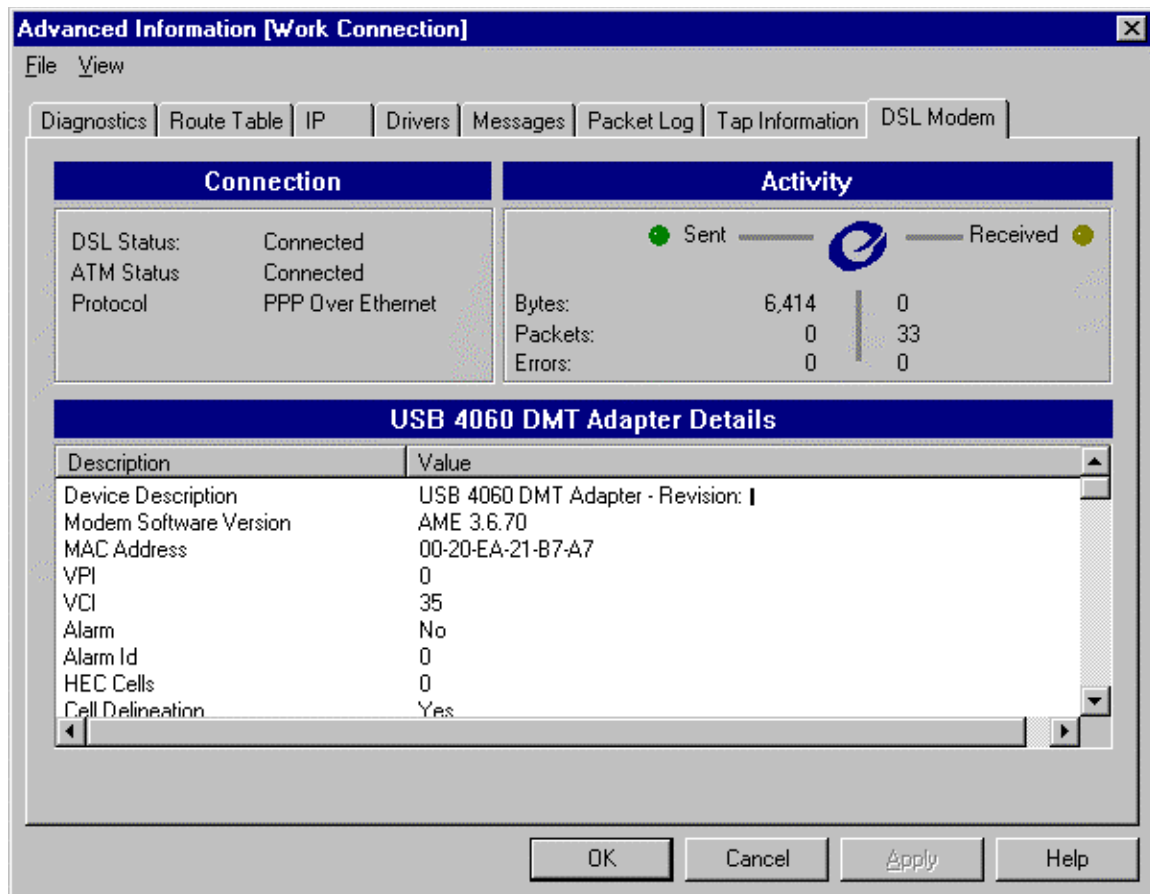
You can open the **Advanced Tap Information** panel by selecting the **Tap Information** tab from the **Advanced** menu. Tap information can be useful to support personnel in the event of diagnostics problems during your session.



## Advanced DSL Modem Panel

You can open the **Advanced DSL Modem** panel by selecting the **DSL Modem** tab from the **Advanced** menu. The **Advanced DSL Modem** panel is a tool for monitoring the state of your DSL Modem connection.

1. To check connection statistics such as bytes and packets sent and received, look in the **Activity** section, located in the upper-right hand corner of the panel.
2. To check the physical state or protocol of your connection, look in the **Connection** section, located in the upper-right hand corner of the panel.
3. To find various other specifics, look in the **Adapter Details** section, in the bottom portion of the panel.
4. To check the state of your modem connection, look in the **Line States** section, which will appear as a yellow line at the bottom of the panel. If all lines are functioning, the **Line States** section will not appear, and that portion of the panel will be gray.



## Troubleshooting EnterNet

### Installation Errors

The most commonly occurring Set-Up error is "Unable to Connect to Server." In this case, you may have to uninstall EnterNet to verify the connectivity of your TCP/IP stack over the Ethernet.

### Connection Errors

Below is a list of the error messages you might receive during connection establishment, along with an accompanying explanation:

#### PPP Negotiate Timeout

- Ethernet cable or modem not responding.
- IP Addresses not exchanged from Server.

#### Authentication Failed

- User Name or Password not configured at server or enabled for dial-in access.
- When connecting into NT RAS, include NT Domain Name in front of the password.

#### Connection Cancelled by User

- Cancel button pressed while establishing a connection.

### Help Screens Don't Match Program

EnterNet is a highly customizable program marketed primarily to Internet Service Providers (ISPs) who in turn re-distribute it to their end-user customers. It is possible that this Help utility will display information about features that your EnterNet provider elected not to activate. Some features that can be discussed in this Help utility may not be present or active in the software as delivered to you.

### EnterNet not Displaying Discovered Server/Services

In order for the Connection Manager to display icons for discovered Servers and Services, the **Show advertised services in the main folder** check-box must be selected in the Application Settings panel. If this selection is already made and Servers or Services are still not being displayed, click the Refresh button on the Connection Manager Toolbar.

## EnterNet 300 for Windows User Guide

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**NOTE:** YOUR COMPUTER'S NETWORK INTERFACE CARD MUST BE INSTALLED, PROPERLY CONFIGURED FOR USE BY ENTERNET, AND CONNECTED TO A LIVE PPPoE NETWORK, AND ENTERNET MUST BE FULLY INSTALLED AND CONFIGURED, BEFORE SERVER AND SERVICE DISCOVERY WILL OCCUR.

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**NOTE:** EVERY FUNCTIONAL PPPoE NETWORK SHOULD RETURN AT LEAST ONE SERVER WHEN THE REFRESH BUTTON IS CLICKED. HOWEVER, SERVICES ARE NOT NECESSARILY PRESENT ON ANY PPPoE NETWORK AND YOU SHOULD NOT BE CONCERNED IF NO ADVERTISED SERVICES APPEAR.

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### Uninstalling EnterNet

To uninstall EnterNet, click `Start>Programs>Efficient Networks>EnterNet>Uninstall EnterNet` and follow the on-screen prompts. Note that EnterNet must not be running at the time of removal. A system restart will be necessary after EnterNet has been removed from your system.

During the un-installation process, the uninstaller may present the **Remove Shared File?** panel. This panel is presented to allow you to decide if you want the uninstaller to remove a special file--typically a Dynamic Link Library, or DLL--that was installed during the EnterNet installation process. DLLs are special because they are usable by multiple programs. When a program wants to use a .DLL, it is supposed to register with Windows its desire to do so. When the uninstaller presents the **Remove Shared File?** panel, it is telling you that no other programs have registered a desire to use a particular special file that was installed by EnterNet, and it is asking your permission to remove it. It is usually safe to answer **Yes to All**, but it is also safe to answer **No to All**. If you answer **Yes to All**, and there is an application using the .DLL that did not register for it, that application may not work correctly. (Of course, if the application did not register to use the DLL in the first place, as it is supposed to do in the Windows environment, perhaps your deleting a shared DLL is not the biggest problem this application has.)

If you answer **No to All**, EnterNet will leave files on your computer that are likely not being used by any other programs. Fortunately, DLL files are typically tiny and take up a small amount of hard drive space.

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**NOTE:** ON THE WINDOWS 2000 PLATFORM, NO RESTART IS NECESSARY AFTER UNINSTALLING ENTERNET 300. HOWEVER, CERTAIN FILES WILL NOT BE DELETED FROM YOUR SYSTEM UNTIL A RESTART HAS TAKEN PLACE.

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**NOTE:** IF UNINSTALL SHOULD FAIL, YOU CAN UNINSTALL ENTERNET BY LOADING THE ORIGINAL ENTERNET 300 CD IN YOUR CD DRIVE, AND RUNNING THE REMOVEENTERNET.BAT FILE.

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