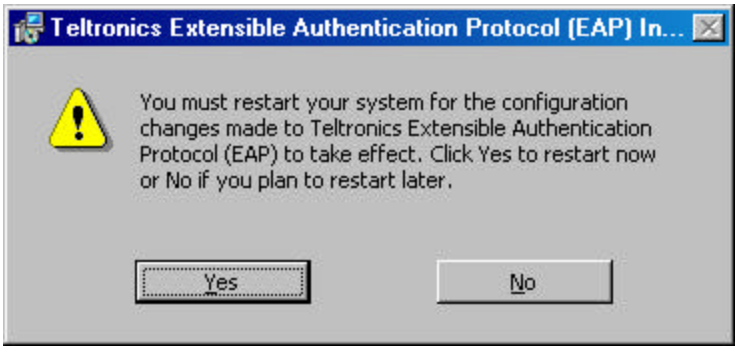
Extensible Authentication Protocol (EAP) Overview
An Extensible Authentication Protocol (EAP) module available from Teltronics facilitates a PPP login to a Remote Agent that is configured for Enhanced Authentication. The Teltronics EAP allows a user to connect to a remote agent device via a modem. The module displays the Challenge generated by the Remote Agent to the user. It also provides the user the ability to enter the Response generated by his or her handheld Digipass Token. After a successful authentication, the user can then access other devices on the same network, provided the user has security rights to those devices. The Teltronics EAP module is designed for use on any Windows 2000 and XP workstation through a PPP configuration.

The EAP module is free of charge to those who have Teltronics Remote Agents using Enhanced Authentication. The module and accompanying installation files may be downloaded in zip format from the Teltronics website at http://www.teltronics.com/products_services/ism/download.asp.

Installation
Before attempting a PPP connection to a remote agent device using Enhanced Authentication Protocol, you must install the Teltronics EAP module on your PC. Please note that the initial version of Teltronics EAP (version 1.0) can be installed only in English. A localized version will be produced in the near future. The following files are contained in the EAP zip file.

Teltronics Extensible Authentication Protocol (EAP).msi
TeltronicsEAP.dll
Instmsia.exe
Instmsiw.exe
Setup.exe
Setup.ini

Extract the files to your PC then run the setup.exe file as you would any other executable program and follow the directions displayed in the Install Wizard. When installation is complete, you must restart your PC for the installed components to take effect.

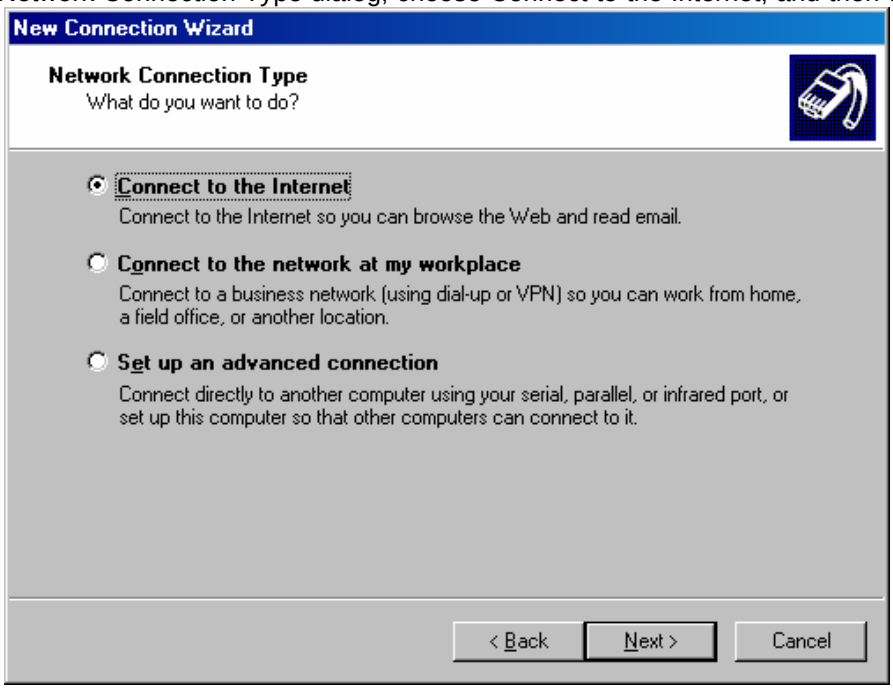


After the reboot, you must configure PPP network connection parameters using the New Connection Wizard, which is launched from the Network Configurations folder.

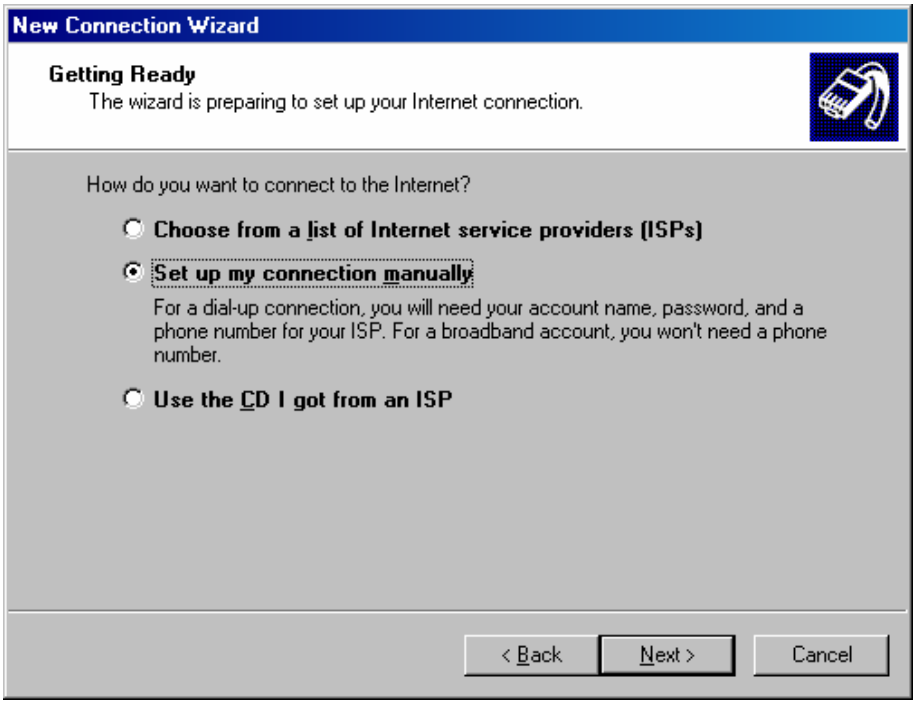
Configuration
To configure a dial-up connection using EAP follow the steps for configuring a default PPP connection. The only change required is on the Security tab where the default authentication protocols need to be substituted with Teltronics EAP.

- From your Start menu, select Control Panel > Network Connections.
- Under Network Tasks, select Create a new connection. Your system will display the New Connection Wizard dialog. If it does not, check with your system administrator to determine how to start the New Connection Wizard.
- At the Welcome dialog, click Next.

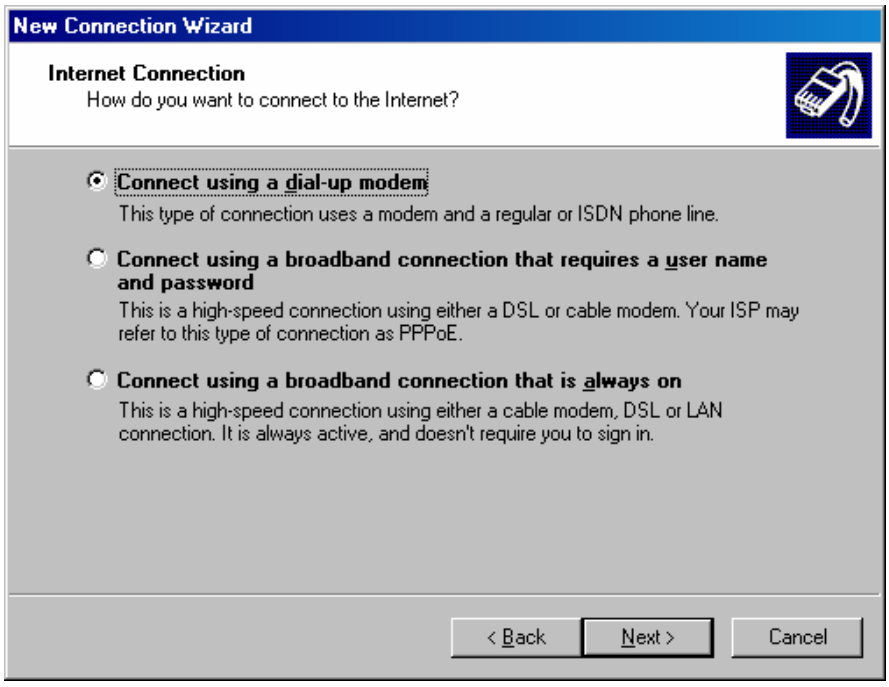
- At the Network Connection Type dialog, choose Connect to the Internet, and then click Enter.



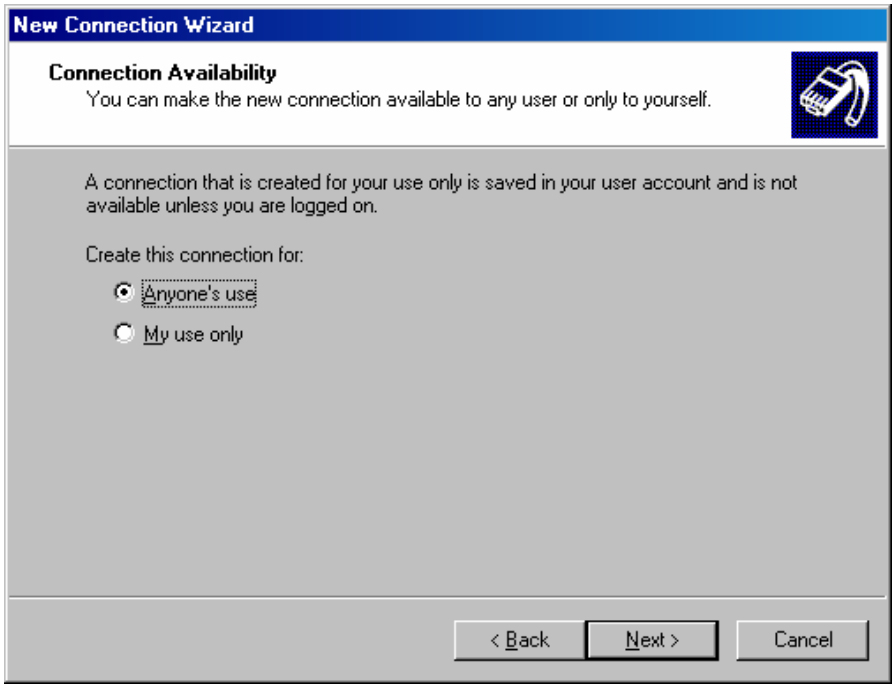
- At the Getting Ready dialog, choose Set up my connection manually, and then click Enter.



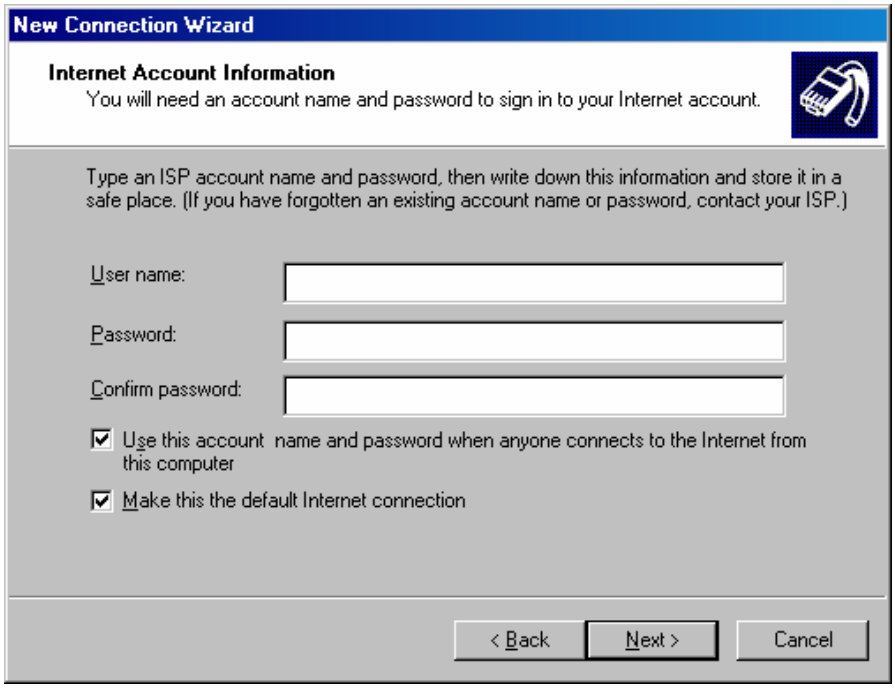
- At the Internet Connection dialog, choose Connect using a dial-up modem, and then click Enter.



- At the Connection Name dialog, type the name of your ISP (for example, EAPea) in the ISP Name field, and then click Enter.
- At the Phone Number Dial dialog, type telephone number of you remote agent's modem in the Phone number field, and then click Enter.
- At the Connection Availability dialog, choose Anyone's use if security is not an issue; otherwise, choose My use only, and then click Enter.



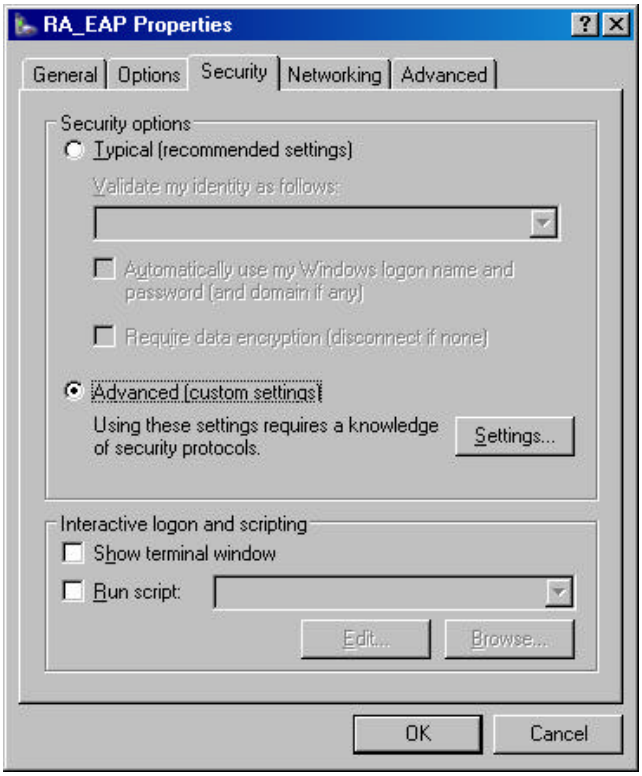
- At the Internet Account Information dialog, click Enter. You do not need to enter anything is this dialog.

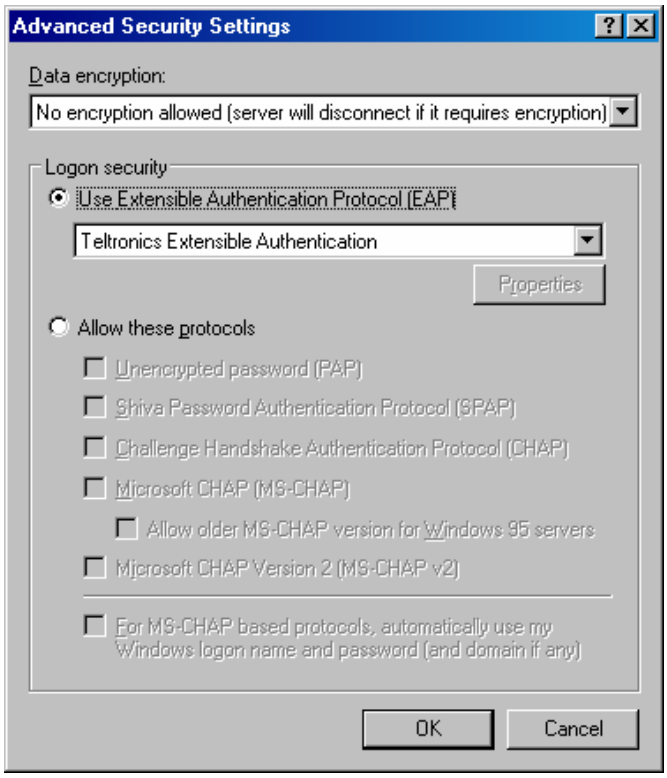


- At the Completing the New Connection Wizard dialog, click Enter. You are now ready to select the properties for your newly created connection.

Setting the PPP Properties

- Open the network connections screen by right clicking on the network icon in the task tray or using Start→ Control Panel → Network Connections.
- Right-click the dial-up icon for the connection you just created and select Properties from the list.
- Click the General tab and confirm the telephone number of the remote agent's modem in the Phone Number field.
- Move to the Security tab. Select the Advanced (custom settings) Radio Button.
- Select the Settings Button next to the Advanced (custom settings) radio button. The Advanced Security Settings Dialog is invoked where the name of the module is to be supplied.

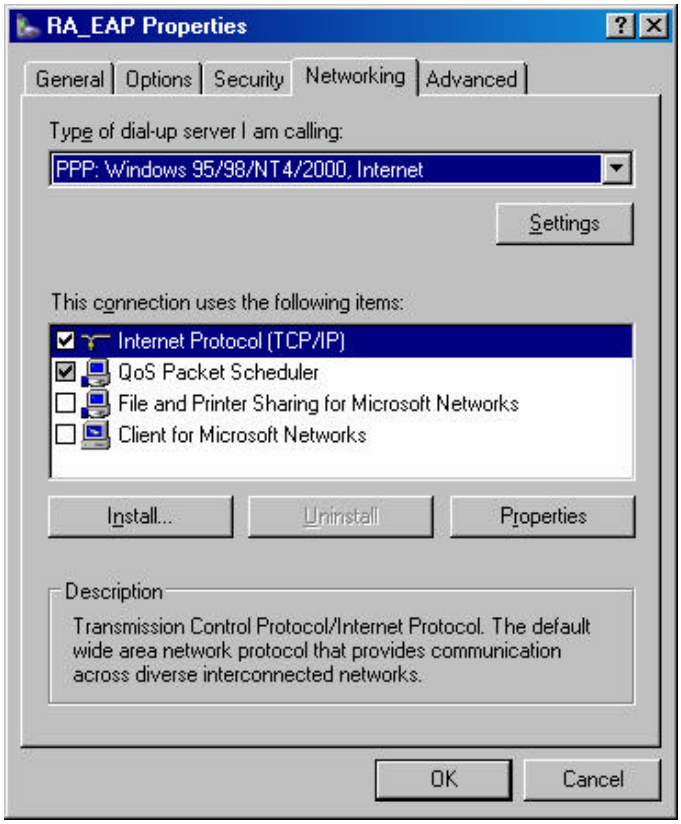




- Select No encryption allowed from the Data encryption drop list.
- Choose Use Extensible Authentication Protocol and select Teltronics Extensible Authentication, and then click OK.

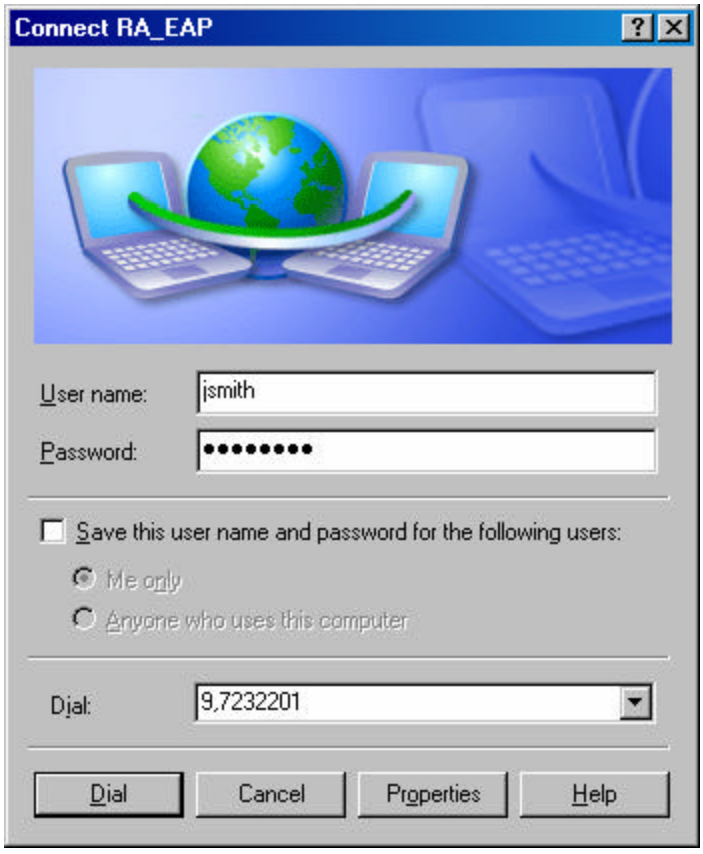
- Click the Networking tab and choose PPP: Windows 95/98/NT4/2000, Internet from the Type of dial-up server drop list.
- Check the Internet Protocol (TCP/IP) box, and then click the Properties button to display the Internet Protocol Properties dialog.

- Choose Use the following IP address and type the address in the IP field. Check with your system administrator if you are not sure what IP address to use.
- Click OK to save your properties. You are now ready to connect to the remote agent.



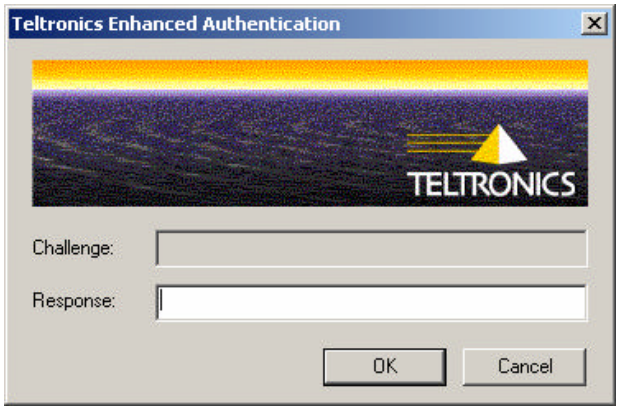
Connecting

- From the Network Connections window, double-click the dial-up icon for the connection you created and the system will open the Connect dialog. The initial PPP dialog for Teltronics EAP looks similar to the following:



Note that your User Name must exist in the remote agent you plan to call. Otherwise, you will not be allowed to authenticate.

- Select the Dial option to establish your connection. The remote agent sends a Challenge back through the EAP module.
- Enter the Challenge into your handheld token (after logging into the token) and type the token Response into the Response field. Click OK.
- Your authentication process is complete and you have access to the remote agent and any network devices for which your user has permissions.
- If there is no response to the Challenge, the dialog closes after 60 seconds.



Note: After downloading an application or operating system to a remote agent, the remote agent is in a default state. You cannot access the remote agent via PPP while it is in the default state. You must download the database using another connection method.