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.

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

lew Connection Wizard
Network Connection Type Image: Connection Type What do you want to do? Image: Connection Type
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
< <u>B</u> ack <u>N</u> ext > Cancel

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

New Connection Wizard
Getting Ready The wizard is preparing to set up your Internet connection.
How do you want to connect to the Internet?
O Choose from a list of Internet service providers (ISPs)
Set up my connection manually
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.
O Use the <u>C</u> D I got from an ISP
< <u>B</u> ack <u>N</u> ext > Cancel

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

New Connection Wizard
Internet Connection How do you want to connect to the Internet?
 Connect using a dial-up modem This type of connection uses a modem and a regular or ISDN phone line. Connect using a broadband connection that requires a user name and password This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE. Connect using a broadband connection that is always on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.
< <u>B</u> ack <u>N</u> ext > Cancel

- 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.

New Connection Wizard
Connection Availability You can make the new connection available to any user or only to yourself.
A connection that is created for your use only is saved in your user account and is not available unless you are logged on.
Create this connection for:
 Anyone's use
O <u>M</u> y use only
< <u>B</u> ack <u>N</u> ext > Cancel

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

New Connection Wizard
Internet Account Information You will need an account name and password to sign in to your Internet account.
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)
User name:
Password:
Confirm password:
Use this account name and password when anyone connects to the Internet from this computer
Make this the default Internet connection
<u> ≺ B</u> ack <u>N</u> ext > Cancel

• 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.

RA_EAP Properties	?
General Options Security Networking	Advanced
Security options	
C <u>Typical</u> (recommended settings)	
⊻alidate my identity as follows:	
	T
Automatically use my Windows log	gon name and
baseword (and domain in any)	
🔲 Require data encryption (disconne	ect if none)
Advanced (custom settings)	
Using these settings requires a knowle of security protocols.	edge <u>S</u> ettings
Interactive logon and scripting	
Show terminal window	
Bun script:	*
Edit	Browse
	OK Cancel

February 4, 2005



- 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.

- 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.

RA_EAP Properties	? ×
General Options Security Networking Advanced	22
Typ <u>e</u> of dial-up server I am calling:	
PPP: Windows 95/98/NT4/2000, Internet	-
<u>S</u> ettings	
This connection uses the following items:	
 ✓ Treternet Protocol (TCP/IP) ✓ Gos Packet Scheduler ☐ ☐ File and Printer Sharing for Microsoft Networks ☐ ☐ Client for Microsoft Networks 	
Install Uninstall Properties	
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
OK Cance	el

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:

Connect RA_	AP ?X
<u>U</u> ser name: Password:	jsmith
Save this Me on	user name and password for the following users:
Djal:	9,7232201
<u>D</u> ial	Cancel Properties Help

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.

eltronics Enl	hanced Authentication	×
Challenge:		
Response:	, 	
	OK Cancel	

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.