

POW-PAK Installation and Configuration

Windows 2003 Server

(updated 3/11/07)

This guide will walk you through the installation of POW-PAK on a Windows 2003 server. NOTE: Users can be authenticated by either POW-PAK's built-in username/password system or by tapping into Active Directory or local machine accounts. It is recommended that you use POW-PAK's built-in authentication system for several reasons:

- It is easier to configure.
- It gives the administrator web-based management of users.
- It gives users the ability to change their passwords.
- It allows the administrator to add new users to POW-PAK without having to add them to Active Directory or the local machine.

This guide is designed to configure the program to use POW-PAK's built-in authentication. If you need to use Active Directory or local accounts instead, please contact CurtsWorks for those instructions.

Installation Steps

The installation and configuration of POW-PAK will be accomplished through several steps:

- 1) Install "Active Perl"
- 2) IIS Settings
- 3) Install "POW-PAK"
- 4) Set permissions
- 5) Move an important folder and file
- 6) Edit "district.data" file
- 7) Log in as admin
- 8) Contact CurtsWorks

Step 1: Install Active Perl

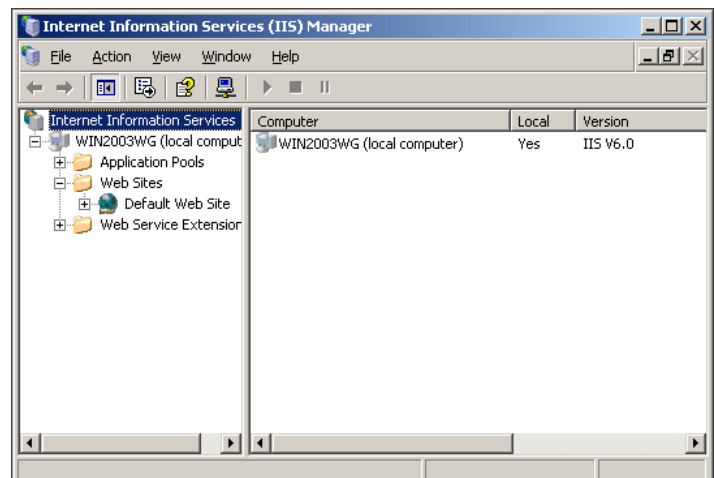
POW-PAK is a program that is written in Perl, which is a free programming language. If Perl is not installed on your server you will need to download and install it

- 1) Go to: <http://www.activestate.com/Products/Download/Download.plex?id=ActivePerl>
- 2) Download the Windows MSI package.
- 3) When done, locate the file and double-click on it to install.
- 4) Choose the default options when installing.

Step 2: IIS Settings

In this section you will identify some needed system settings and make a few changes in "IIS" (the "Internet Information Services (IIS) Manager"). First, you need to open IIS and locate the "Default Web Site":

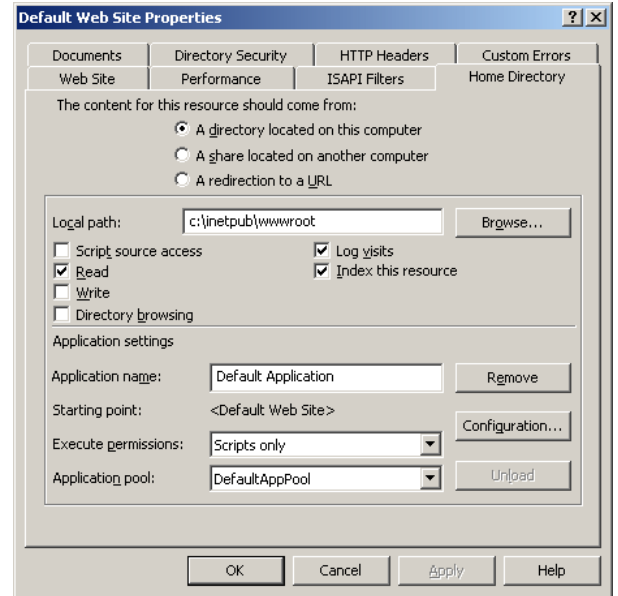
- 1) Click "Start"
- 2) Then click "All Programs"
- 3) Then click "Administrative Tools"
- 4) Then click "Internet Information Services (IIS) Manager".



- 5) With IIS open, click the plus sign to expand your **Web Server**.
- 6) Now click the plus sign to expand the **“Web Sites”** folder.
- 7) Inside there you will find your default web site (possibly named **“Default Web Site”**).
- 8) Right-click on the default web site and choose **“Properties”**.

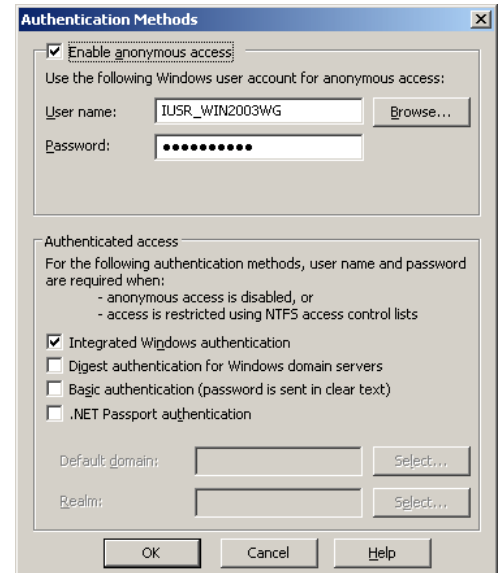
Now identify the **“Home Directory”**:

- 1) With the **“Properties”** window open, click on the **“Home Directory”** tab.
- 2) You will find your home directory in the **“Local Path:”** box.
- 3) In this example the **“Home Directory”** is **“c:\inetpub\wwwroot”**.
- 4) Take note of your **“Home Directory”**:



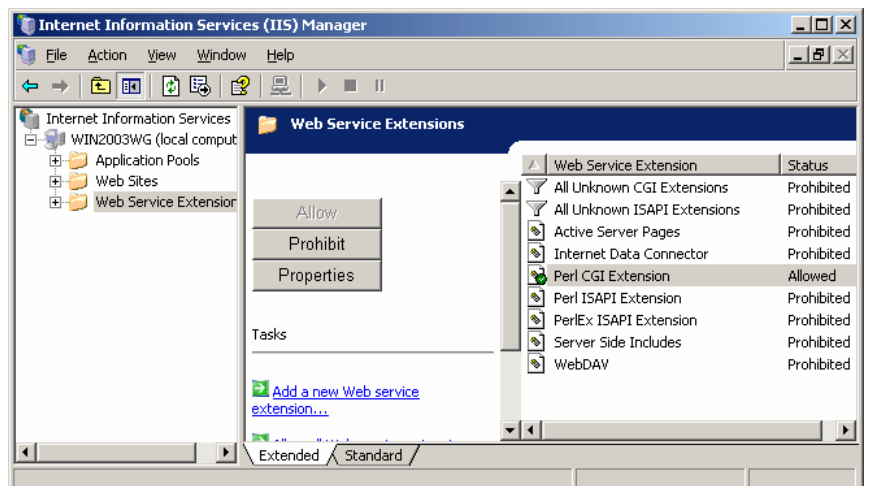
Now continue by identifying the **“Internet Guest Account”** name:

- 1) Still on the **“Properties”** window, click on the **“Directory Security”** tab
 - 2) Once there, click **“Edit...”** in the **“Authentication and Access Control”** section.
 - 3) In the **“User name”** box you will find the name of the **“Internet Guest Account”**.
 - 4) Typically this account should just be **“IUSR_”** followed by the name of your web server.
 - 5) In this example the **“Internet Guest Account”** is **“IUSR_WIN2003WG”**.
 - 6) Take note of your **“Internet Guest Account”** name:
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- 7) Click **“OK”** to exit from the **“Properties”** window.



Next you need to make sure Perl scripts have been enabled (which by default they may not be). With **IIS** still open, do the following:

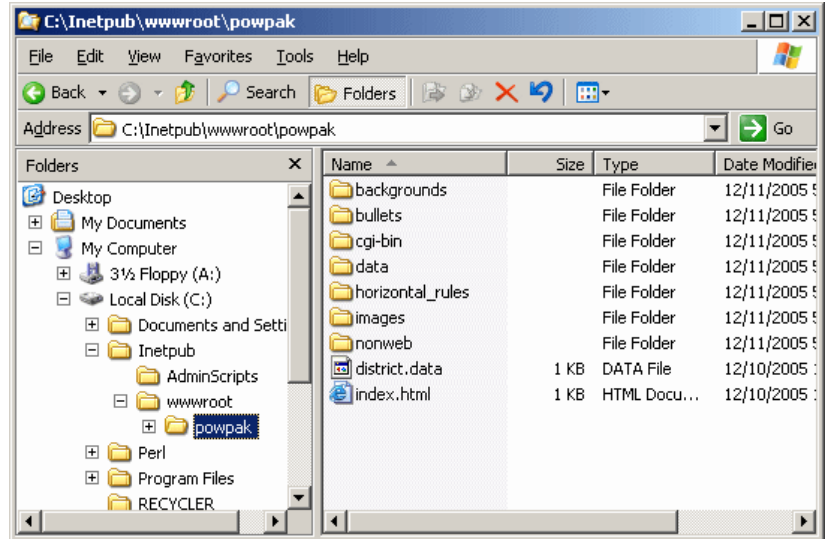
- 1) On the left, below the **“Web Sites”** folder, look for a folder called **“Web Service Extensions”**.
- 2) Click once on that folder to select it.
- 3) On the right you will now see the available web service extensions, including **“Perl CGI Extension”**.
- 4) Click on **“Perl CGI Extension”** to select it.
- 5) Click the **“Allow”** button if it is clickable to enable Perl.
- 6) Exit out of IIS when done.



Step 3: Install POW-PAK

The next step is to unzip the POW-PAK program and place it on your web server:

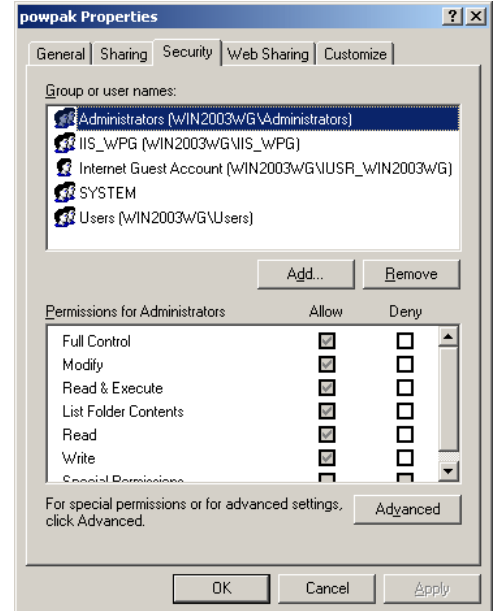
- 1) Unzip “**powpakwin.zip**” to a desktop folder or some other convenient location.
- 2) Start **Windows Explorer**.
- 3) Go to the **Home Directory** for your web pages (as determined earlier).
- 4) In the **Home Directory** create a web-accessible folder for POW-PAK, named something like “**powpak**” or “**homepages**” or such. For example you may end up with something like:
C:\inetpub\wwwroot\powpak
- 5) Copy the unzipped contents from “**powpakwin.zip**” into the web folder you created.



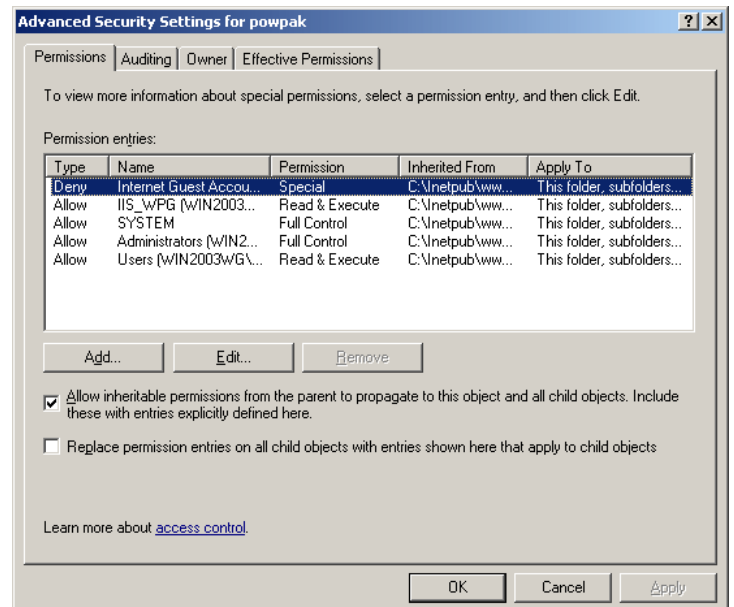
Step 4: Set Windows Permissions for POW-PAK folders and files

Next you need to make sure that all the files and folders for POW-PAK are accessible to the “**Internet Guest Account**”, and make sure that they are protected from other users who should not access the folder.

- 1) Start up **Windows Explorer** and locate the folder you created for POW-PAK.
- 2) Right-click on the POW-PAK folder and choose “**Properties**”
- 3) Click the “**Security**” tab. You may see something like the image to the right.

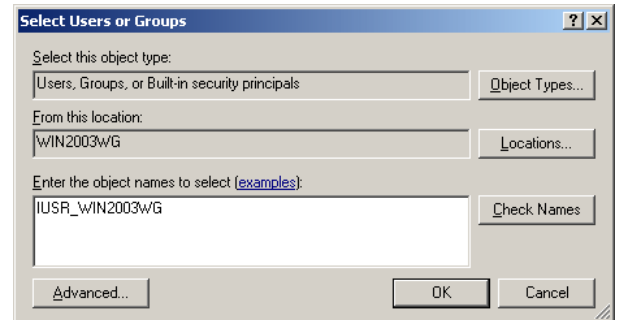


- 4) Now you want to stop the folder from inheriting permissions from parent folders, so these settings will not get changed in the future:
 - a) Click the “**Advanced**” button.
 - b) Uncheck the box labeled “**Allow inheritable permissions from parent to propagate to this object...**”.
 - c) Choose “**Copy**” when asked prompted with the “**Security**” box.
 - d) Click “**OK**”.

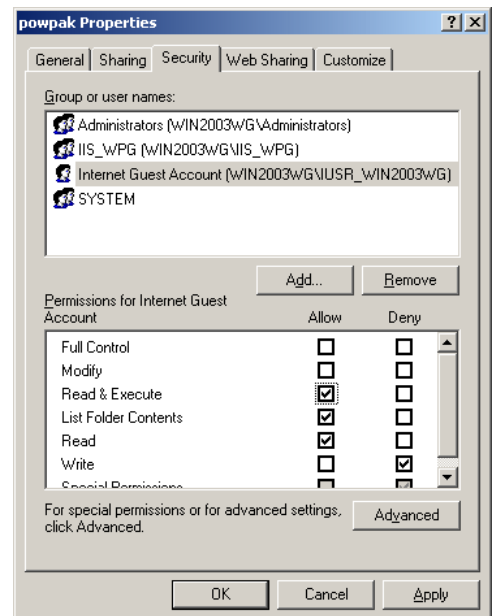


- 5) Next you need to remove users who should not have access to the POWPAK folder. This would include accounts such as “Users” or “Everyone”. If those accounts show up in the “Group or user names” box, do the following to remove them:
 - a) In the “Group or user names” box, click on “User” or “Everyone” to select the account.
 - b) Then click “Remove”.
 - c) Repeat for any other accounts you are sure should not access the program.

- 6) Now you need to add the “Internet Guest Account” to the list in case it is not there already. It may already be listed, but if not, do the following:
 - a) Click the “Add...” button.
 - b) Type in the name of the Internet Guest Account, such as “IUSR_WIN2003WG” in the example here.
 - c) Click “OK”.
 - d) Now you will be back to the “Properties” window with the Internet Guest Account added to the name list.

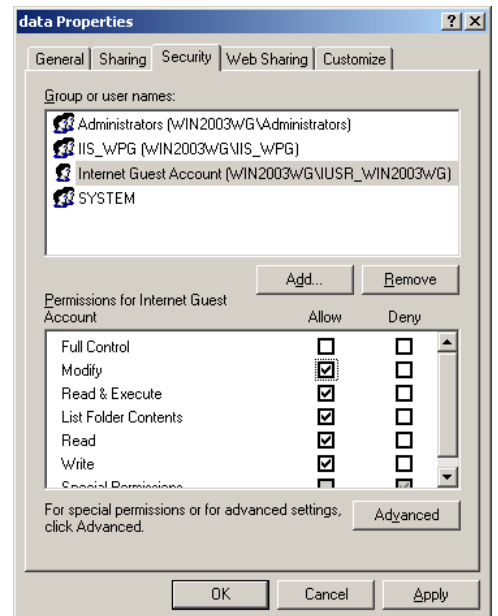


- 7) Now make sure that the “Internet Guest Account” has the correct permissions listed:
 - a) Click on the “Internet Guest Account” to make sure it is selected.
 - b) In the “Allow” column, make sure the only check marks are for:
 - c) Read & Execute
 - d) List Folder Contents
 - e) Read
- 8) Click “OK” to exit the “Properties” window.



Next you need to change the permissions for two special folders (“data” and “nonweb”) so that changes can be made to them by your users. You will still be using Windows Explorer for this.

- 1) Inside the folder you created for POW-PAK, locate the “data” folder.
- 2) Right-click on the “data” folder and choose “Properties”.
- 3) Click the “Security” tab.
- 4) Just like before, stop the folder from inheriting permissions from parent folders:
 - a) Click the “Advanced” button.
 - b) Uncheck the box labeled “Allow inheritable permissions from parent to propagate to this object...”.
 - c) Choose “Copy” when prompted with the “Security” box.
 - d) Click “OK”.
- 5) Now click on “Internet Guest Account” in the “Group or user names” box to select that account.
- 6) Check the box for “Modify” in the “Allow” column. This will automatically cause the “Write” option to be checked as well.
- 7) If the “Internet Guest Account” has any permissions set in the “Special Permissions” category, remove them by clicking “Advanced”, selecting the correct entry, and clicking “Remove”.
- 8) Click “OK” when done.



Repeat this exact same process for the “**nonweb**” folder, such as:

- 1) Inside the folder you created for POW-PAK, locate the “**nonweb**” folder.
- 2) Right-click on the “**nonweb**” folder and choose “**Properties**”.
- 3) Click the “**Security**” tab.
- 4) Just like before, stop the folder from inheriting permissions from parent folders:
 - a) Click the “**Advanced**” button.
 - b) Uncheck the box labeled “**Allow inheritable permissions from parent to propagate to this object...**”.
 - c) Choose “**Copy**” when prompted with the “**Security**” box.
 - d) Click “**OK**”.
- 5) Now click on “**Internet Guest Account**” in the “**Group or user names**” box to select that account.
- 6) Check the box for “**Modify**” in the “**Allow**” column. This will automatically cause the “**Write**” option to be checked as well.
- 7) If the “**Internet Guest Account**” has any permissions set in the “**Special Permissions**” category, remove them by clicking “**Advanced**”, selecting the correct entry, and clicking “**Remove**”.
- 8) Click “**OK**”.

Step 5: Move a folder and a file

Now that the permissions are set correctly, an important folder and an important file need to be moved as follows.

- 1) The “**nonweb**” folder will hold information that needs to be kept out of view. Locate and move the “**nonweb**” folder and its contents to a location that is not web-accessible, such as the root of your hard drive. For example you may end up with something like:
C:\nonweb
- 2) Next, there is the “**district.data**” file, which will hold information specific to your school.
 - a) Locate the “**district.data**” file (in the POW-PAK folder you initially created).
 - b) Move the “**district.data**” file to the home directory of you default web site (which you identified back in Step 2). For example you may end up with something like:
C:\inetpub\wwwroot\district.data
- 3) Now you need to protect the permissions on the “**district.data**” file so they do not get accidentally changed:
 - a) Right-click on the “**district.data**” file and choose “**Properties**”
 - b) Click the “**Security**” tab.
 - c) Click the “**Advanced**” button.
 - d) Uncheck the box labeled “**Allow inheritable permissions from parent to propagate to this object...**”.
 - e) Choose “**Copy**” when prompted with the “**Security**” box.
 - f) Click “**OK**”.
- 4) Click “**OK**” to exit.

Step 6: Edit the “**district.data**” file

At this point you need to edit the “**district.data**” file that you just moved, so that it will contain information specific to your school district and server:

- 1) Use a text editor, such as **Notepad**, to open the “**district.data**” file.
- 2) Each line in the file has two parts separated by a vertical line (a pipe). The first part of each line is the “**key**”. The second part is the “**value**” for that key. You will need to change several of the values.

- 3) For the “**path**” enter the full path to the directory you set up for POW-PAK. If the directory you created is not on the C:Drive, then you need to include the drive letter as well.
ex) path\Inetpub\wwwroot\powpak
- 4) For “**nonweb**” enter the full path to the location of the “nonweb” folder. If the location is not on the C:Drive, then you need to include the drive letter as well.
ex) nonweb\nonweb
- 5) For “**authtype**” enter “**program**” so you will use POW-PAK’s built-in authentication system.
ex) authtype\program
- 6) For “**district_name**” enter the name of your school district as you wish it to appear.
ex) district_name\Example City Schools
- 7) For “**district_url**” enter the web address of your district’s web site (without the http:// part)
ex) district_url\www.examplecityschools.org
- 8) For “**district_logo**” enter the name of graphics file for your district logo. Save the graphics file in the “**images**” directory of your POW-PAK folder.
ex) district_logo\example_logo.gif
- 9) For “**hck_url**” enter the web address for the POW-PAK folder you created (without the http:// part)
ex) hck_url\www.examplecityschools.org/powpak
- 10) For “**ev_username**” you should be able to leave that as “**REMOTE_USER**”.
ex) ev_username\REMOTE_USER
- 11) For “**support**” you should just leave this as “no”.
ex) support\no
- 12) Finally, save the file.

Step 7: Log in as admin

Now that POW-PAK is installed and configured, you may begin using it. First, here are the addresses for important files:

- **POW-PAK Administration** – This is where you will add, modify, and delete users. You access this feature through your web browser by going to:

[web address of POW-PAK]/cgi-bin/admin/admin_login.pl

For example: *http://www.example.org/powpak/cgi-bin/admin/admin_login.pl*

- **POW-PAK User Login** – This is where your staff would go to log into POW-PAK to create and edit their web pages:

[web address of POW-PAK]/cgi-bin/secure/login.pl

For example: *http://www.example.org/powpak/cgi-bin/secure/login.pl*

- **Viewing POW-PAK web pages** – Once your staff has made web pages with POW-PAK, you need to provide links to their creations. Here is the syntax for such links:

[web address of POW-PAK]/cgi-bin/homepage.pl?id=[username]

For example: *http://www.example.org/powpak/cgi-bin/homepage.pl?id=smithj*

At this point, begin using POW-PAK as follows:

- 1) Use your web browser to go to the **admin login** page, as indicated above.
- 2) **Log in** with this information:
 - a) Username = admin
 - b) Password = admin
- 3) Now from the main admin screen, do the following:
 - a) **Change the admin password** (for security reasons)
 - b) **Add any other admins** you wish
 - c) **Add any users** you wish
- 4) Finally, provide your users with the **user login** address, as indicated above, so they may begin creating their web sites.

Step 8: Contact CurtsWorks

Finally, when you have successfully installed the program, **please contact me** with the following information:

- **Your contact info** (school district name, your name, your email address)
- The **web address** for your install of POW-PAK

There are several reasons for doing this:

- 1) This will allow me to contact you about **any bug fixes, updates, or important news**. (*Your email will never be given to anyone else or used for any other purposes.*)
- 2) Also, I will be able to add your district's POW-PAK link to **the Ohio Treasure Chest**, so your teachers will be able to send links from the Treasure Chest straight to their Links Pages in POW-PAK. The Treasure Chest has thousands of valuable educational links for them to access.
- 3) Finally, it serves as an **encouragement** to me, to know who is using the program. As more schools use POW-PAK, I am motivated more to further develop this program.

You can contact me in any of the following ways:

Business email:	info@curtsworks.com
Personal email:	ecurts@neo.rr.com
Mailing address:	P.O. Box 19, Greentown, Ohio 44630
Phone number:	330-685-0470
Skype account:	ericcurts

Extra Info: Optional tech support service plan

Although POW-PAK is free, **I am not able to provide free tech support.** POW-PAK is used by a large number of districts and thousands of teachers. It would take many hours each week to address the number of questions that would arise. Since I already have a full-time job and a family life, it is necessary for me to charge for tech support to justify the time spent.

The **optional tech support service plan is \$250 for a year.** This provides:

- **Tech support** for your **tech staff** and for **your teachers** (with the tech support plan, a link will be activated on the main edit page which your teachers can use to contact me for assistance.)
- **Tech support** through **email, phone, Skype, or remote connection to your server**
- **Prioritized response** to your needs (usually within 24 hours)
- **Prioritized development** of new feature requests (new versions are typically released twice per year)
- A **warm and fuzzy feeling** for helping to support the development of the program

If you **choose not to pay** for the optional tech support service plan, you will still have the following:

- Teachers and tech staff have access to over **60 detailed and easy-to-understand help guides** built right into POW-PAK
- Tech staff have access to this detailed **POW-PAK install guide** to walk you through installing and configuring the program
- Although I would not be able to answer questions from teachers, I will still be glad to take **questions from your main tech person.** In such cases, I will **not be able to guarantee a timely reply**, but will provide a response when I am able to.

Please contact me (info@curtsworks.com) if you are interested in purchasing the optional tech support service plan.

Extra Info: Optional training services

If you want or need **training, professional development,** or any type of **speaking services,** I can be hired for that. Examples could include:

- **Professional development** for your staff (teachers, secretaries, administrators, etc.) on POW-PAK or any other technology need.
- **Training** for your tech support team on POW-PAK.
- **Consulting** on the implementation and use of POW-PAK.
- General technology assistance

Training services typically cost **\$100 per hour plus expenses.** For full details, visit my speaking services web page at:

<http://www.curtsworks.com/speak/>

NOTE: Training services and the tech support plan are **not required for you to acquire POW-PAK.** Such services are completely optional and based upon your needs or wants.