

25 June, 2008

From: Scott P. Chapman  
Radiant Technologies, Inc.  
To: Precision Workstation and Premier Tester Owners  
Subj: Vision 3.1.0 Reinstallation

Dear Precision Workstation or Premier Tester System Owner,

This letter accompanies the download of the Vision 3.1.0 installer for the Precision tester. This installer is intended for emergency use by test system owners whose initial Vision installation is no longer working. This would generally be the result of a disk crash, corruption of one or more Vision files or a mistaken attempt to update the tester's operating system. **THIS INSTALLER DOES NOT REPRESENT AN UPGRADE TO VISION.**

Although using the installer is a relatively simple operation, there are a variety of circumstances that require special handling. This document attempts to provide a complete set of instructions for all users. Please read this entire document.

The installer that you have downloaded will load Vision 3.1.0 properly onto a Precision Workstation running Windows XP. Note that if you are installing Vision onto a Precision Premier and/or to the Windows 2000 or Windows NT operating systems additional actions will be required. The instructions below cover the additional steps to modify the installation for all circumstances.

There are two primary differences that may exist between tester installations:

1. Operating System: The downloaded installer writes registry entries for Windows XP. In the Windows NT and Windows 2000 operating systems, Windows was installed into C:\WinNT. In Windows XP, the operating system is installed into C:\Windows. Minor changes are required to a single registry entry in order to allow the installed software to run under Windows NT or Windows 2000. No changes are necessary to run under Windows XP. Note that Vision 3.1.0 for the Workstation and Premier testers has never been tested under Windows XP. However, the driver may be assumed to work. No such assumption may be made for Windows Vista. Windows Vista has a unique driver structure. Vision 3.1.0 is not guaranteed to run if installed in Windows Vista.

2. **Tester Type:** There are three tester types. These are the Precision Workstation, Precision Workstation-D (older model) and the Precision Premier. The installer will write the proper driver for Precision Workstation owners. Owners of the Precision Workstation-D model will need to download and run the additional file WS Driver.3.1.0.D.exe. The Precision Workstation-D can be identified by the serial number. Precision Workstation Testers have serial numbers in the format WSxxxx-xxx (example WS1103-246). Precision Workstation-D testers have serial numbers in the format WSxxxx-xxx/D (example WS0800-205/D). Precision Workstation-D models are older, generally released before 2002. Precision Premier tester owners will need to download and run PM Driver.3.1.0.exe.

The original installation of the operating system on the testers partitioned the hard disk into a smaller (4 GB) c:\ drive and a larger d:\ drive. The legacy reasons for this are very old, but the practice continued for compatibility reasons until the Precision Workstation and Premier models were retired. The operating system and Vision software were installed to the c:\ drive, while data were written to the d:\ drive. This installer assumes that you have already installed the operating system and that you have made a single c:\ partition. However, Vision continues to address the d:\datasets directory by default. This is a very minor issue. There may be some minor inconvenience when you attempt to create or register a DataSet.

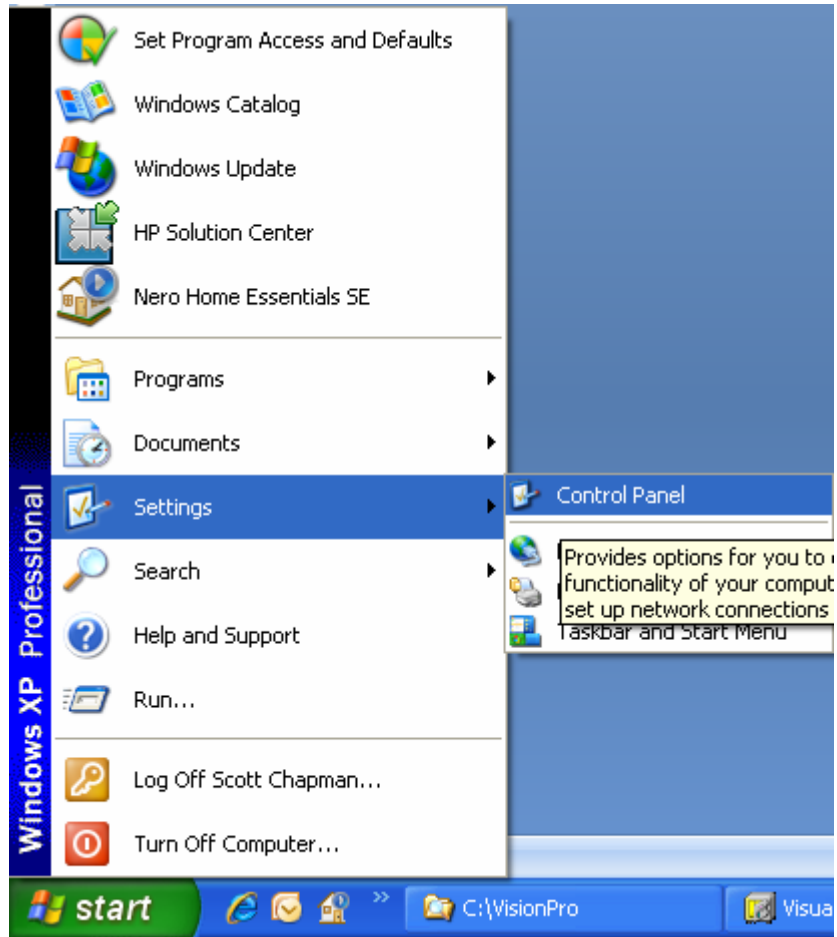
## **Instructions**

### **Step 1 – Install the Operating System (if not already accomplished)**

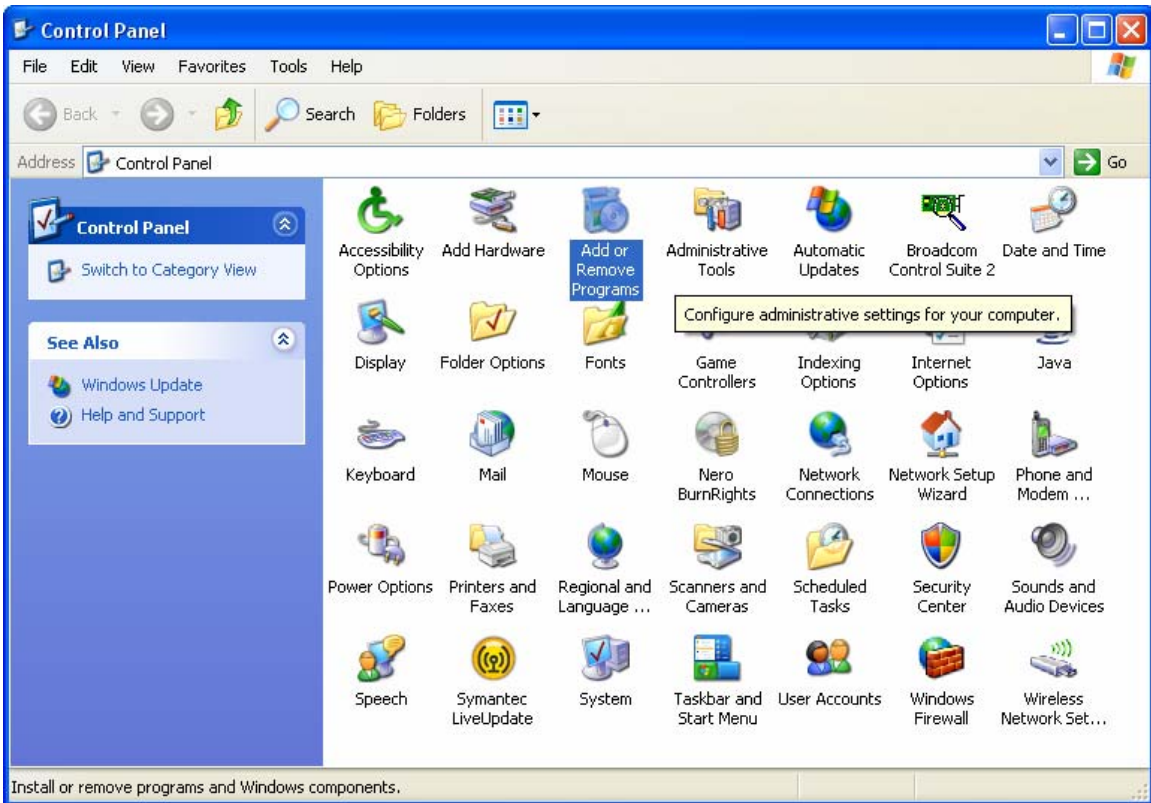
If your new hard disk has not yet been formatted, follow Microsoft procedures for installing the desired operating system. You may install Windows NT 4.0 (unlikely), Windows 2000 or Windows XP. Do not install Windows Vista. If you install Windows 2000 or Windows XP, you will need to take the actions in Step XXX. If you have not yet formatted your hard drive, you may wish to create both a c:\ and d:\ partitions. If you do so, you will need to take the additional action in Step XXX. Doing that will make your hard disk completely compatible with Vision. However, if you have only a single partition, do not concern yourself with reinstalling Windows.

### **Step 2 – Uninstall Vision if it is installed**

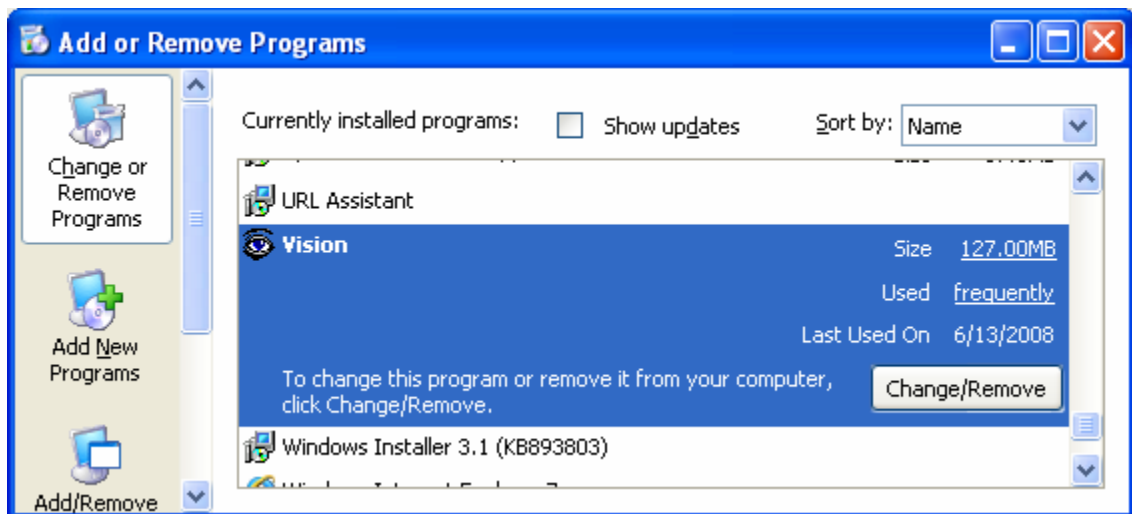
If you have already attempted to install Vision or there is any remnant of the original installation, it should be removed before continuing the new installation. Do not rely on the downloaded installer. Instead, use the Windows Add/Remove Programs tool. Go to Start->Settings->Control Panel (**Figure 1**). In the Explorer dialog that appears, select Add or Remove Programs (**Figure 2**). In the dialog that appears, locate and select Vision in the “Currently installed programs” list. Then click “Change/Remove” (**Figure 3**). Allow the installer to completely remove Vision.



**Figure 1 - Go to Start->Settings->Control Panel.**



**Figure 2 - Select "Add or Remove Programs".**



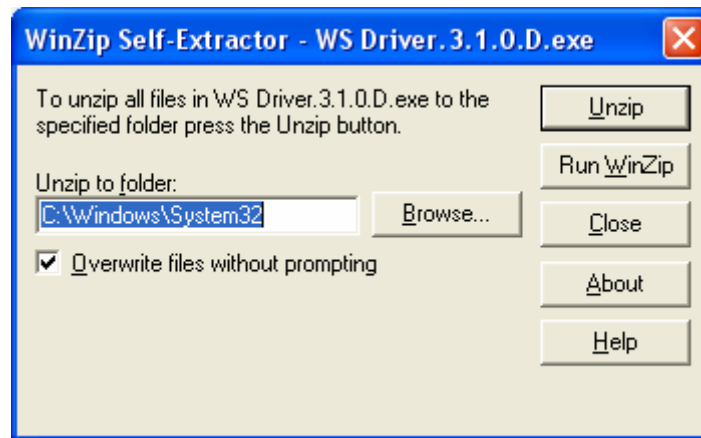
**Figure 3 - Locate Vision and Click "Change/Remove".**

### Step 3 – Download and Run Vision 3.1.0.exe

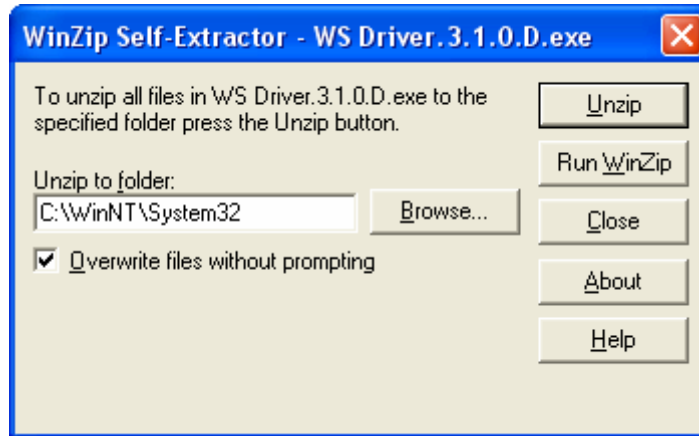
This will completely install the Vision program and drivers. If you own a Precision Workstation and if you have Windows XP installed on a single partition, you need only reboot the system and test the Vision program.

### Step 4a – Update the Driver for the Precision Workstation-D Tester

If your Precision Workstation tester has a serial number of the format “WSxxxx.xxx/D”, download and run the self-extracting executable file WS Driver.3.1.0.D.exe. If you are installing onto Windows XP, the file should be executed as is (**Figure 4**). If you are installing onto Windows 2000 or Windows NT 4.0, the “Windows” text in the file path must be changed to “WinNT” (**Figure 5**). Do not make this change if you are installing to Windows XP.



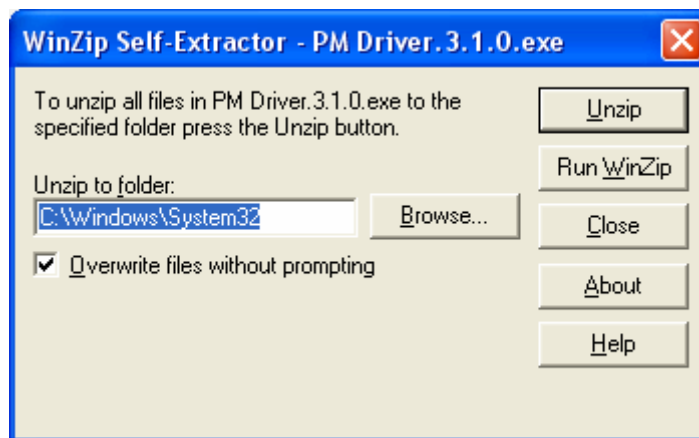
**Figure 4 - Install the Precision Workstation-D Driver to Windows XP.**



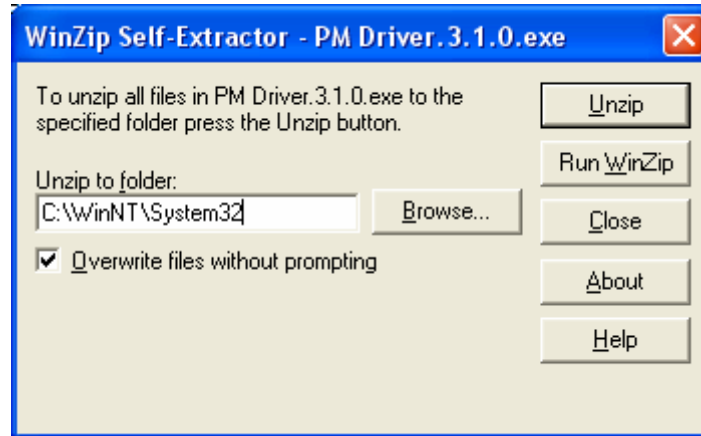
**Figure 5 - Install the Precision Workstation-D Driver to Windows NT 4.0 or Windows 2000.**

Step 4b – Update the Driver for the Precision Premier Tester

If you own the Precision Premier tester, download and run the self-extracting executable file PM Driver.3.1.0.exe. If you are installing onto Windows XP, the file should be executed as is (**Figure 6**). If you are installing onto Windows 2000 or Windows NT 4.0, the “Windows” text in the file path must be changed to “WinNT” (**Figure 7**). Do not make this change if you are installing to Windows XP.



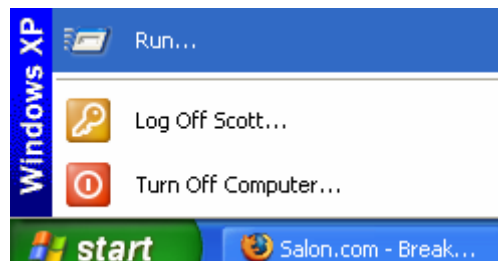
**Figure 6 - Install the Precision Premier Driver to Windows XP.**



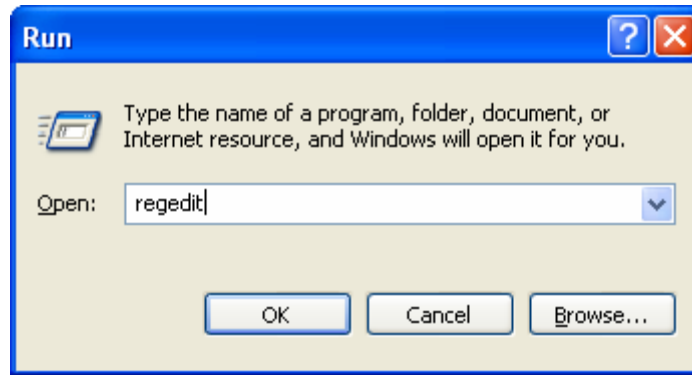
**Figure 7 - Install the Precision Premier Driver to Windows NT 4.0 or Windows 2000.**

Step 5 – Update the Registry for Windows NT 4.0 or Windows 2000

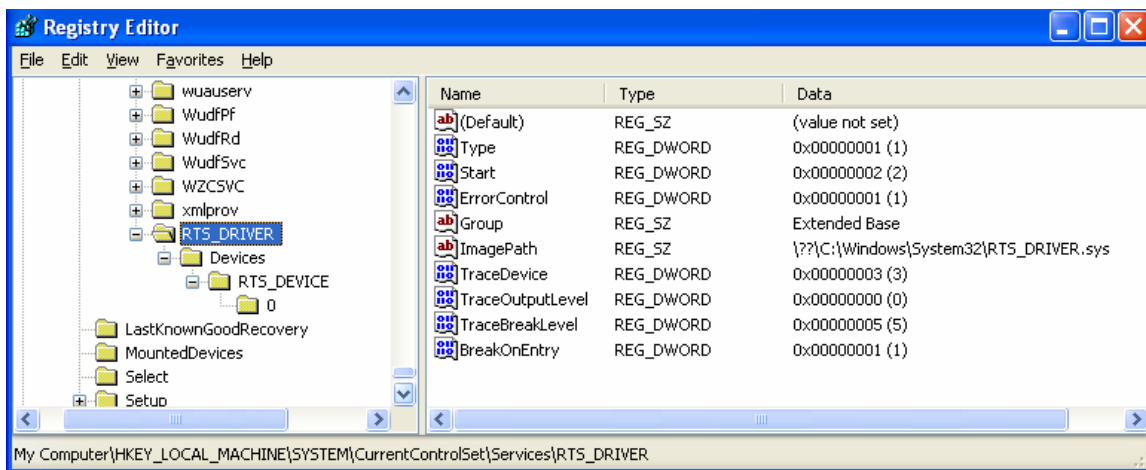
If you are installing Vision onto Windows NT 4.0 or Windows 2000, you must make a simple registry change. Go to Start->Run (**Figure 8**). In the dialog type “regedit” (**Figure 9**) and click “OK”. In the Explorer window that opens go to HKEY\_LOCAL\_MACHINE\System\ CurrentControlSet\Services\RTS\_DRIVER. In the right side of the Explorer window, double-click the “ImagePath” entry (**Figure 10**). (Don’t be concerned if the values in your registry do not exactly match those of these Figures.) In the dialog that opens (**Figure 11**) change the “Windows” portion of the text to “WinNT” (**Figure 12**). Click OK and close the Explorer. Do not perform this step if you are installing Vision on Windows XP.



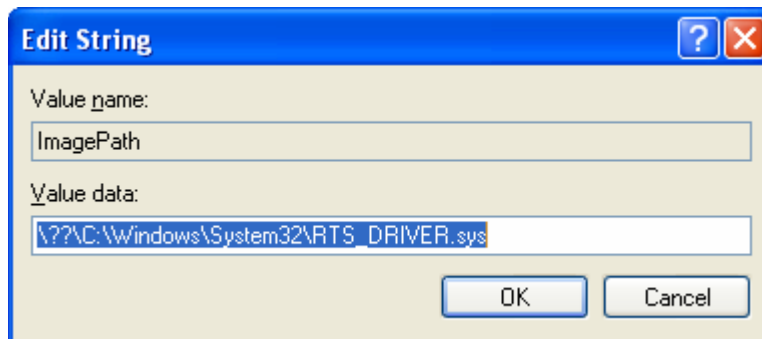
**Figure 8 - Open the Command Line "Run" Dialog.**



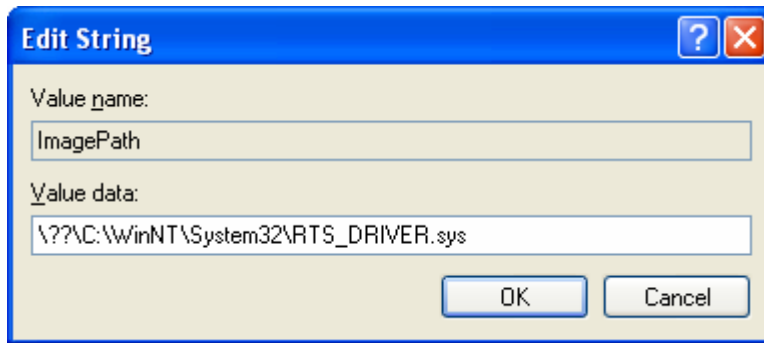
**Figure 9 - Type "regedit".**



**Figure 10 - Go to HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Service\RTS\_DRIVER.**



**Figure 11 - Double-Click the ImagePath Item to Open the Edit Dialog.**



**Figure 12 - Change the "Windows" Value to "WinNT".**

Step 6 – Copy any Legacy DataSet Files to c:\datasets

If you have managed to recover any of your legacy DataSets, they should be placed in c:\datasets. You may actually maintain the DataSets anywhere you choose, but c:\datasets is provided as a central location for all DataSets.

Step 7 – Move the DataSets directory to the d:\ partition (if you have made one)

If you have followed the instructions for installing an operating system presented above, you may have made a d:\ partition on your hard drive for data. In that case, you should move the c:\datasets directory to d:\datasets. By default, Vision will look to create new DataSets in, or reregister old DataSets from d:\datasets.

Step 8 – Reboot

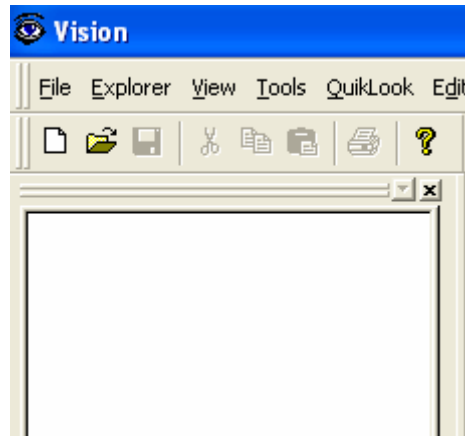
You must reboot for the driver to start under Windows.

Step 9 – Run Vision and Test

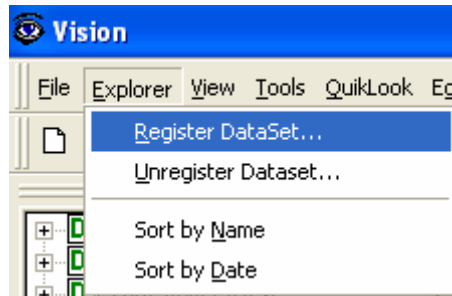
Start Vision. Ensure that it does not indicate that the driver has not been found. It will also, very likely, indicate that a new database has been created.

Step 10 – Register any Desired DataSets

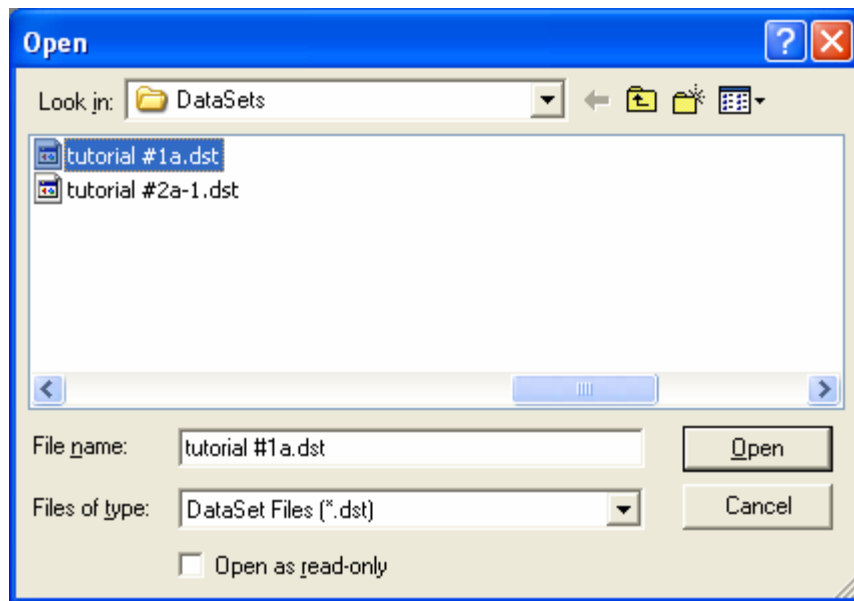
During the process of recovering Vision, for whatever reason, it is likely that the organization of DataSet in the DataSet Explorer will have been lost. In that case, Vision's DataSet Explorer window will be empty (**Figure 13**) when Vision is first started. In order to work with legacy or tutorial DataSets, they must be reregistered with Vision. In the main Vision menu go to Explorer->Register DataSet... (**Figure 14**). In the dialog that appears, browse to the location of the DataSet file to be opened. (By default, Vision will attempt to browse to d:\datasets.) Select the desired file and click "Open" (**Figure 15**). The DataSet will be registered and will appear at the top of the Vision DataSet Explorer window (**Figure 16**). Repeat for each desired DataSet.



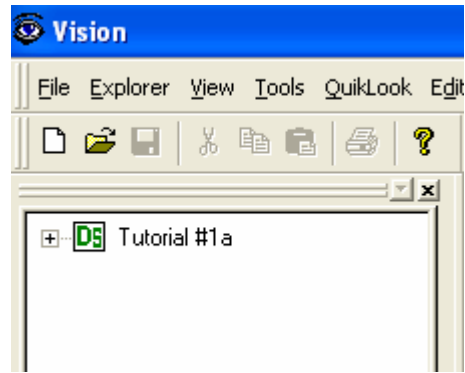
**Figure 13 - Initial Vision DataSet Explorer Window.**



**Figure 14 - Open the Register DataSet... Tool.**



**Figure 15 - Browse to and Select the Appropriate DataSet.**



**Figure 16 - The Newly-Registered DataSet Appears in the Vision DataSet Explorer Window.**

With the downloaded installer and these instructions, you should be able to get any Precision Workstation or Premier tester fully operational very quickly. Please do not hesitate to contact me immediately if you have any questions, comments or difficulties.

Sincerely,

Scott P. Chapman  
Computer Engineer