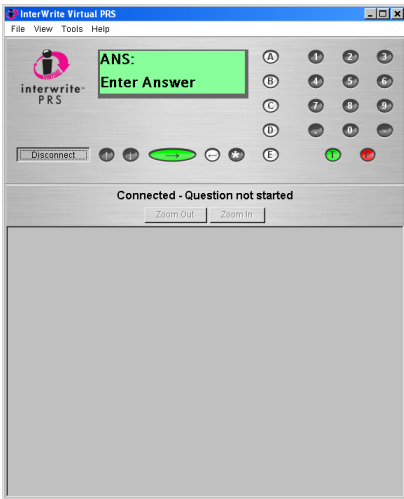
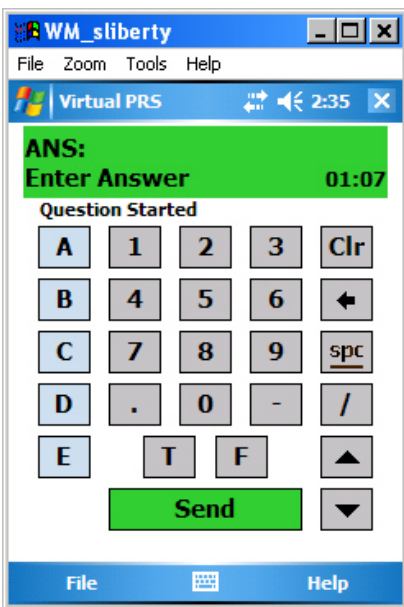


Interwrite *Virtual* PRS Instructor's Guide



Virtual PRS for PCs



Virtual PRS for PDAs

Interwrite Virtual PRS gives you and your students a choice between using the PRS RF Clicker hardware or the Virtual PRS software application on a computer or PDA to respond to questions during a PRS Session. Virtual PRS mimics the look and functionality of the PRS RF Clicker. With Virtual PRS installed on a computer attached to a Local Area Network or Wireless Network, or a Windows Mobile-based PDA with Wi-Fi capability, students can participate in a PRS Session, answering questions and turning in homework assignments, just as they would if they were using a PRS RF Clicker. Virtual PRS for PCs displays an image with an instrument panel that resembles the PRS RF Clicker. Virtual PRS for PDAs displays the VPRS Display above a keypad that features most of the RF Clicker keys. The student types his answer by clicking on the keys on the keypad or typing on the keyboard on the computer or the pup-up keyboard on the PDA. The answer displays in the ANS field in the VPRS Display and Virtual PRS transmits it to the PRS software on the host computer. Status messages regarding transmissions and the state of the PRS Session are displayed below the ANS field.

Virtual PRS for PCs can be used in a computer lab or a computer-equipped classroom. It can be installed on students' personal computers that can connect to the school's LAN or Wi-Fi network, or on school computers. Virtual PRS for PDAs is installed on a student's PDA (Pocket PC). The PDA must be running Windows Mobile 3.0 or 5.0 and have Wi-Fi capability. You must have a Wi-Fi router running in the classroom. If a PRS RF Receiver is attached to the host computer, both RF Clickers and computers and/or PDAs running Virtual PRS can participate in a PRS Session. However, an RF Receiver is not necessary if everyone in the class is using Virtual PRS.

The way you use PRS will not change when you have PCs and/or PDAs running Virtual PRS. Everything is the same as it is with RF Clickers. You just have to enable Virtual PRS Support to make PRS ready to accept responses from Virtual PRS systems.

If you are setting up a computer lab or a computer-equipped classroom with Virtual PRS for PCs, you will have to install the Virtual PRS on each computer. Download the software from the Interwrite Learning Web site at www.InterwriteLearning.com/vprs. First you will set up an account on the Virtual PRS Web site. You have the option of selecting an Individual License or a Site License (for up to 50 users). The activation codes assigned to the selected license type will be retained in your account. You will also be sent an email with the activation codes. Registration, installation, and activation are one-time-only operations.

Virtual PRS for PCs can be configured just as RF Clickers are configured. (Virtual PRS for PDAs cannot be configured.) *Normal* is the default configuration. A Normal Virtual PRS can connect to any Open RF Class that has Virtual PRS Support enabled. Virtual PRS can be configured as *Loaner*. A student using a Loaner Virtual PRS will be required to provide his Student ID and name every time he tries to connect to an Open RF Class. Virtual PRS can be configured as *Closed*. A Closed Virtual PRS automatically connects to the Closed RF Class. A Closed Loaner Virtual PRS prompts for the Student ID and name before it automatically connects to the Closed RF Class.

With Virtual PRS Support enabled, you will start a Class. Students using Virtual PRS will *connect* to the Class by entering the Host IP Address that is displayed on the RF Status Bar at the bottom of the PRS application window.



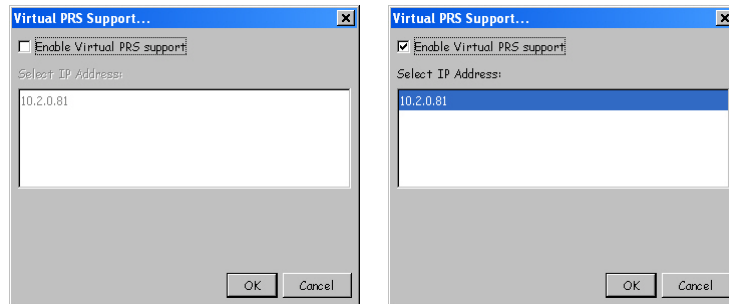
When students are connecting to your RF Class, remind them to verify that the Host IP Address published on the RF Status Bar is the same as the one in their Connect dialog. If you are running PRS from a thumb drive and moving to different computers, the Host IP Address will change from Class to Class. The students' Connect dialog will remember the Host IP Address last used.

Once connected, students will be able to participate in PRS Sessions, answering questions or submitting homework assignments. This Instructor's Guide describes how to enable Virtual PRS Support, the installation and setup of Virtual PRS for PCs on a computer, the installation and setup of Virtual PRS for PDAs on a PDA, how to configure Virtual PRS for PCs, and how to use Virtual PRS to send responses and homework assignments. In addition, the Virtual PRS menus are reviewed.

Enable Interwrite Virtual PRS Support

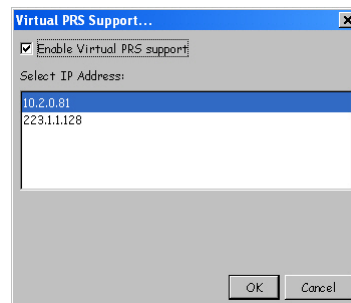
Before students can use Virtual PRS to connect to your Classes, you must *enable* Virtual PRS support in PRS. The Virtual PRS Support option is selected from the **RF** menu. It makes the *Host IP Address* available to the Virtual PRS installations, whether students are using Virtual PRS on computers connected to the LAN or Wireless Network or Virtual PRS on PDAs connected via Wi-Fi. The Host IP Address is the IP address of the computer (the host) on which InterWrite PRS is installed. The computers on which Virtual PRS for PCs is installed (clients) must be on the same Local Area or Wireless Network as the PRS host computer. The PDAs running Virtual PRS for PDAs must have Wi-Fi capability and the PRS host computer must be on a Wireless Network.

- 1 From the PRS **RF** menu, select the *Virtual PRS Support* option.
- 2 Click on the *Enable Virtual PRS support* checkbox. When you do, the *Select IP Address* window is activated.



- 3 Click on the **OK** button to complete the operation. A prompt will display indicating that PRS must be restarted before Virtual PRS Support goes into effect.

You might see multiple IP addresses in the *Select IP Address* window, depending on how many network connections are available. A Host Computer connected to both a Local Area Network and a Wireless Network will have two IP addresses.



Choose the IP address of the network that both the host PRS computer and the Virtual PRS clients can connect to. Both the host computer and the client computers and/or PDAs must be connected to the same network in order for the Virtual PRS clients to be able to send data to the PRS host.

If you are not sure whether Virtual PRS is going to work in your network environment, connect both the host computer and a client computer to the network. Retrieve the IP address from the host computer. From the client, *ping* the IP address of the host to see if you get a reply back from the host. If you do, it means that the packets sent to the host were received. Virtual PRS will work in this environment. If you have additional questions regarding the network setup at your facility, you should contact your Network System Administrator.

Virtual PRS must allow TCP/IP traffic over the following ports: 14556, 14557 and 15555. You may need to verify this with your System Administrator.

Download, Installation and Setup

Interwrite Virtual PRS for PCs

Register and Download

Log on to our Web site at www.InterwriteLearning.com/vprs to register and download the Virtual PRS software. When you register, the activation codes for Virtual PRS will display. The codes are saved in your registration account. In addition, you will receive an email containing the codes. Download the Virtual PRS software from the Interwrite Learning Web site to a location on one of the computers that will be used by a student during PRS sessions.

Install

Windows

- 1 Navigate to the location of the downloaded Virtual PRS application.
- 2 Double-click on the Virtual PRS application icon.
- 3 Follow the onscreen installation instructions.

Mac

- 1 Navigate to the location of the downloaded Virtual PRS application.
- 2 Double-click on the Virtual PRS application icon.
- 3 Follow the onscreen installation instructions.

Linux

Virtual PRS is compatible with every Linux 2.6 kernel with the **udev** file system. The Virtual PRS application software must be installed on Linux by a user logged in as *root*.

- 1 Log in as *root*.
- 2 Double-click on the Virtual PRS application icon.
- 3 Follow the onscreen instructions for the software installation.

Activate

- 1 From the **File** menu, select the *Activate* menu option.
- 2 Enter the *Serial Number* and *Authorization* codes in their respective fields.
- 3 Click on the **Activate** button.

Set Preferences

- 1 From the **File** menu, select the *Preferences* menu option. (On the Mac, *Preferences* is on the InterWrite Virtual PRS application menu.)
- 2 Enter the student's *Last Name* and *First Name*.
- 3 Click on the **OK** button to accept the preference settings.

Configure Interwrite Virtual PRS for PCs

The screenshot shows the 'Configure' dialog box with the following fields: Type: Normal (selected in a dropdown menu), Host IP Address: 10 . 2 . 0 . 81, Last Name: Liberty, and First Name: Susan. There are OK and Cancel buttons at the bottom right.

The screenshot shows the 'Configure' dialog box with the following fields: Type: Loaner (selected in a dropdown menu), Host IP Address: 10 . 2 . 0 . 81, Last Name: Liberty, and First Name: Susan. There are OK and Cancel buttons at the bottom right.

The screenshot shows the 'Configure' dialog box with the following fields: Type: Closed (selected in a dropdown menu), Host IP Address: 10 . 2 . 0 . 81, Last Name: Liberty, First Name: Susan, and Student ID: 1. There are OK and Cancel buttons at the bottom right.

The screenshot shows the 'Configure' dialog box with the following fields: Type: Closed Loaner (selected in a dropdown menu), Host IP Address: 10 . 2 . 0 . 81, Last Name: Liberty, and First Name: Susan. There are OK and Cancel buttons at the bottom right.

The screenshot shows the 'Configure' dialog box with the Type dropdown menu open, displaying the options: Normal, Loaner, Closed, and Closed Loaner. The other fields (Host IP Address, Last Name, First Name) are visible but not fully filled in.

The concept of configuring the response device began with the introduction of the RF Clicker. Configuration provides flexibility in the way it is used in the classroom. The configuration options for both RF Clicker and Virtual PRS are *Normal*, *Loaner*, *Closed* and *Closed Loaner*.

Normal is the default configuration. It should remain unchanged for any Virtual PRS installation that is always used by the same person to connect to all Open Classes for which Virtual PRS support has been enabled.

Virtual PRS should be configured as a *Loaner* on computers in a computer lab or classroom where different students will be using the computer over the course of a day to connect to Open Classes. The hallmark of the *Loaner* Virtual PRS configuration is that it prompts for a Student ID and the student's name before the student can connect to the Open Class.

A *Closed* Virtual PRS configuration is typically used in a classroom where each student is assigned to a specific computer and the **Class System Type** is designated as *Closed*. The benefit of a *Closed* Virtual PRS configuration is that it automatically connects to the Class without displaying the **Connect to Host** dialog. Every *Closed* configuration is password-protected, so it can be changed only by a person who knows the configuration password.

The *Closed Loaner* configuration combines the characteristics of the *Loaner* configuration and the *Closed* configuration. It is used in a classroom or computer lab where different students will be using Virtual PRS at different times to connect to Closed Classes. Each time the *Closed Loaner* Virtual PRS tries to connect to a Closed Class, it will prompt for a Student ID and the student's name.

- 1 Select the *Configure* menu option from the **File** menu.
- 2 Drop down the **Type** menu on the **Configure** dialog and select a configuration type.
- 3 Fill in the information required for the configuration you chose.
- 4 Click on the **OK** button to save the configuration.
- 5 If you selected the *Closed* or *Closed Loaner* configuration type, you will be prompted to provide a password. If you are configuring multiple installations of Virtual PRS for PCs, it is recommended you use the same password for all installations.

Interwrite Virtual PRS for PDAs

Register and Download

Log on to our Web site at www.InterwriteLearning.com/vprs to register and download the Virtual PRS software. When you register, the activation codes for Virtual PRS will display. The codes are saved in your registration account. In addition, you will receive an email containing the codes. Download the Virtual PRS for PDAs software from the Interwrite Learning Web site to a location on the computer that will be used to connect to the PDA.

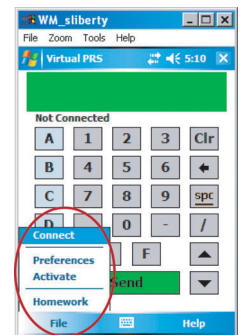
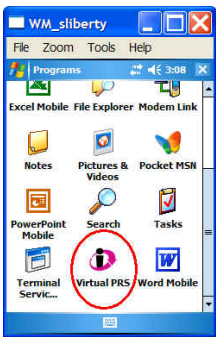
Install the Virtual PRS Software

The download consists of four files in a zipped file, *VirtualPRS.zip*. The files are *Release Notes.html*, *setup.exe*, *VirtualPRS.CAB*, and *setup.ini*.

- 1 Unzip *VirtualPRS.zip* to a folder on your desktop.
- 2 Start up ActiveSync.
- 3 Run *setup.exe* and follow the onscreen prompts.

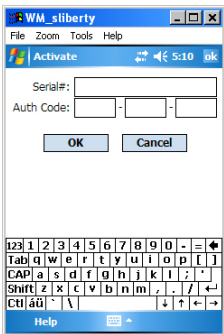
Run Virtual PRS

Virtual PRS is run by clicking on the Virtual PRS icon in the **Programs** folder.



Activate

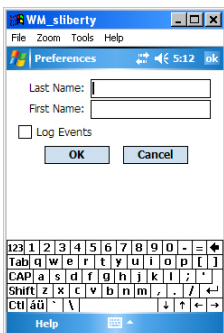
- 1 From the **File** menu at the bottom of the Virtual PRS display, select the *Activate* menu option.
- 2 Enter the *Serial Number* and *Authorization* codes you received in their respective fields.
- 3 Click on the **OK** button.



Virtual PRS will display a prompt that indicates the length of the Activation period.

Set Preferences

- 1 From the **File** menu, select the *Preferences* menu option.
- 2 Enter your *Last Name* and *First Name*.
- 3 Enable *Log Events* (used for troubleshooting) by clicking on the checkbox.
- 4 Click on the **OK** button to accept the preference settings.



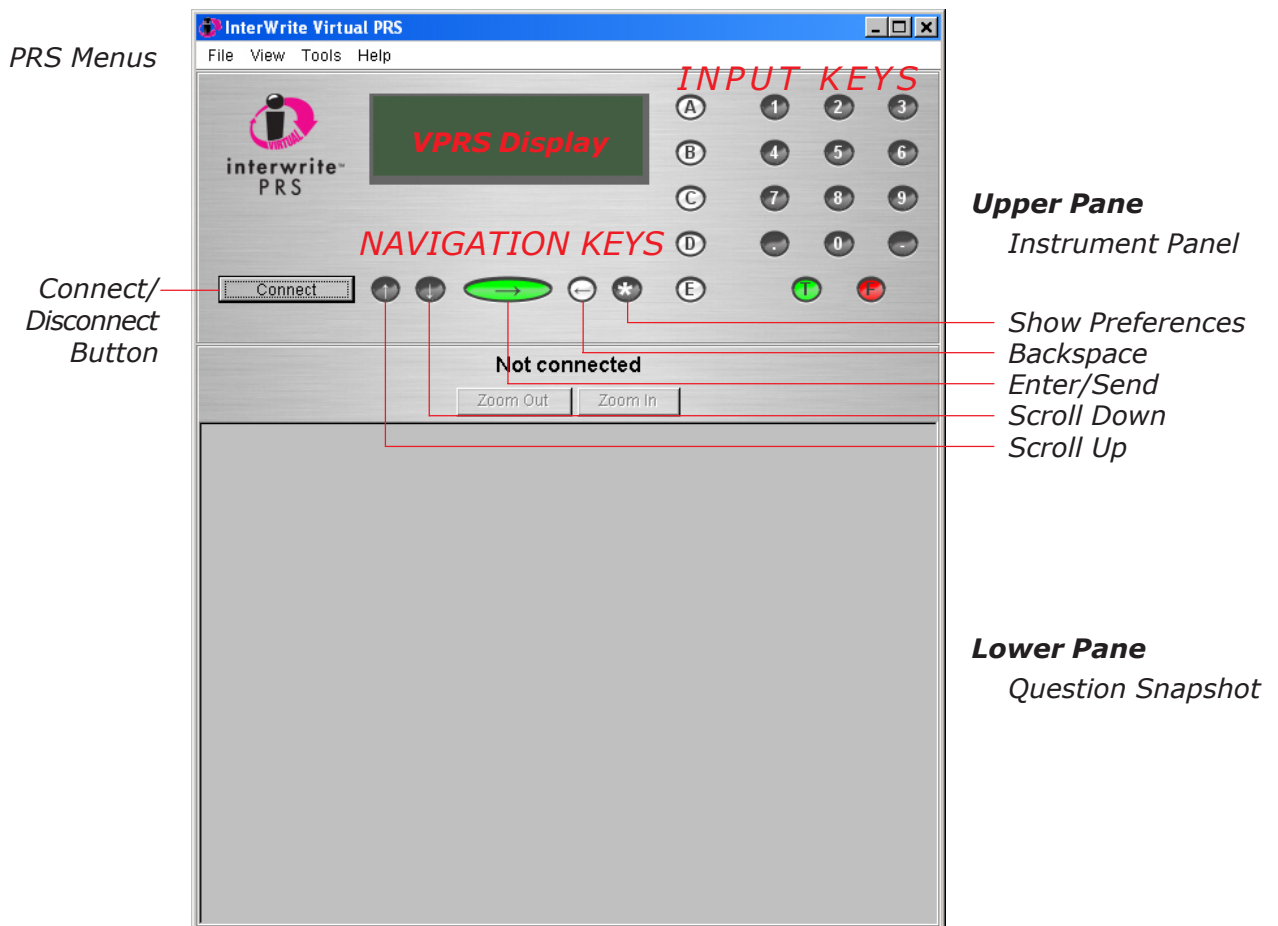
Interwrite Virtual PRS for PCs

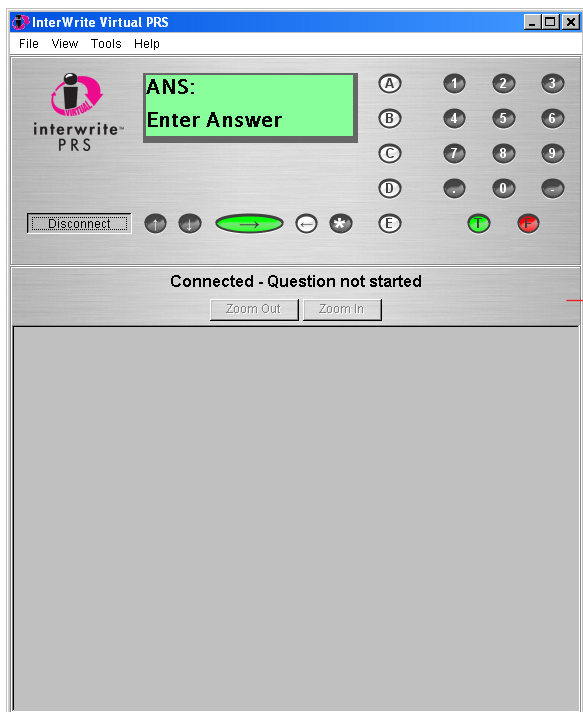
Once you have enabled Virtual PRS support in the PRS software and Virtual PRS has been installed on the computers being used in your classes, your students will be able to use Virtual PRS to *connect* to your RF Classes. (RF Clickers *join* those Classes.)

Every time you *start* a Class, the **Host IP Address** will be published in the RF Status Bar at the bottom of the PRS window. In a Virtual PRS-only Class, where there is no RF Receiver attached to the host computer, the Host IP Address will appear in angle brackets next to the name of the Class on the RF Status Bar. When an RF Receiver is attached to the host computer and Virtual PRS Support has been enabled, two instances of the Class will display on the RF Status Bar. One instance will be followed by the **Quick Jump** number in angle brackets, while the second will have the **Host IP Address** in angle brackets next to the name of the Class.

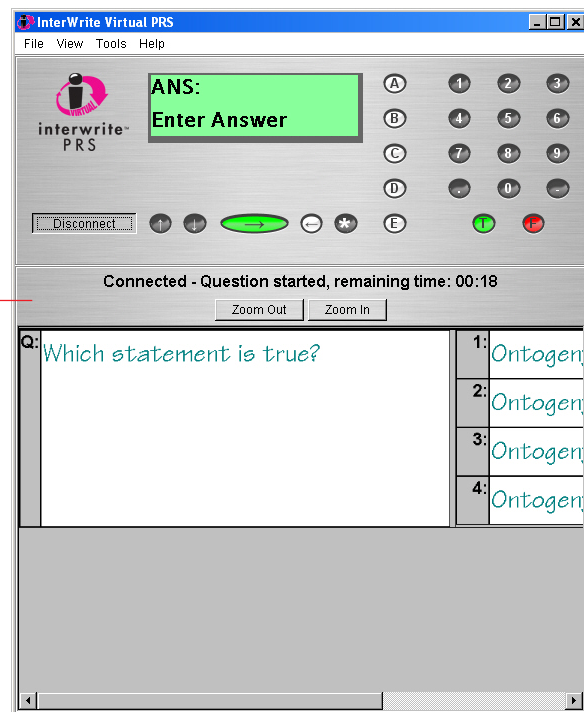
Using Virtual PRS

The Virtual PRS for PCs window consists of two panes. The Upper Pane displays the Virtual PRS instrument panel. The Lower Pane displays a snapshot of each Question during a PRS Session. The **Zoom** buttons are used to size the Question snapshot by zooming in or out. The **Status Bar** between the Upper and Lower Panes displays the status of the Virtual PRS connection and the Timer, when a timed Question has been started, or a Self-Paced Session is in progress.





Virtual PRS Connected



Question Started

Status Bar

Connect

These are the basic Connection instructions. The procedure will vary slightly for Virtual PRS installations that have been configured.

- 1 Start up Virtual PRS.
- 2 Click on the **Connect** button.
- 3 The first time Virtual PRS tries to connect to PRS, the student will be prompted to enter his **Student ID** and the **Host IP Address** in the **Connect to PRS Host** dialog. That information is retained, making subsequent connections easy. It will be a matter of just clicking on the **Connect** button, then clicking on the **OK** button to process the connection to the PRS Class. Nevertheless, students should be reminded to check the Host IP Address displayed in PRS against the one in their Virtual PRS Connect dialogs to make sure they are the same.
- 4 When you end the Class, students should be reminded to click on the **Disconnect** button.

Input Answers and Send Them

As Responses are entered, they will display in the **ANS** field on the Virtual PRS Display. Status messages appear in the display below the ANS field. Students can use the computer keyboard to respond to questions, or they can click on the keys on the Virtual PRS instrument panel.

| Virtual PRS Key | Equivalent Keyboard Key | Description |
|-----------------|-------------------------|---|
| | Period | Enter a decimal point in a Numeric answer |
| | Hyphen | Enter a minus sign as the first character in a Numeric answer |
| | Up Arrow | Scroll up to the previous Question during a self-paced test |
| | Down Arrow | Scroll down to the next Question during a self-paced test |
| | Enter | Send the answer during a PRS Session Save the answer to a homework assignment question |
| | Backspace | Backspace one character position |
| | N/A | Display the Preferences dialog |

The Interwrite Virtual PRS for PCs Menus

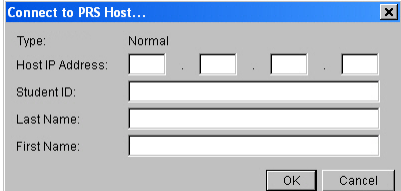
File Menu

| |
|----------------|
| Connect... |
| Configure... |
| Activate... |
| Preferences... |
| Exit |

The Virtual PRS menus provide a variety of features for setting up Virtual PRS and for using it to do homework assignments.

Connect...

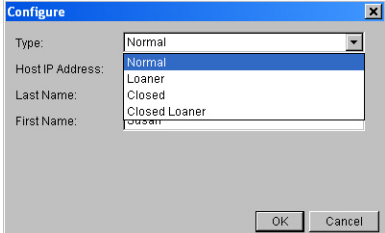
The *Connect* File menu option and the **Connect** button both display the **Connect to PRS Host** dialog.



The 'Connect to PRS Host...' dialog box contains the following fields: Type (Normal), Host IP Address (four input boxes), Student ID (text box), Last Name (text box), and First Name (text box). It has OK and Cancel buttons at the bottom right.

Configure...

Virtual PRS can be configured to be used in a variety of classroom scenarios. The default configuration for Virtual PRS is *Normal*. If students will be installing Virtual PRS on their personal computers for use in classes that are running PRS, there is no need to change that configuration. The other configurations, described on page 4, are *Loaner*, *Closed* and *Closed Loaner*.

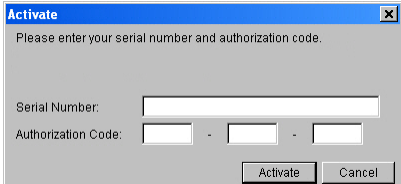


The 'Configure' dialog box contains the following fields: Type (Normal), Host IP Address (Normal), Last Name (text box), and First Name (text box). It has OK and Cancel buttons at the bottom right.

Activate...

Virtual PRS must be activated before it can be used in a PRS session. The set of activation codes is obtained via email when the Virtual PRS product is registered on the Interwrite Learning Web site at

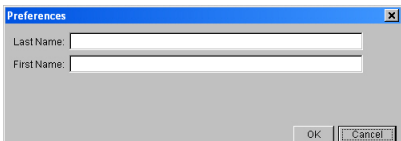
www.InterwriteLearning.com/vprs



The 'Activate' dialog box contains the following fields: Serial Number (text box) and Authorization Code (three input boxes). It has Activate and Cancel buttons at the bottom right.

Preferences...

The student's First Name and Last Name are established in the **Preferences** dialog. This information is transmitted to PRS, along with the Student ID, to ensure the student's answers are attributed to him or her.



The 'Preferences' dialog box contains the following fields: Last Name (text box) and First Name (text box). It has OK and Cancel buttons at the bottom right.

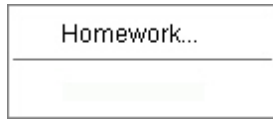
View Menu

| |
|------------|
| ◆ Small |
| Medium |
| Large |
| ✓ Buttons |
| ✓ Question |

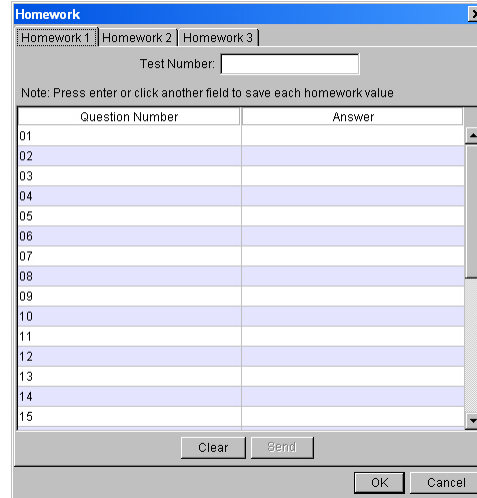
You can change the size of the Virtual PRS window and buttons from the default *Small* to *Medium* or *Large*.

The button keys display in the Upper Pane of the Virtual PRS window and a snapshot of the question displays in the Lower Pane. The check mark indicates the view is turned on. You can turn off either or both of these views from this menu.

Tools Menu



Virtual PRS can store up to three homework assignments. Each homework assignment can have up to 30 questions. You will *collect* the homework assignments during a specially configured PRS Session. The **Send** button on the **Homework** dialog is active only when a Homework Collection Session is running.



Instructions for Using the Homework Option

- 1 Select the *Homework* option from the **Tools** menu.
- 2 Enter the *Test Number* of the homework assignment in the Test Number field to identify this homework assignment.
- 3 Click on the *Answer* field of the Question you are going to answer. Type your answer to the Question.
- 4 Press the **Enter** key, or move to another Answer field, to save your answer.
- 5 Click on the **OK** button to save the homework assignment. You can return to any of the homework assignments you have saved and continue answering questions or edit existing answers. The homework assignment will remain in place until you delete it by clicking on the **Clear** button.

Turning in Homework Assignments

Homework assignments are collected during a Homework Collection Session.

- 1 Connect to the Class.
- 2 Select the *Homework* option from the **Tools** menu.
- 3 Click on the Homework Tab of the assignment being collected.
- 4 When a Homework Collection Session has been started, the **Send** button will be active. Click on the Send button to turn in the homework assignment.

Help Menu



How To...

This Virtual PRS User's Guide and a number of Virtual PRS tutorials can be accessed by selecting this menu option.

Check for Updates...

Updates to the Virtual PRS will be available on the Interwrite Learning Web site at **www.InterwriteLearning.com**. You should periodically select this menu option to ensure you have the latest version of Virtual PRS.

About...

The *About* menu option displays software version and contact information.

Interwrite Virtual PRS for PDAs

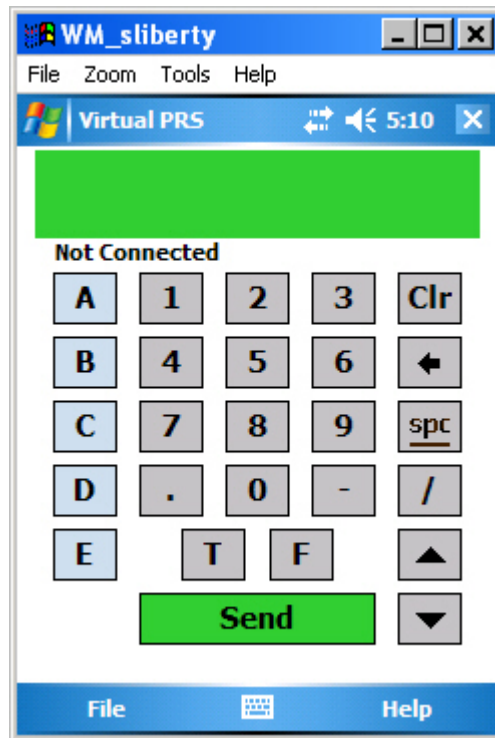
You must enable *Virtual PRS Support* in the PRS software. This ensures that the **Host IP Address** will be published every time an RF Class is started. Students running Virtual PRS for PDAs will *connect* to the RF Class. (Students using PRS RF Clickers *join* the Class.)

You will know that Virtual PRS Support has been enabled in PRS when the **Host IP Address** in angle brackets displays on the RF Status Bar next to the name of the Class. If an RF Receiver is attached to the classroom computer, another instance of the Class will display with the **Quick Jump** value in angle brackets for students using RF Clickers to join the Class.

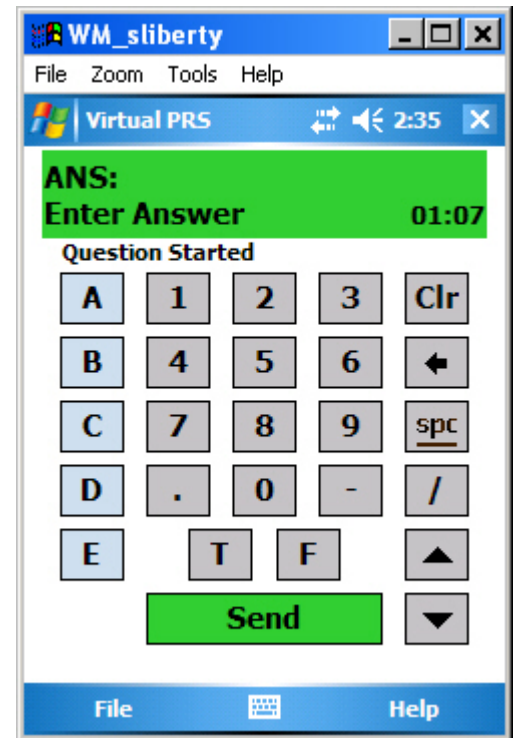
Virtual PRS Display

Keypad

Menu Bar












Virtual PRS interface before Connected



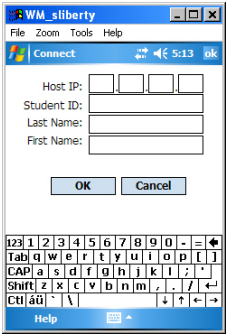
Virtual PRS interface after Connected with PRS Session started

The Virtual PRS for PDAs interface consists of the **Virtual PRS Display**, the **Keypad** and the **Menu Bar**. The top line of the Virtual PRS Display shows the **ANS** field. This is where the keys you tap, whether on the Keypad or the pop-up keyboard, will display. The bottom line of the Virtual PRS Display shows status messages. When a PRS Session is in progress, the Timer will display to the right of the status messages. Depending on the type of Session in progress, the Timer will show the amount of time left to answer the Question or the amount of time left in the Self Paced Session. Connection status shows below the Virtual PRS Display.

The Keypad has a full set of numeric keys, as well as the alpha keys **A** through **E** and **T** and **F**. **T** and **F** are used to respond to true/false questions, while the letters **A** through **E** are used when responding to lettered multiple choice questions. Additional keys include:

- | | | | |
|---|--------------------------------|--|--|
|  | Clear ANS field |  | Scroll Up to previous question (used during Self Paced Session) |
|  | Backspace one character |  | Scroll Down to next question (used during Self Paced Session) |
|  | Enter one space |  | Decimal Point |
|  | Forward Slash |  | Minus Sign |
|  | Send Answer | | |

Connect

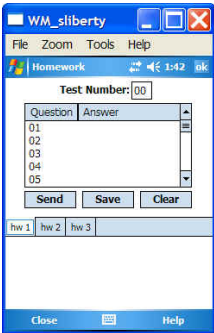


- 1 Start up Virtual PRS for PDAs by tapping the Virtual PRS icon in the **Programs** folder.
- 2 Pop-up the **File** menu and select the *Connect* option.
- 3 The first time Virtual PRS for PDAs tries to connect to PRS, the student will be prompted enter the **Host IP Address**, his **Student ID**, **Last Name**, and **First Name** in the **Connect** dialog. That information is retained, making subsequent connections easy. It will be just a matter of clicking on the **Connect** button, then clicking on the **OK** button to process the connection to the PRS Class. Nevertheless, students should be reminded to check the Host IP Address displayed in PRS against the one in their Virtual PRS Connect dialogs to make sure they are the same.
- 4 When you end the Class, remind students to click on the **Close** button in the upper right corner to exit Virtual PRS for PDAs.

Input and Send Answers

As Responses are entered by tapping on the Keypad keys, or popping up the keyboard to use it to enter the answers, they will display in the **ANS** field on the Virtual PRS Display. Status messages appear in the Display below the ANS field. Students should be instructed to tap the **Send** key to transmit answers to PRS.

Do Homework Assignment



Virtual PRS can store up to three homework assignments. Homework assignments are *collected* during a specially configured PRS Session. Students must be connected to the RF Class and you must have a Homework Collection Session started up before they can *Send* in their homework assignments.

- 1 Select the *Homework* option from the **File** menu.
- 2 Pop-up the keyboard.
- 3 Enter the *Test Number* of the homework assignment in the **Test Number** field to identify this homework assignment.
- 4 Tap on the number of the Question you are going to answer to highlight it. Type your answer to the Question.
- 5 Press the **Save** key, or tap on another Answer field to save your answer.
- 6 Click on the **OK** button to save the homework assignment. You can return to any of the homework assignments you have saved and continue answering questions or edit existing answers. The homework assignment will remain in place until you delete it by tapping on the **Clear** button.

Turn in Homework Assignment

Homework assignments are collected during a Homework Collection Session.

- 1 Connect to the Class.
- 2 Select the *Homework* option from the **File** menu.
- 3 Click on the Homework Tab of the assignment being collected.
- 4 Tap on the **Send** button to turn in your homework assignment when instructed to do so.

Help Menu

Help Topics

This Virtual PRS User's Guide and a number of Virtual PRS tutorials can be accessed by selecting this menu option.

About...

The *About* menu option displays software version and contact information.



Interwrite Learning
8224 East Evans Road
Scottsdale, AZ 85260
USA
TEL: 480.948.6540
SUPPORT: 480.443.2214
FAX: 480.948.5508

Interwrite Learning
7125 Riverwood Drive
Columbia, MD 21046
USA
TEL: 410.381.6688
FAX: 410.290.9065
SALES: 866.496.4949

Interwrite Learning, Inc.
A Division of GTCO CalComp GmbH
Kreiller Strasse 24
81673 Munich
Germany
TEL: +49 (0) 89 370012-0
FAX: +49 (0) 89 370012-12

www.InterwriteLearning.com

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