

This project will be based on program 2. You may make a copy of program 2 if you wish, but this will “wipe out” the control created in program 2. Only one of these controls can exist on a given system at one time. However, if you decide to create a new control from scratch, then they can both exist at the same time.

Perform the following test. Create a VB project, and add this control to it. DON'T RUN THE PROGRAM YET! Instead, change the Message Property in the VB Property window. Notice, that it changes right away in the VB Form display. Now run the program. What happened? The string you specified in the VB Property window went away, and you went back to the default value. Quit the program. Now the VB Property window has reverted to the default value. This is certainly not what we wanted! The reason this happened is that the property is not *persistent*. In this program, we will make the property persistent, and add it to a property sheet.

Complete the following steps:

1. Go to the DoPropExchange function of class CxCtrl, where *x* is the name of your project.
2. Add the following line to the end of this function.
`PX_String(pPX,"Message", m_message, CString("Default")) );`
3. The property is now persistent, but we need to add it to a property sheet. Fortunately, the property sheet has already been created for us, so we don't need to create a new one.
4. In the left-hand frame, choose the center tab, the resource view. Click on the + to display the different resource types, and on the + in front of Dialog to display the dialogs. Double-click on the line that begins with IDD_PROPPAGE. This will display the dialog editor.
5. Delete the TODO comment. Add a text-editor box and a comment. The comment should read “Message” and be above the text editor box. Make the text-editor box wide.
6. Right-Click on the editor box, and select “Properties.”
7. Change the name from IDC_EDIT1 to IDC_MESSAGE, and close the properties box.
8. Right-Click on the gray background of the box, and select “Class Wizard.”
9. Go to the second tab, *Member Variables*.
10. Click on the line containing IDC_MESSAGE, to make sure it is selected.
11. Click *Add Variable*.
12. In the *Member Variable Name*: box, type *m_message*. (The *m_* should already be there.)
13. In the *Optional Property Name*: box type *Message*.
14. Click OK, and then OK again.
15. Compile your project. Test the property page by clicking on the ... button of the (*custom*) property in the VB Property window.
16. In addition to “The Usual,” turn in printouts of the files *xPpg.cpp* and *xPpg.h*, where *x* is the name of your project.