Building a Custom Control

Add/Change Custom Property Dialog

The Add/Change Custom Property dialog box allows you to add
or change your property to the control.The controls for this
dialog are as follows:

Name:
Enter the name of the property here.   The
maximum length of this field is 80 characters.

Data Types Flags:
This group of check boxes allows you to select
the various Data types flags for the currently
property.If data type flag of property is Enum
then you can input the Enum List to the property.

Other Flags:
This group of check boxes allows you to select
the various other flags for the currently
property.
Default flags (GetData,SaveData,SetData,SetMsg)

Enum List:
This list-box displays a list of available items for
enumerated property.
To add a item in to list-box, press on Add button.
To change any item in list-box, select the item and
press on Change button.
To remove a item from the list-box, select the item and
press on Del button,the item will be removed.

OK:
Add custom property to your control.

Cancel:
Close **Add Custom Property Dialog**.

Help:
This button will display the **Add Custom Property Dialog** help topic.

Using VBX Wizard

VBX Wizard is a dialog box based application which consists of eight dialog boxes.   You maneuver through these dialog boxes to set the parameters that VBX Wizard will use to create the framework for your control.   The following topics cover each dialog box:

About VBX Wizard version 2.11

VBX Control Development Wizard was written by Eli and Dani Zeitlin.

You can register this program by sending US $70 and your address.
Address is:
    Eli and Dani Zeitlin
    6 Yehuda   Ha-Nasi St.
    Jerusalem Israel 93269
Tel: 972-2-793-895
Internet: sts@datasrv.co.il
Compuserve: 100274,1321

Introduction

VBX Wizard is a program, whose purpose is to simplify the development
of VBX controls using the VBApi   Unit or Libraray.VBX Wizard is not a code
generator in the traditional sense.   It is a tool that is
designed to create the framework of an application that creates
VBX controls using the VBApi Unit or Libraray.

When creating a VBX using VBApi Unit or Libraray, you create several
classes and map messages from both Borland Pascal for Windows or
Delphi or Visual C++ or Borland C++ and the WorkShop or AppStudio.
Additionally, you create dialogs and popup windows for a
complete VBX control.   VBX Wizard assists in this area by
generating class definitions, default class code, and default
message handlers for you on **Borland Pascal, Delphi,
Visual C++ or Borland C++**   language.

<u>Note:</u> When your VBX is completed, you must rename *.DLL file
to *.VBX file only in Borland Pascal, Borland C++ or Delphi.

VBX Wizard Project Dialog

The project dialog is where you provide the name and location
of your project.   This dialog has several controls.   They are as
follows:

File Name:
Enter the name of the project here.   You are limited to
the standard eight character limitation of Dos.   The
default extension of ".pas" or ".c" will be appended for you.

Directory:
This is a scrollable list-box that allows you to select the
directory and drive for the project.   When you change the
currently selected drive, the Directory list-box is
automatically updated with the contents of the selected
drive.

New Subdirectory:
This edit box lets you create a directory.
This directory becomes a subdirectory of the current directory
unless you specify a path.

Drives:
Open the list and then select the drive.

Create Resource File:
VBX Wizard generates a set of resource files that are
used to provide VBX Control.

Context Sensitive Help:
VBX Wizard generates a set of help files that are used to provide
context-sensitive help. Help support requires using the Help compiler,
which is provided with Borland Pascal, Delphi, Visual C++, Borland C++.

License Validation:
VBX Wizard inserts several function calls and generates a separate .LIC
file in Windows directory that supports licensing for your control.

Compiler:
The Compiler option tells the VBX Wizard
which compiler to save the source code of Control.

Next:
Control Options Dialog will be displayed when you
select this button.

Help:
This button will display the VBX Wizard Project Dialog help topic.

About:
This button will display the About Dialog.

Exit:
This button terminates the VBX Wizard application.

Add to Control Dialog

The Add to Control dialog box allows you to add a
properties, events, methods and messages, to
the control.The controls for this dialog
are as follows:

Properties:
This list-box displays a list of available properties for
your control.   Double click on the property to move
it to selected properties list-box.To remove a property
from the selected properties list-box,select the property
name and press on **Del** button,the property will be
removed.To add custom property press **Custom** Button,
it open Add Custom Property Dialog.

Events:
This list-box displays a list of available events for your
control.   Click on the event to select it.
To remove a event click on the event again,
the event will be unchecked.To add custom event press
Custom Button,it open Add Custom EventDialog.

Methods:
This list-box displays a list of available methods for your
control.   Click on the method to select it.
To remove a method click on the method again,
the event will be unselected.

Messages:
This list-box displays a list of available
messages to map for your control.   Double click
on the message to move it to selected messages list-box.
To remove a message from the selected messages list-box,
select the message name and press on Del button,
the message will be removed.
The Messages Types to View check boxes choose the
types of messages to view in Messages list-box.

Save:
This button instructs VBX Wizard to accept the
current project parameters and construct the
project.

Source:
This button will display the View Source Code Dialog

Set Prefs...:
This button will display the Control Preferences Dialog

Help:
This button will display the **Add to Control Dialog** help topic.

Prev:
This buton will display the Control Options Dialog and close **Add to Control Dialog.**

Exit:

This button terminates the VBX Wizard application.

Add Custom Event Dialog

The Add Custom Event dialog box allows you to add
your event to the control.The controls for this
dialog are as follows:

Name:
Enter the name of the event here.   The
maximum length of this field is 80 characters.

Parameters:
Enter Parameters for you event here...The
maximum length of this field is 255 characters.
Example for Parameters: x as integer,y as integer,l as long,s as string

NoUnload Flag (Only when Compiler selected to Pascal or Delphi)**:**
When this flag is set, it tells Visual Basic not
to allow unloading of the current form or any
control on the form, while the corresponding
event procedure is being fired.
The NoUnload flag is useful for events that
must assume that nothing is unloaded.

OK:
Add event to your control.

Cancel:
Close **Add Custom Event Dialog**.

Help:
This button will display the **Add Custom Event Dialog** help topic.

Control Preferences Dialog

The Control Preferences dialog box allows you to set
control preferences.The controls for this
dialog are as follows:

Default Size:
Sets default size for a control in pixels.
This size is used when a control is created by
double-clicking on a control in the Toolbox window.

Files:
Select the files you want to copy into your project directory.

Default Property:
Name of property that is the default property value for the control.
Setting this box to **(none)** indicates no default property value.
Example: If a control is created, with the name property set to Circle1,
and the default property is set to Caption,
then the following code (**Visual Basic**):
    Circle1 = "hello"
means
    Circle1.Caption = "hello"

Default Event:
Name of default event in Code window.

OK:
Close the **Control Preferences Dialog** and return to Add to Control Dialog.

Cancel:
Close the **Control Preferences Dialog** and return to Add to Control Dialog**.**

Help:
This button will display the **Control Preferences Dialog** help topic.

View Source Code Dialog

The View Source Code dialog box allows you to view
files of project.The controls for this dialog are as follows:

FileName:
Select the file name to view in edit widnow.

Cancel:

Close the **View Source Code Dialog** and return to Add to Control Dialog.

Copy:
Copies text from a edit window onto the Clipboard,
leaving the original intact and replacing the previous Clipboard contents.

Help:
This button will display the View Source Code Dialog help topic.

Control Options Dialog

The Control Options dialog box allows you to select a Name,
Default Window Style, Version, Model flags and Class Style, to
the control.The controls for this dialog
are as follows:

Control Name:
Enter the name of the control here.   The
maximum length of this field is 255 characters.

Parent Class:
This is a dropdown combo box that allows you
 select from one of the standard windows
controls as the superclass of your control.
Default Window Style list-box is automatically updated with
the contents of the selected parent class.

Default Window Style:
The style of window being created.

Version:
This radio button allows you to select the version of
Visual Basic that the control will be developed for.
Current options are limited to the usVersion variable in the
CDK.

Model Flags:
This list box allows you to select the various
model flags for the control.

Class Style:
This list box allows you to select the various
class flags for the control.

Next:
Add to Control Dialog will be displayed when you
select this button.

Prev:
This button will display the VBX Wizard Project Dialog.and
close **Control Option Dialog.**

Help:
This button will display the Control Options Dialog help topic.

Exit:
This button terminates the VBX Wizard application.

Add/Change item to Enum List Dialog

The Add/Change item to Enum List dialog box allows you to add
or change your item in enum property.The controls for this
dialog are as follows:

Index:
Show the index of the item that you change or add.

Text:
Enter the text of the item here.   The
maximum length of this field is 32 characters.

OK:
Add item to enum list of your custom property
and close **Add/Change item to Enum List Dialog**.

Cancel:
Close **Add/Change item to Enum List Dialog**.

Help:
This button will display the **Add/Change item to Enum List Dialog** help topic.