The Standard in Industrial Automation and Scientific Components for Real-Time Applications

Covers
Microsoft VS2003 & VS2005
Borland Delphi 2005 & BDS2006

Getting Started Manual
(Iocomp .NET Version)
Acknowledgements

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Chapter 1 – Introduction

Welcome to Iocomp .NET Components Version 3.0, including high-speed, easy to use components not found in many other .NET component packages.

Iocomp Software is committed to providing reliable, feature rich components that will enhance your automation, scientific, and instrumentation programming projects. They’re ideally suited for real-time applications where speed is of the utmost importance while maintaining an easy-to-use, professional, polished user interface.

Key Features
Iocomp Components have been designed to provide a rich, stable, and robust set of features to simplify your program designs. Here is a list of our key features…

- High Speed for Real-Time Applications
- Vector-based graphics for greater design flexibility
- Custom Property Editors
- And Much More…

System Requirements
- *Windows*: 32-Bit or 64-Bit Microsoft Windows System (Windows 95, 98, ME, NT4SP3, 2000, XP, Vista, or higher versions)

Getting Help
There are several ways for you to obtain help on using Iocomp Components in your programming task.

Getting Started Guide
This guide is intended to provide basic information about using the Iocomp components for beginning developers, bringing them up-to-speed quickly.

Help Files
These files are intended to provide immediate assistance during your programming task. Many development environments support \[\text{F1}\] and context-sensitive help simply by highlighting a component, code property, or code method and pressing the \[\text{F1}\] key, which will result in opening our Help Files which provide complete documentation concerning all properties, methods, and events of our components including syntax examples.

Example Source Code Projects
Our website distributions contain many different examples of using our components in popular programming environments such as Microsoft VS2003 and VS2005 as well as Borland Delphi 2005 and BDS2006. Each example covers aspects of a particular component, covers in-depth usage of a particular component feature, or covers a wide range of features and components.

Contacting Iocomp Software
You can always contact Iocomp Software support staff directly for assistance with our software products at the following telephone numbers and Internet addresses…

- USA & Canada Toll Free Telephone: 888-599-2929
- Customer Support Email: support@iocomp.com
- Customer Support Website: [http://www.iocomp.com/support](http://www.iocomp.com/support)
Chapter 2 – Installation

CD-ROM Installation
- Insert the CD-ROM into your CD-ROM drive. The installation should start automatically if you have the AutoRun option turned ON, otherwise you may need to manually run the SETUP.EXE program located in the root of the CD-ROM.
- Select a directory to install the Iocomp Component products.
- When prompted for your registration information, fill in the appropriate information.
- Full Product Only: If you are installing our fully purchased product, enter the keycode or keycodes that were provided with your Software. Keycodes will unlock the software contained in the installer. Please keep this number in a safe place as you will need it for future installations/updates and when contacting us for Technical Support. If you are installing a product upgrade, you will need to enter your upgraded product keycode (the old keycode) first before you can enter the upgrade keycode.

Electronic Delivery Installation
- Run the single-file setup program that you downloaded from your online merchant. If prompted to overwrite files, always say yes. This will overwrite any older installation files from previous versions of Iocomp Components and ensure that your files are up-to-date.
- Select a directory to install the Iocomp Component products.
- Full Product Only: If you are installing our fully purchased product, enter the keycode or keycodes that were provided with your Software. Keycodes will unlock the software contained in the installer. Please keep this number in a safe place as you will need it for future installations/updates and when contacting us for Technical Support. If you are installing a product upgrade, you will need to enter your upgraded product keycode (the old keycode) first before you can enter the upgrade keycode.
- When you are prompted to register, fill in the appropriate information.

Service Pack Updates
Iocomp will periodically release Service Pack releases of our products to provide you with the latest feature enhancements and bug fixes that we may include with our software. Service Packs are provided free of charge. You can always find a list of Service Packs available at our website:
http://www.iocomp.com/downloads

EvaluationNote: if you are using our evaluation version, you can simply uninstall our evaluation, download the latest evaluation from our website, and then re-install the evaluation to upgrade to the latest service pack version.

Product Upgrades and New Products
Iocomp will periodically release Major Upgrades (approximately every 1.5 years) to our existing lines of products as well as New Products. You can always find a list of Upgrades and New Products available at our website:
http://www.iocomp.com/products

EvaluationNote: if you are using our evaluation version, you can simply uninstall our evaluation, download the latest evaluation from our website, and then re-install the evaluation to upgrade to the latest service pack version.

Beta Versions
Between Service Packs, we may identify an important bug fix or may just want to make a new feature of our component available to our customers as quickly as possible. These types of updates are generally not 100% tested as our Service Packs, so you should consider these types of updates as "beta" quality updates. After a Service Pack is released, all of the Beta Versions are removed from our servers as the updates in these Beta Versions are always rolled into the latest Service Pack release. You can find a list of Beta versions for our full product and evaluation versions available at our website:
http://www.iocomp.com/downloads
Windows Start Menu
The following links are provided in the Start Menu/Programs/Iocomp folder that is created after installation…

- Help Files
- Component Directory
- Iocomp Tools (iLCDMatrix Font Editor, MSDN Help Integrator, etc.)
- Iocomp Web Links
- Release Notes
- Installation Notes

To Open the Iocomp Start Menu, click on your START button, then select All Programs (sometimes called "Programs" on some operating systems), and then click on "Iocomp", as shown in FIGURE 2.1…

Uninstall
You can completely remove the components or other Iocomp products by running the Iocomp installer from the Add/Remove control panel, as shown in FIGURE 2.2. You may need to manually remove any of our ActiveX components or other files that you may have installed by yourself into other directories on your system.

FIGURE 2.1
Iocomp Start Menu Items and Shortcuts.

FIGURE 2.2
The Add/Remove Control Panel Applet.
Open the Add/Remove Control Panel to modify, repair, or remove products installed on your computer.
Tutorial
Open VS2003 and select File/New/Project. From the menu, select “Visual C# Projects” and then create a "Windows Application" as shown in FIGURE 3.1. Click on the OK button to close the dialog.

FIGURE 3.1
To create a new project, select "New Project" from the File menu, select "Windows Application", and then press OK.

Open the Toolbox and select the Iocomp Tab as shown in FIGURE 3.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix A, (Manually Adding Controls VS2003)

FIGURE 3.2
Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 3.3.

![FIGURE 3.3](image)

**FIGURE 3.3**
Double-click "GaugeAngular" to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 3.4.

![FIGURE 3.4](image)

**FIGURE 3.4**
To open the GaugeAngular Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 3.5 and Press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 3.5](image)

**FIGURE 3.5**
View of the Control Property Editor Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 3.6.

![Figure 3.6](image1)

**FIGURE 3.6**
Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 3.7 to set the **Value** property on the **GaugeAngular** as a double.

![Figure 3.7](image2)

**FIGURE 3.7**
Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** control on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 3.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

```csharp
private void gaugeAngular_ValueChanged(object sender, Iocomp.EventArgs.ValueChangedEventArgs e)
{
    caption.Text = gaugeAngular.Value.ToString();
}
```

Press the F5 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 3.9.

**FIGURE 3.8**
View of the C# code setting the caption on the form to the value of the GaugeAngular on ValueChanged.

**FIGURE 3.9**
View of the program form before and after the GaugeAngular ValueChanged event.

**Accessing Help**
Place your mouse cursor over the **Value** property in the code window and then press F1. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press F1 to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 3.10.

**FIGURE 3.10**
Make sure you have selected “no Filter” to access Iocomp help.
Tutorial
Open VS2003 and select File/New/Project. From the menu, select “Visual Basic Projects” and then create a "Windows Application" as shown in FIGURE 4.1. Click on the OK button to close the dialog.

To create a new VB project, select "New/Project" from the File menu, and then select the "Windows Application" template from the "Visual Basic Projects" folder.

Open the Toolbox and select the Iocomp Tab as shown in FIGURE 4.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix A. (Manually Adding Controls VS2003)

Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 4.3.

![FIGURE 4.3](image)

Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 4.4.

![FIGURE 4.4](image)

To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 4.5 and Press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 4.5](image)

View of the Custom Property Editor Control Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 4.6.

![FIGURE 4.6](image1)

Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 4.7 to set the **Value** property on the **GaugeAngular** as a double.

![FIGURE 4.7](image2)

Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 4.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

![FIGURE 4.8](image)

Press the F5 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 4.9.

![FIGURE 4.9](image)

**Accessing Help**
Place your mouse cursor over the **Value** property in the code window and then press F1. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press F1 to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 4.10.

![FIGURE 4.10](image)
Chapter 5 – Getting Started VS2003 C++

Tutorial
Open VS2003 and select File/New/Project. From the menu, select “Visual C++ Projects” and then create a "Windows Forms Application (.NET)" as shown in FIGURE 5.1. Click on the OK button to close the dialog.

FIGURE 5.1
To create a new C++ project, select "New/Project" from the File menu, and then select the "Windows Forms Application (.NET)" template from the "Visual C++ Projects" folder.

FIGURE 5.2
Open the Toolbox and select the Iocomp Tab as shown in FIGURE 5.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix A, (Manually Adding Controls VS2003)

FIGURE 5.2
Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 5.3.

![FIGURE 5.3](image)

Double-click “**GaugeAngular**” to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 5.4.

![FIGURE 5.4](image)

To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 5.5 and Press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 5.5](image)

View of the Control Property Editor Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 5.6.

Double-click the button on the form to bring up the **Click** event handler for the button.
Add the code as shown in FIGURE 5.7 to set the **Value** property on the **GaugeAngular** as a double.

---

**FIGURE 5.6**
Add a button to your form.

**FIGURE 5.7**
Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** control on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 5.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

![FIGURE 5.8](image)

View of the C++ code setting the caption on the form to the value of the GaugeAngular on ValueChanged.

Press the F5 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 5.9.

![FIGURE 5.9](image)

View of the program form before and after the **GaugeAngular ValueChanged** event.

**Accessing Help**

Place your mouse cursor over the **Value** property in the code window and then press F1. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press F1 to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the Index window to access Iocomp help as shown in FIGURE 5.10.

![FIGURE 5.10](image)

Make sure you have selected “no Filter” to access Iocomp help
Tutorial
Open VS2005 and select File/New/Project. From the menu, select “Visual C#/Windows” and then create a "Windows Application" as shown in FIGURE 6.1. Click on the OK button to close the dialog.

FIGURE 6.1
To create a new project, select "New Project" from the File menu, select "Windows Application", and then press OK.

Open the Toolbox and select the Iocomp Tab as shown in FIGURE 6.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix B. (Manually adding controls VS2005)

FIGURE 6.2
Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 6.3.

![FIGURE 6.3](image)

**FIGURE 6.3**
Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 6.4.

![FIGURE 6.4](image)

**FIGURE 6.4**
To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 6.5 and press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 6.5](image)

**FIGURE 6.5**
View of the Control Property Editor Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 6.6.

![Figure 6.6](image1)

**FIGURE 6.6**
Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 6.7 to set the **Value** property on the **GaugeAngular** as a double.

![Figure 6.7](image2)

**FIGURE 6.7**
Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 6.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

Press the F5 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 6.9.

**Accessing Help**
Place your mouse cursor over the **Value** property in the code window and then press `F1`. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press `F1` to open the overall help topic for the **GaugeAngular** component. Note to select “unfiltered” in the search window to access Iocomp help as shown in FIGURE 6.10.

** FIGURE 6.8**
View of the C# code setting the caption on the form to the value of the GaugeAngular on ValueChanged.

** FIGURE 6.9**
View of the program form before and after the GaugeAngular ValueChanged event.

** FIGURE 6.10**
Make sure you have selected “unfiltered” to access Iocomp help.
Chapter 7 – Getting Started with VS2005 VB.NET

Tutorial
Open VS2005 and select File/New/Project. From the menu, select “Visual Basic Projects” and then create a "Windows Application" as shown in FIGURE 7.1. Click on the OK button to close the dialog.

FIGURE 7.1
To create a new VB project, select "New/Project" from the File menu, and then select the "Windows Application" template from the "Visual Basic Projects" folder.

Open the Toolbox and select the Iocomp Tab as shown in FIGURE 7.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix B. (Manually Adding Controls VS2005)

FIGURE 7.2
Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 7.3.

![FIGURE 7.3](image1.png)

**FIGURE 7.3**
Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select **"Editor (Custom)"** as shown in FIGURE 7.4.

![FIGURE 7.4](image2.png)

**FIGURE 7.4**
To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select **"Editor (Custom)"**.

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 7.5 and Press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 7.5](image3.png)

**FIGURE 7.5**
View of the Custom Property Editor Control Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 7.6.

![FIGURE 7.6](image)

Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 7.7 to set the **Value** property on the **GaugeAngular** as a double.

![FIGURE 7.7](image)

Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the GaugeAngular on your form to connect an event handler to the default event, which is ValueChanged. Add the code as shown in FIGURE 7.8 to set the caption on the form to the value of the GaugeAngular on the ValueChanged event.

Press the F5 button to execute the program. When the button on the dialog is clicked, the Value property of the GaugeAngular component is set to 75. When the Value property is changed, the ValueChanged event fires. That event then sets the caption of the form to the Value property of the GaugeAngular component as shown in FIGURE 7.9.

Accessing Help
Place your mouse cursor over the Value property in the code window and then press F1. This will open the Iocomp help on the Value property of the GaugeAngular component. Select the GaugeAngular component on the form and then press F1 to open the overall help topic for the GaugeAngular component. Note to select “unfiltered” in the search window to access Iocomp help as shown in FIGURE 7.10.
Tutorial
Open VS2005 and select File/New/Project. From the menu, select “Visual C++/CLR” and then create a "Windows Forms Application" as shown in FIGURE 8.1. Click on the OK button to close the dialog.

FIGURE 8.1
To create a new C++ project, select "New/Project" from the File menu, and then select the "Windows Forms Application" template from the "Visual C++/CLR" folder.

Open the Toolbox and select the Iocomp Tab as shown in FIGURE 8.2. Note: If the Iocomp tab does not appear in the toolbox, see Appendix B. (Manually Adding Controls VS2005)

FIGURE 8.2
Expand the Iocomp tab in the toolbox to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 8.3.

![FIGURE 8.3](image)

**FIGURE 8.3**
Double-click “GaugeAngular” to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 8.4.

![FIGURE 8.4](image)

**FIGURE 8.4**
To open the **GaugeAngular** Component's Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 8.5 and Press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 8.5](image)

**FIGURE 8.5**
View of the Control Property Editor Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 8.6.

![FIGURE 8.6](image)

Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 8.7 to set the **Value** property on the **GaugeAngular** as a double.

![FIGURE 8.7](image)

Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 8.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

Press the F5 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 8.9.

**Accessing Help**

Place your mouse cursor over the **Value** property in the code window and then press F4. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press F1 to open the overall help topic for the **GaugeAngular** component. Note to select “unfiltered” in the Index window to access Iocomp help as shown in FIGURE 8.10.

**FIGURE 8.8**  
View of the C++ code setting the caption on the form to the value of the GaugeAngular on ValueChanged.

**FIGURE 8.9**  
View of the program form before and after the GaugeAngular ValueChanged event.

**FIGURE 8.10**  
Make sure you have selected “unfiltered” to access Iocomp help.
Chapter 9 – Getting Started with Delphi 2005 Delphi.NET

Tutorial

Note: If you have not already, you must first manually add Iocomp controls to your Tool Palette using the procedure described in Appendix C (Manually Adding Controls Delphi2005)

Open Delphi 2005 and click “New” on the Welcome Page. From the menu, select “Delphi for .NET Projects” and then create a "Windows Forms Application" as shown in FIGURE 9.1. Click on the OK button to close the dialog.

FIGURE 9.1
To create a new project, click "New" from the Delphi 2005 Welcome Page. On the New Items menu, select "Delphi for .NET Projects"/ Windows Forms Application and then press OK.

Open the Tool Palette and expand the Iocomp Tab as shown in FIGURE 9.2.

FIGURE 9.2
Expand the Iocomp tab in the tool palette box to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 9.3.

**FIGURE 9.3**
Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 9.4.

**FIGURE 9.4**
To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".
On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 9.5 and press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

Insert a standard **Button** onto your dialog, as shown in FIGURE 9.6.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 9.7 to set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 9.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

![Project1 - Delphi.NET 2005 - WinForm](image)

```delphi
procedure TForm1.GaugeAngular1_ValueChanged(sender: System.Object; e: IObject);
begin
  Caption := GaugeAngular1.Value.AsDouble.ToString;
end;

procedure TForm1.Button1_Click(sender: System.Object; e: System.EventArgs);
begin
  GaugeAngular1.Value.AsDouble := 75;
end;
```

Press the F9 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 9.9.

![GaugeAngular Value Changed](image)

**Accessing Help**

Place your mouse cursor over the **Value** property in the code window and then press \F1\. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press \F1\ to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 9.10.

![Microsoft Document Explorer - GaugeAngular](image)

**FIGURE 9.8**

View of the Delphi.NET code setting the caption on the form to the value of the **GaugeAngular** on **ValueChanged**.

**FIGURE 9.9**

View of the program form before and after the **GaugeAngular** **ValueChanged** event.

**FIGURE 9.10**

Make sure you have selected “no filter” to access Iocomp help.
Tutorial

Note: If you have not already, you must first manually add Iocomp controls to your Tool Palette using the procedure described in Appendix C (Manually Adding Controls Delphi 2005)

Open Delphi 2005 and click “New” on the Welcome Page. From the menu, select “C# Projects” and then create a "Windows Forms Application" as shown in FIGURE 10.1. Click on the OK button to close the dialog.

![FIGURE 10.1](image1)

To create a new project, click "New" from the Delphi 2005 Welcome Page. On the New Items menu, select "C# Projects"/Windows Forms Application and press OK.

Open the Tool Palette and expand the Iocomp Tab as shown in FIGURE 10.2.

![FIGURE 10.2](image2)

Expand the Iocomp tab in the tool palette to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 10.3.

![FIGURE 10.3](image)

Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 10.4.

![FIGURE 10.4](image)

To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".

On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 10.5 and press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 10.5](image)

View of the Control Property Editor Tab.
Insert a standard **Button** onto your dialog, as shown in FIGURE 10.6.

![FIGURE 10.6
Add a button to your form.](image)

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 10.7 to set the **Value** property on the **GaugeAngular** as a double.

![FIGURE 10.7
Set the **Value** property on the **GaugeAngular** as a double.](image)

Double-Click the **GaugeAngular** control on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 10.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

![FIGURE 10.8
View of the C# code setting the caption on the form to the value of the **GaugeAngular** on **ValueChanged**.](image)
Press the F9 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 10.9.

![FIGURE 10.9](image)

**FIGURE 10.9**
View of the program form before and after the **GaugeAngular** **ValueChanged** event.

### Accessing Help

Place your mouse cursor over the **Value** property in the code window and then press `F1`. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press `F1` to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 10.10.

![FIGURE 10.10](image)

**FIGURE 10.10**
Make sure you have selected “no filter” to access Iocomp help.
Tutorial

Note: If you have not already, you must first manually add Iocomp controls to your Tool Palette using the procedure described in Appendix D (Manually Adding Controls BDS2006)

Open BDS2006 and click “New” on the Welcome Page. From the menu, select “Delphi for .NET Projects” and then create a "Windows Forms Application" as shown in FIGURE 11.1. Click on the OK button to close the dialog.

![FIGURE 11.1](image)

To create a new project, click "New" from the BDS2006 Welcome Page. On the New Items menu, select "Delphi for .NET Projects"/Windows Forms Application and then press OK.

Open the Tool Palette and expand the Iocomp Tab as shown in FIGURE 11.2.

![FIGURE 11.2](image)

Expand the Iocomp tab in the tool palette box to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 11.3.

![Double-click GaugeAngular to place the control on your form.](image)

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 11.4.

![Right-click on the component and select "Editor (Custom)".](image)

**FIGURE 11.3**

Double-click **GaugeAngular** to place the control on your form.

**FIGURE 11.4**

To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".
On the "Control" tab, change the **Value** property to "50" as shown in FIGURE 11.5 and press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

![FIGURE 11.5](image)

**FIGURE 11.5**
View of the Control Property Editor Tab.

Insert a standard **Button** onto your dialog, as shown in FIGURE 11.6.

![FIGURE 11.6](image)

**FIGURE 11.6**
Add a button to your form.

Double-click the button on the form to bring up the **Click** event handler for the button. Add the code as shown in FIGURE 11.7 to set the **Value** property on the **GaugeAngular** as a double.

![FIGURE 11.7](image)

**FIGURE 11.7**
Set the **Value** property on the **GaugeAngular** as a double.
Double-Click the **GaugeAngular** on your form to connect an event handler to the default event, which is **ValueChanged**. Add the code as shown in FIGURE 11.8 to set the caption on the form to the value of the **GaugeAngular** on the **ValueChanged** event.

![FIGURE 11.8](image1)

Press the F9 button to execute the program. When the button on the dialog is clicked, the **Value** property of the **GaugeAngular** component is set to 75. When the **Value** property is changed, the **ValueChanged** event fires. That event then sets the caption of the form to the **Value** property of the **GaugeAngular** component as shown in FIGURE 11.9.

![FIGURE 11.9](image2)

**Accessing Help**

Place your mouse cursor over the **Value** property in the code window and then press F1. This will open the Iocomp help on the **Value** property of the **GaugeAngular** component. Select the **GaugeAngular** component on the form and then press F1 to open the overall help topic for the **GaugeAngular** component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 11.10.

![FIGURE 11.10](image3)
Tutorial

Note: If you have not already, you must first manually add Iocomp controls to your Tool Palette using the procedure described in Appendix D (Manually Adding Controls BDS2006)

Open BDS2006 and click “New” on the Welcome Page. From the menu, select “C# Projects” and then create a "Windows Forms Application" as shown in FIGURE 12.1. Click on the OK button to close the dialog.

FIGURE 12.1
To create a new project, click "New" from the BDS2006 Welcome Page. On the New Items menu, select "C# Projects"/ Windows Forms Application and press OK.

Open the Tool Palette and expand the Iocomp Tab as shown in FIGURE 12.2.

FIGURE 12.2
Expand the Iocomp tab in the tool palette to reveal controls.
Scroll down the list and find **GaugeAngular**. Double-clicking this icon will place the control on your form at the default size as shown in FIGURE 12.3.

**FIGURE 12.3**
Double-click **GaugeAngular** to place the control on your form.

Right-click on the component and select "**Editor (Custom)**" as shown in FIGURE 12.4.

**FIGURE 12.4**
To open the **GaugeAngular** Component’s Custom Property Editor, right-click on the component and select "**Editor (Custom)**".
Chapter 12 – Getting Started with BDS2006 C#

On the "Control" tab, change the Value property to "50" as shown in FIGURE 12.5 and press the OK button. Notice that the pointer of the gauge moves to 50 on the scale.

Insert a standard Button onto your dialog, as shown in FIGURE 12.6.

Double-click the button on the form to bring up the Click event handler for the button. Add the code as shown in FIGURE 12.7 to set the Value property on the GaugeAngular as a double.
Double-Click the GaugeAngular on your form to connect an event handler to the default event, which is ValueChanged. Add the code as shown in FIGURE 12.8 to set the caption on the form to the value of the GaugeAngular on the ValueChanged event.

Press the F9 button to execute the program. When the button on the dialog is clicked, the Value property of the GaugeAngular component is set to 75. When the Value property is changed, the ValueChanged event fires. That event then sets the caption of the form to the Value property of the GaugeAngular component as shown in FIGURE 12.9.

Accessing Help
Place your mouse cursor over the Value property in the code window and then press F1. This will open the Iocomp help on the Value property of the GaugeAngular component. Select the GaugeAngular component on the form and then press F1 to open the overall help topic for the GaugeAngular component. Note to select “no filter” in the search window to access Iocomp help as shown in FIGURE 12.10.
Chapter 13 – Obtaining Additional Assistance

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Appendix A – Manually Adding Controls VS2003

If, for any reason, you want to manually add Iocomp controls to the VS2003 toolbox:

- You chose not to integrate during install
- There was an integration error during install
- Iocomp controls have been removed
- You wish to add separate tabs for multiple Iocomp versions

Please use the following steps.

Open your project, right-click within the empty grey area at the bottom of the toolbox and select “Add Tab” as shown in FIGURE A.1. Name the tab, Iocomp in this example, and press Enter.

Right-click the newly created tab and select “Add/Remove Items” as shown in FIGURE A.2.
In the Customize Toolbox window, click “Browse” as shown in FIGURE A.3.

![Customize Toolbox window](image)

**FIGURE A.3**
Browse component libraries to add.

Navigate to the location of the Iocomp product installation and, if more than one version is installed, double-click the version you would like to use as shown in FIGURE A.4. Unless you chose an alternate location during install, the default path is: C:\Program Files\Iocomp\Product\.Net\WinForms\Instrumentation.

![Choose version](image)

**FIGURE A.4**
Choose the version of Iocomp controls you would like to use if more than one is installed.

Depending on your Iocomp product, one or more libraries will appear within the version you selected as shown in FIGURE A.5. From this window, double-click the library you want to integrate with your toolbox.

Note: Do not attempt to integrate Iocomp.Instrumentation.WF.Common.dll as this contains no components.

![Library selection](image)

**FIGURE A.5**
Depending on your Iocomp product, one or more component libraries will be available.
Once you have double-clicked the library you want to integrate, as described above, you will be returned to the Customize Toolbox window as shown in FIGURE A.6. All components contained within the selected library, in this case the Plot, will be automatically highlighted. **STOP!** Press the **Spacebar** to toggle all check boxes for highlighted controls “on.” Clicking on a highlighted area in this window will de-select the remaining controls in the library and they will not be added. Note: If you are integrating more than one library, click “**Browse**” again at this point and repeat the above steps until all the desired components are selected. Click “**OK**” when finished.

When all desired libraries have been integrated, expand the Iocomp tab in your VS2003 toolbox to expose all available Iocomp controls as shown in FIGURE A.7.
Appendix B – Manually Adding Controls VS2005

If, for any reason, you want to manually add Iocomp controls to the VS2005 toolbox:

- You chose not to integrate during install
- There was an integration error during install
- Iocomp controls have been removed
- You wish to add separate tabs for multiple Iocomp versions

Please use the following steps.

Open your project, right-click within the empty grey area at the bottom of the toolbox and select “Add Tab” as shown in FIGURE B.1. Name the tab, Iocomp in this example, and press Enter.

![FIGURE B.1](image)
Add a new tab to the VS2005 Toolbox

Right-click the newly created tab and select “Choose Items” as shown in FIGURE B.2.

![FIGURE B.2](image)
Add or remove items associated with a tab in the VS2005 Toolbox
In the Choose Toolbox Items window, click “Browse” as shown in FIGURE B.3.

![FIGURE B.3](image)

Browse component libraries to add.

Navigate to location of the Iocomp product installation and, if more than one version is installed, double-click the version you would like to use as shown in FIGURE B.4. Unless you chose an alternate location during install, the default path is: C:\Program Files\Iocomp\Product.Net\WinForms2005\Instrumentation.

![FIGURE B.4](image)

Choose the version of Iocomp controls you would like to use if more than one is installed.

Depending on your Iocomp product, one or more libraries will appear within the version you selected as shown in FIGURE B.5. From this window, double-click the library you want to integrate with your toolbox.

Note: Do not attempt to integrate Iocomp.Instrumentation.WF.Common.dll as this contains no components.

![FIGURE B.5](image)

Depending on your Iocomp product, one or more component libraries will be available.
Once you have double-clicked the library you want to integrate, as described above, you will be returned to the Choose Toolbox Items window as shown in FIGURE B.6. All components contained within the selected library, in this case the Plot, will be automatically highlighted and selected for placement in the toolbox. If they are not checked for inclusion, do not click the highlighted area within the window as this will de-select the remaining controls in the library. Press the Spacebar to toggle all highlighted check boxes “on.” Note: If you are integrating more than one library, click “Browse” again at this point and repeat the above steps until all the desired components are selected. Click “OK” when finished.

When all desired libraries have been integrated, expand the Iocomp tab in your VS2005 toolbox to expose all available Iocomp controls as shown in FIGURE B.7.
Manually add Iocomp controls to the Delphi 2005 Tool Palette using the following procedure.

Open your project, right-click within the empty grey area of the tool palette and select “Installed .NET Components” as shown in FIGURE C.1.

In the Installed .NET Components window, the category text box will default to “General.” Select this text and replace it with “Iocomp.” Click “Select an Assembly” to proceed as shown in FIGURE C.2.
Appendix C – Manually Adding Controls Delphi 2005

Navigate to the location of the Iocomp product installation and select the WinForms folder as shown in FIGURE C.3. Unless you chose an alternate location during install, the default path to this point is: C:\ProgramFiles\Iocomp\Product\.Net\xxx
Once you have opened the WinForms folder, double-click Instrumentation. Note: The WinForms2005 folder is for VS2005 or the .NET 2.0 WinForms framework.

Within the Instrumentation folder, if more than one version is installed, double-click the version you would like to integrate with your “Iocomp” category in the Delphi 2005 Tool Palette as shown in FIGURE C.4

FIGURE C.3
Choose the WinForms folder for compatibility with the .NET 1.1 WinForms framework.

FIGURE C.4
Choose the version of Iocomp controls you would like to use if more than one is installed.
Depending on your Iocomp product, one or more library will appear as shown in FIGURE C.5. Double-click any single library you want to integrate with your tool palette or you may hold the Shift or Ctrl keys to select a range of or multiple libraries respectively. If you have selected multiple library(s), click Open to proceed. Note: Do not attempt to integrate Iocomp.Instrumentation.WF.Common.dll as this contains no components.  

FIGURE C.5  
Depending on your Iocomp product, one or more component libraries will be available.

You will be returned to the Installed .NET Components window as shown in FIGURE C.6. All components contained within the selected library(s) will be automatically selected for placement in the Iocomp category of the Delphi2005 tool palette. Click “OK” to finish.  

FIGURE C.6  
All components contained within the selected library(s) will be automatically selected for placement in the Iocomp category of the Delphi 2005 tool palette. Click “OK” to finish.

When all desired libraries have been integrated, expand the Iocomp category in your Delphi 2005 toolbox to expose all available Iocomp controls as shown in FIGURE C.7.  

FIGURE C.7  
View of Delphi 2005 tool palette with Iocomp category and available components.
Appendix D – Manually Adding Controls BDS2006

Manually add Iocomp controls to the BDS2006 Tool Palette using the following procedure.

Open your project, right-click within the empty grey area of the tool palette and select “Installed .NET Components” as shown in FIGURE D.1.

![FIGURE D.1](image)

Right-click the Tool Palette and select “Installed .NET Components.”

In the Installed .NET Components window, the category text box will default to “General.” Select this text and replace it with “Iocomp.” Click “Select an Assembly” to proceed as shown in FIGURE D.2.

![FIGURE D.2](image)

Name the category you wish to create and click “Select an Assembly.”
Navigate to the location of the Iocomp product installation and select the WinForms folder as shown in FIGURE D.3. Unless you chose an alternate location during install, the default path to this point is: `C:\ProgramFiles\Iocomp\Product\.Net\xxx`

Once you have opened the WinForms folder, double-click Instrumentation. Note: The WinForms2005 folder is for VS2005 or the .NET 2.0 WinForms framework.

**FIGURE D.3**
Choose the WinForms folder for compatibility with the .NET 1.1 WinForms framework.

Within the Instrumentation folder, if more than one version is installed, double-click the version you would like to integrate with your “Iocomp” category in the BDS2006 Tool Palette as shown in FIGURE D.4

**FIGURE D.4**
Choose the version of Iocomp controls you would like to use if more than one is installed.
Depending on your Iocomp product, one or more library will appear as shown in FIGURE D.5. Double-click any single library you want to integrate with your tool palette or you may hold the Shift or Ctrl keys to select a range of or multiple libraries respectively. If you have selected multiple library(s), click Open to proceed. Note: Do not attempt to integrate Iocomp.Instrumentation.WF.Common.dll as this contains no components.

FIGURE D.5
Depending on your Iocomp product, one or more component libraries will be available.

You will be returned to the Installed .NET Components window as shown in FIGURE D.6. All components contained within the selected library(s) will be automatically selected for placement in the Iocomp category of the BDS2006 tool palette. Click “OK” to finish.

FIGURE D.6
All components contained within the selected library(s) will be automatically selected for placement in the Iocomp category of the BDS2006 tool palette. Click “OK” to finish.

When all desired libraries have been integrated, expand the Iocomp category in your BDS2006 toolbox to expose all available Iocomp controls as shown in FIGURE D.7.

FIGURE D.7
View of BDS2006 tool palette with Iocomp category and available components.
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