RIDComp unit

This unit is for the Report Interface Designer Delphi 2.0/3 component.

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TErrorEvent

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Action Constants used in the OnAction event:

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TRIDComp component

Unit
RIDComp

Description
TRIDComp is the Report Interface Designer "design-time"component for the Borland Delphi development environment. It provides a programmatic link between Delphi 2.0/3, Report Interface Designer, and Seagate Crystal Reports.

To use this component, just select from the palette and drop onto the main form of your application.

Many of the properties and functionality can be tested at design-time. Set the DDFName property with an appropriate value then activate the Preview property. Preview will call the Execute method to display the RID dialog.

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About the TRIDComp component

Purpose

Use the TRIDComp component to connect your applications to the criteria dialogs you designed using the Report Interface Designer application.

Tasks

Add an instance of the TRIDComp component to your project by selecting from the palette and dropping onto your main form. In your code, set the DDFName property and then call the Execute method.

During the design phase, you can Preview what the RID dialog will look like, and as long as the DialogOnly property is FALSE, pressing the Ok button on the displayed dialog will activate Crystal Reports to display the report using the specified criteria.

About property

Applies to
TRIDComp component

Declaration
property About;

Description
Design-time pseudo property which displays an About Box for the RIDComp component when the "..." ellipse button is pressed in the Object Inspector.

See also

<<< See also of About property >>>

About property example

Database property

Applies to
TRIDComp component

Declaration
`property` Database: **String;**

Description
This property is used in conjunction with the DataSource property. It will be populated when a report is assigned, but can be changed if desired. No verification is performed at the time of the change, so it is important that the new database has the same reporting structure.

See also

[Datasource](#) property
[UserID](#) property
[Password](#) property

DataSource property

Applies to
TRIDComp component

Declaration
`property DataSource: String;`

Description
This property is a combobox listing all configured ODBC datasources. If the report is ODBC-based and the DSN for the report is configured on the current PC, then this value will be automatically selected. If the report is SQL-based, i.e., using a native driver, then the program will attempt to locate an ODBC DSN of that same name. If one cannot be found, the value will be set to *<unknown>*.

A valid ODBC configuration is only necessary if using either the "runtime-sourcing" capabilities of the ListBox or ComboBox controls. An interesting feature of both Crystal Reports and RID is that a combined native driver/ODBC driver combination can be implemented. If the report is based on a native driver but you would like to use the SQL controls, then it is necessary to configure an ODBC datasource targeted at the same server (and named the same) as the DataSource property of the TReport control in the RID DialogBox. In this way, data for the controls will be populated using an ODBC connection while the native connectivity will be used during the actual report execution.

See also

[Database](#) property
[UserID](#) property
[Password](#) property

DDFName property

Applies to
TRIDComp component

Declaration
`property DDFName: **String**;`

Description
This is the name of the Dialog Definition File.

See also

[RptDirectory](#) property
[Preview](#) property
[Execute](#) method

Delimiter property

Applies to
TRIDComp component

Declaration
`property Delimiter: Char;`

Description
<<< Description of Delimiter property >>>
Run-time only

See also

<<< See also of Delimiter property >>>

Delimiter property example

Destination property

Applies to

component

Declaration

property Destination: Integer;

Description

This property is not currently implemented.

DialogOnly property

Applies to
TRIDComp component

Declaration
property DialogOnly: Boolean;

Description
This property determines if Crystal Reports will be called when the "Ok" button is pressed on the RID Dialog. The functionality may be useful if you are only interested in returning the selection criteria chosen by the user.

See also

Preview property
Execute method

DialogOnly property example

The following code is a modified copied from the RIDView sample program. This program has a combobox that stores the name of the files selected using an OpenDialog component. When a toolbar button is pressed, this retrieves the filename associated with the currently selected combobox entry and sets the DDFName property of the RIDComp component. The DialogOnly property is then set to TRUE, and the Execute method is called to display the dialog and permit the user to enter criteria. When the user presses the Ok button, Crystal Reports is not activated, though the OnAction event is still triggered.

```
procedure TMainForm.ExecMenuClick(Sender: TObject);
begin
  if (cbxDDF.Text <> '') then
    with RIDComp1 do
      begin
        DDFName := TStr(cbxDDF.Items.Objects[cbxDDF.ItemIndex]).Str;
        DialogOnly := TRUE;
        Execute;
      end;
end;
```

Name property

Applies to
TRIDComp component

Declaration
`property Name;`

Description
The name of the control.

ParamStrs property

Applies to
TRIDComp component

Declaration
`property ParamStrs: TStringList;`

Description
This property permits run-time assignment or retrieval of Parameter values, in "Name=Value" format. These values can be referenced or changed during the OnAction() event execution phase.

Run-time only

ParamStrs property example

The following example demonstrates how to access the dialog parameters during the OnAction event.

```
procedure TMainForm.RIDComp1Action(Action: Word; var aModalResult: Word);
var
  PL   : TStringList;
  Act : String;
  PF   : TParamForm;
begin
  if NOT(FParamsFlag) then
    Exit;
  try
    PL := TStringList.Create;
    PF := TParamForm.Create(Self);
    case Action of
      actNothing    : Act := 'actNothing';
      actOK                        : Act := 'actOK';
      actCancel     : Act := 'actCancel';
      actHelp       : Act := 'actHelp';
      actClose      : Act := 'actClose';
      actLoad       : Act := 'actLoad';
      actSave       : Act := 'actSave';
      actClear      : Act := 'actClear';
      actAutoLaunch : Act := 'actAutoLaunch';
      actInit       : Act := 'actInit';
    end;
    with PF do
      begin
        PL.Assign(RIDComp1.ParamStrs);
        ParamStrs :=PL;
        CurrAction := Act;
        ShowModal;
        PL.Text := ParamStrs.Text;
        RIDComp1.ParamStrs := PL;
      end;
  finally
    PF.Free;
    PL.Free;
  end;
end;
```

ParentHWnd property

Applies to
TRIDComp component

Declaration
property ParentHWnd: HWND;

Description
This "write-only" property permits assignment of a Parent window for the Report output window. Use this when creating an MDI application where you wish to fully contain the report window within a child window.

Run-time only
Write-only

Password property

Applies to
TRIDComp component

Declaration
property Password: **String;**

Description
This property is used in conjunction with the UserID property, and needs to be set when using any SQL controls (TComboBox, TListBox) associated with a protected database. This property will be populated when a Report is assigned.

See also

[Database](#) property
[Datasource](#)property
[UserID](#) property

Preview property

Applies to
TRIDComp component

Declaration
`property` Preview: **String;**

Description
This is not really a property, but a mechanism for viewing RID dialogs at "design-time". Set the DDFName property and then activate the *Preview* mode to see the actual RID dialog. If DialogOnly is set to TRUE, then Crystal Reports will not be executed.

See also

[Execute](#) method

RptDirectory property

Applies to
TRIDComp component

Declaration
`property RptDirectory: ` **`String;`**

Description
This property determines where RID will look for the Crystal Reports .RPT files. The report file will be located based on the following criteria:

1. If the *RptDirectory* property has a value, use it to find the .RPT file.
2. If the .RPT file is not found using the *RptDirectory* value, check in the same location as the DDF file.
3. If not found where the DDF file is, then use the path stored when the Report Association was made in the Report Interface Designer application.
4. If not found, then look in the directory where the current application was execute from.
5. If still not found, display an error.

See also

DDFName property

Tag property

Applies to
TRIDComp component

Declaration
`property Tag;`

Description
The tag property for the control.

UserID property

Applies to
TRIDComp component

Declaration
property UserID: **String;**

Description
This property is used in conjunction with the Password property, and needs to be set when using any SQL controls (TComboBox, TListBox) associated with a protected database. This property will be populated when a Report is assigned.
Protected

See also

[Database](#) property
[Datasource](#) property
[Password](#)property

Create method

Applies to
TRIDComp component

Declaration
`constructor Create(AOwner: TComponent); override;`

Description
This is the default object constructor.

Destroy method

Applies to
TRIDComp component

Declaration
`destructor` `Destroy;` `override;`

Description
This is the default object destructor.

Execute method

Applies to
TRIDComp component

Declaration
`function` Execute: Integer; **virtual;**

Description
Call this method to initiate the Dialog display and Report creation execution sequence.

See also

[Preview](#) property

Execute method example

The following code is copied from the RIDView sample program. This program has a combobox that stores the name of the files selected using an OpenDialog component. When a toolbar button is pressed, this retrieves the filename associated with the currently selected combobox entry and sets the DDFName property of the RIDComp component. Then the Execute method is called to display the dialog and permit the user to enter criteria.

```
procedure TMainForm.ExecMenuClick(Sender: TObject);
begin
  if (cbxDDF.Text <> '') then
    with RIDComp1 do
      begin
        DDFName := TStr(cbxDDF.Items.Objects[cbxDDF.ItemIndex]).Str;
        Execute;
      end;
end;
```

Status method

Applies to
TRIDComp component

Declaration
function Status: Integer;

Description
Call this method to check the status of the RID Engine. Result values are either stsOk (0) or stsBadDLL (-1), which usually occurs when the RIDComp component cannot find the RIDExec.dll file.

Status method example

This code uses a button and a TRIDComp component on a form. When the user clicks the button, the code tests the Status of the component.

```
procedure TForm1.Button1Click(Sender: TObject);
var
  StatRes : Integer;
begin
  StatRes := RIDComp1.Status;
  case StatRes of
    stsOk   : ShowMessage('Status is Ok');
    stsBadDLL      : ShowMessage('Status is BadDLL.');
  end;
end;
```

OnAction event

Applies to
TRIDComp component

Declaration
type TActionEvent = **procedure**(Action: Word; **var** aModalResult: Word) **of Object**;

property OnAction: TActionEvent;

Description
This event is fired when a button is pressed on the RID dialog.

Action is one of the following values:

actNothing	This is a default value which should never occur.
actOK	Indicates that an "Ok" button was pressed.
actCancel	Indicates that a "Cancel" button was pressed.
actHelp	Indicates that a "Help" button was pressed.
actClose	Indicates that a "Close" button was pressed.
actLoad	Indicates that a "Load" button was pressed.
actSave	Indicates that a "Save" button was pressed.
actClear	Indicates that a "Clear" button was pressed.
actAutoLaunch	Indicates that the "AutoLaunch" property for the Report is TRUE. The OnAction event will be called with this value instead of the actInit value.
actInit	The event gets called with this value prior to the Dialog display.

aModalResult is the default ModalResult value for the pressed button. It can be changed at this time to keep the dialog on the screen.

The ParamStrs property is accessible during this event, and default control values can be set prior to the display of the dialog.

See also

[OnError](#) event

OnAction event example

The following example demonstrates how to overwrite the standard action handling to process the dialog parameters. It is the Action handling functionality of the **RIDView** sample program.

```
procedure TMainForm.RIDComp1Action(Action: Word; var aModalResult: Word);
var
  PL  : TStringList;
  Act : String;
  PF  : TParamForm;
begin
  if NOT(FParamsFlag) then
    Exit;
  try
    PL := TStringList.Create;
    PF := TParamForm.Create(Self);
    case Action of
      actNothing    : Act := 'actNothing';
      actOk         : Act := 'actOK';
      actCancel     : Act := 'actCancel';
      actHelp       : Act := 'actHelp';
      actClose      : Act := 'actClose';
      actLoad       : Act := 'actLoad';
      actSave       : Act := 'actSave';
      actClear      : Act := 'actClear';
      actAutoLaunch : Act := 'actAutoLaunch';
      actInit       : Act := 'actInit';
    end;
    with PF do
      begin
        PL.Assign(RIDComp1.ParamStrs);
        ParamStrs :=PL;
        CurrAction := Act;
        ShowModal;
        PL.Text := ParamStrs.Text;
        RIDComp1.ParamStrs := PL;
      end;
  finally
    PF.Free;
    PL.Free;
  end;
end;
```

OnError event

Applies to
TRIDComp component

Declaration
```
type TErrorEvent = procedure(ErrorNum: Word; ErrorText: PChar; var Handled:
                    Boolean) of object;
property OnError: TErrorEvent;
```

Description
This event is fired when an error is detected.

ErrorNum and *ErrorText* are as follows:

errBuildObjList	1099	*Depends on where error occurs*.
errPopulateParams	1098	*Depends on where error occurs*.
errPopulateSQLControls	1097	*Depends on where error occurs*.
errShowRpt	1096	*Depends on where error occurs*.
errRIDExecRpt	1095	*Depends on where error occurs*.
errUnknownMajorVersion	1094	Unknown Major Version in RID File.
errUnknownMinorVersion	1093	Unknown Minor Version in RID File.
errUnknownFileFormat	1092	Unknown File Format.
errRIDBuildStream	1091	*Depends on where error occurs*.

Handled is a boolean value with a default of FALSE. Setting this value to TRUE
will stop RID from displaying the error message.

See also

OnAction event

OnError event example

The following example demonstrates how to overwrite the standard error handling to display custom errors.

```
procedure TForm1.RIDComp1Error(ErrorNum: Word; ErrorText: PChar;
  var Handled: Boolean);
begin
  Handled := True;
  case ErrorNum of
    errBuildObjList :
      begin
        MessageBox(0, PChar(Format('[%d] "BuildObjList" Error: [%s]',
          [ErrorNum, ErrorText])),
          'Report Interface Designer', MB_ICONEXCLAMATION or MB_OK);
      end;
    errPopulateParams :
      begin
        MessageBox(0, PChar(Format('[%d] "PopulateParams" Error: [%s]',
          [ErrorNum, ErrorText])),
          'Report Interface Designer', MB_ICONEXCLAMATION or MB_OK);
      end;
    errPopulateSQLControls :
      begin
        MessageBox(0, PChar(Format('[%d] "PopulateSQLControls" Error: [%s]',
          [ErrorNum, ErrorText])),
          'Report Interface Designer', MB_ICONEXCLAMATION or MB_OK);
      end;
    errShowRpt :
      begin
        MessageBox(0, PChar(Format('[%d] "ShowRpt" Error: [%s]',
          [ErrorNum, ErrorText])),
          'Report Interface Designer', MB_ICONEXCLAMATION or MB_OK);
      end;
    errRIDExecRpt :
      begin
        MessageBox(0, PChar(Format('[%d] "RIDExecRpt" Error: [%s]',
          [ErrorNum, ErrorText])),
          'Report Interface Designer', MB_ICONEXCLAMATION or MB_OK);
      end;
  end;
end;
```

TActionEvent type

Unit
RIDComp

Declaration
```
type TActionEvent = procedure(Action: Word; var aModalResult: Word) of
                    Object;
```

Description
Assign a handler to this event to respond to a button-press action. The Action value corresponds to one of the act???? constants. The aModalResult value corresponds to the default value assigned to the pressed button. You can change this value to modify the default behavior.

See also

OnAction event

TErrorEvent type

Unit
RIDComp

Declaration
```
type TErrorEvent = procedure(ErrorNum: Word; ErrorText: PChar; var Handled:
                   Boolean) of object;
```

Description
Assign a handler to this event to trap any errors that are generated during the Execute() phase. The ErrorNum value corresponds to one of the err???? constants. The ErrorText value is the default error message. Handled defaults to FALSE. If you set it to TRUE, the RID engine will not display an error message.

See also

OnError event

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Address:

TRI-I Engineering, Inc.
200 W. 17th Street, Suite 80
Cheyenne, WY   82001

Telephone:

Sales & Information
(888) 551-3500

Support
(310) 967-3966

World Wide Web:

http://www.iii-eng.com

sales@iii-eng.com
support@iii-eng.com

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- o RIDExec.dll   Every client will need this file installed in either the Application directory (preferred) or in the Windows System directory.

- o RIDCompX.ocx   These files are only required if you are developing
   RIDCompX.tlb   with the RID ActiveX component. As part of your own installation program, this file will need to be copied to the client Windows System directory and then registered. If your installation program does not automatically detect and register OCX files, then you will need to manually register this component using REGSVR32.EXE. Following is an example:

     REGSVR32 <ocx directory>\RIDCompX.ocx

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