

ReportWorks

Properties Methods Events

The ReportWorks component is designed to provide fast, simple, hassle-free reporting functionality. Reports can be previewed, printed to the printer or printed to file. Columns can be established in the form of tabs with left, right and center justification. Lines, or rows, can be shaded, if so desired.

Output can be printed with or without linefeed, left, right or center justified. Large strings, longer than 255 characters, can be output with automatic wordwrap within the established page margins.

Printer page units can be set to Inches, Millimeters or Points. Once margins are set, all printing occurs within these boundaries.

Graphics functionality is available, and bitmaps, icons and metafiles can be imported to the page.

Copyright

Properties

In addition to the properties inherited from the **TGraphicsControl**, the ReportWorks component introduces the following:

» Run-Time Only

BottomMargin		LinesPerInch		RightMargin
CurrentPage		LineWidth		TextStyle
Destination		Orientation		Title
FileName		PageBorder		TopMargin
LeftMargin	»	PageNum		Units
LineMeasure	»	PageTotal		ZoomPercent

Methods

In addition to the methods inherited from the **TGraphicsControl**, the ReportWorks component introduces the following:

ClearTabs	LineCenter	PrintRight
DrawGraphic	LineEnd	PrintTab
DrawLine	LineStart	Rectangle
Ellipse	LineTo	ResetPagePosition
EndDoc	NewPage	SetBrush
FirstPage	NextLine	SetBrushDefault
FontBold	NextPage	SetFont
FontItalic	Paint	SetPagePosition
FontRegular	PositionGraphic	SetPen
FontStrikeout	PreviousLine	SetPenDefault
FontUnderline	PreviousPage	SetTab
GoToPageBottom	Print	ShadeLine
GoToPageTop	PrintCenter	StartDoc
GoToXY	PrintLeft	StretchGraphic
IsPageEnd	PrintLine	
LastPage	PrintParagraph	

Events

ReportWorks has only one event.

OnPrint

Copyright

ReportWorks, Version 1.00

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Howard S. Walsh

The unregistered version of ReportWorks will work only while Delphi is running.

Registered users of ReportWorks will receive a royalty-free version that will run without Delphi. Registered users will also receive the full source code. The source code may also be altered to suit the registered users need. However, I request that I be made aware of any improvements or additions to the source code.

The only restriction to registered users is that they cannot resell the component as their own, whether it has been altered or not.

BottomMargin Property

Applies to
ReportWorks

Declaration
`property BottomMargin : Single;`

Description
The BottomMargin property allows the user to set the printer page bottom margin relative to the actual page length, not printing area. The BottomMargin may be set in Inches, Millimeters or Points.

Example
The following example sets the page bottom margin to one inch.

```
Units := uInch;  
BottomMargin := 1;
```

CurrentPage Property

Applies to
ReportWorks

Declaration

property CurrentPage : Integer;

Description

The CurrentPage property allows the user to set which report page will show in the preview screen. Normally, this is initially set to 1 in the Object Inspector. Once the preview screen is shown, maneuvering among the pages should be accomplished by using FirstPage, PreviousPage, NextPage and LastPage instead of by setting **CurrentPage**.

Setting CurrentPage to a value greater than the total number of pages in the report will result in a blank preview page.

Example

The following example sets the current preview page to page 2.

```
Procedure Example.SampleReport;
begin
  with ReportWorks1 do
  begin
    StartDoc;
    .
    .
    EndDoc;
  end;
end;

procedure Example.PageTwo
begin
  ReportWorks1.Destination := dPreview;
  ReportWorks1.CurrentPage := 2;
  SampleReport;
end;
```

Destination Property

Applies to
ReportWorks

Declaration

```
property Destination : TDestination;
```

Description

The Destination property directs the report output to the preview screen, printer or file. The property takes a value of TDestination which is either **dPreview**, **dPrinter** or **dFile**.

Value	Description
dPreview	Output is directed to the preview screen.

dPrinterOutput is directed to the printer. ReportWorks encapsulates the Printer object.

dFile	Output is directed to a file. If FileName is not specified, ReportWorks uses quickrpt.prn'.
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Example

The following example directs output to the printer object.

```
Destination := dPrinter;
```

FileName Property

Applies to
ReportWorks

Declaration
`property FileName : String;`

Description
The FileName property allows the user to specify a file name to use when the Destination is set to **dFile**.

Example
The following example directs output to a file.

```
FileName := Report1.prn'  
Destination := dFile;  
StartDoc;
```

LeftMargin Property

Applies to
ReportWorks

Declaration
`property LeftMargin : Single;`

Description
The LeftMargin property allows the user to set the printer page left-hand margin relative to the actual page length, not printing area. The LeftMargin may be set in Inches, Millimeters or Points.

Example
The following example sets the page left margin to one inch.

```
Units := uInch;  
LeftMargin := 1;
```

LineMeasure Property

Applies to
ReportWorks

Declaration

```
property LineMeasure : TLineMeasure;
```

Description

The LineMeasure property determines how the report lines, or rows, are measured. The property takes a value of **TLineMeasure** which is either **ImTextHeight** or **ImLinesPerInch**.

Value

ImTextHeight

Description

Lines are measured by the current font height.

ImLinesPerInch

Number of lines per inch is determined by the value of LinesPerInch property.

Example

The following example sets the number of lines per inch to 5.

```
LinesPerInch := 5  
LineMeasure := lmLinesPerInch;
```

LineWidth Property

Applies to
ReportWorks

Declaration

```
property LineWidth : TLineWidth;
```

Description

The LineWidth property set the thickness of lines drawn by the DrawLine method. The property takes a value of **TLineWidth**, which is one of the following: **lwDefault**, **lwFine**, **lwNormal**, **lwDouble**, **lwThick** or **lwHeavy**.

Value	Description
lwDefault	Line thickness is determined by the current page pen width.
lwFine	Line thickness is approximately 1/100 of an inch.
lwNormal	Line thickness is approximately 1/50 of an inch.
lwDouble	Line thickness is approximately 1/25 of an inch.
lwThick	Line thickness is approximately 1/15 of an inch.
lwHeavy	Line thickness is approximately 1/10 of an inch.

Example

The following example sets the the line width to lwDouble.

```
LineWidth := lwDouble;  
DrawLine;
```

Orientation Property

Applies to
ReportWorks

Declaration

```
property Orientation : TPrinterOrientation;
```

Description

The LineMeasure property sets the report page orientation to either Portrait or Landscape. The property takes a value of **TPrinterOrientation**, which is a Delphi type of either **poPortrait** or **poLandscape**.

Orientation should not be changed in the middle of a printed page, but can be changed before the document is started or before a new page is started.

Example

The following example sets the printer orientation to Landscape.

```
Orientation := poLandscape;  
StartDoc;
```

PageBorder Property

Applies to
ReportWorks

Declaration
`property PageBorder : Boolean;`

Description
The PageBorder takes a boolean value which determines if a black border is drawn around the preview page.

Example
The following example will draw a black border around the preview page.

```
PageBorder := 1;  
Destination := dPreview  
StartDoc;
```

RightMargin Property

Applies to
ReportWorks

Declaration
`property RightMargin : Single;`

Description
The RightMargin property allows the user to set the printer page right-hand margin relative to the actual page length, not printing area. The RightMargin may be set in Inches, Millimeters or Points.

Example
The following example sets the page right margin to one inch.

```
Units := uInch;  
RightMargin := 1;
```

TextStyle Property

Applies to
ReportWorks

Declaration

```
property TextStyle : TTextStyle;
```

Description

The TextStyle property determines if text is printed as Transparent or Opaque (default). The property takes a value of **TTextStyle**, which is either **tsDefault** or **tsTransparent**.

The default value, **tsDefault**, will print text either as Opaque or Transparent or other depending on the current setting of the Report Brush Style.

Example

The following example allows text to print properly over a yellow shaded line.

```
ShadeLine(clYellow);  
TextStyle := tsTransparent;  
PrintLeft(This is a test.);
```

Title Property

Applies to
ReportWorks

Declaration
`property Title : String;`

Description
The Title property determines the document name to be used by the Print Manager when the report prints to the printer. If Title is not specified, then the Print Manager uses 'Untitled'.

Example
The following example sets the report title to 'Car Expenses'.

```
Title := 'Car Expenses';  
StartDoc;
```

TopMargin Property

Applies to
ReportWorks

Declaration
`property TopMargin : Single;`

Description
The TopMargin property allows the user to set the printer page top margin relative to the actual page length, not printing area. The TopMargin may be set in Inches, Millimeters or Points.

Example
The following example sets the page top margin to one inch.

```
Units := uInch;  
TopMargin := 1;
```

Units Property

Applies to
ReportWorks

Declaration

```
property Units : TUnits;
```

Description

The Units property determines if ReportWorks used inches, millimeters, or points as its measurement unit. ReportWorks can also use the Report Canvas pixel as measurement, however, if the report is printed to a preview screen the output may differ from the report printed to a printer. Due to this restriction, the value, **uDefault**, should not be used unless the output is to be directed to only one destination.

The property takes one of the following values:

Value	Description
uInches	Output is measured in inches.
uMM	Output is measured in millimeters.
uPoints	Output is measured in points (about 72 points per inch).
uDefault	Output is measured in pixels.

Example

The following example sets the unit measurement to inches.

```
Units := uInch;  
RightMargin := 1;
```

ZoomPercent Property

Applies to
ReportWorks

Declaration
`property ZoomPercent : Integer;`

Description
The ZoomPercent property determines the size of the preview screen. The default value is 100. Fastest screen redraw occurs when the default value is used. If this value is set to anything other than 100, ReportWorks uses StretchDraw to repaint the screen and this method is slower than Draw.

Example
The following example doubles the preview page size.

```
ZoomPercent := 200;
```

PageNum Property

Applies to
ReportWorks

Declaration
`property PageNum : Integer;`

Description
The PageNum property returns the current printing page. Use this property to indicate which page is the current preview page.

PageTotal Property

Applies to
ReportWorks

Declaration

```
property PageTotal : Integer;
```

Description

The PageTotal property returns the total number of pages in the report. This property is set during the call to EndDoc, otherwise it is set to one. To get an accurate page total, print report to preview screen and then call PageTotal.

ClearTabs Method

Applies to
ReportWorks

Declaration
`procedure ClearTabs;`

Description

The ClearTabs method clears all previously set tab locations. If no tabs have been set, this method does nothing.

ClearTabs is called by the StartDoc method. Calls to SetTab, therefore, should be called after StartDoc is called.

DrawGraphic Method

Applies to
ReportWorks

Declaration

procedure DrawGraphic (x1, y1: single; AGraphic: TGraphic);

Description

The DrawGraphic method places a bitmap, metafile or icon at the location specified by x1 and y1. The left position is set by x1 and the top position is set by y1, relative to the page margins.

Example

The following example places a bitmap in the top-left corner of the report page.

```
Procedure Report1.Header;  
var ABitmap:TBitmap;  
begin  
    ...  
    ABitmap.LoadFromFile(c:\company\logo.bmp');  
    ReportWorks1.DrawGraphic(0,0,ABitmap);  
    ...  
end;
```

DrawLine Method

Applies to
ReportWorks

Declaration
`procedure DrawLine;`

Description
The DrawLine method draws a line from the left margin to the right margin at the current line, or row, position. The line thickness is determined by the setting of the property LineWidth.

Example
The following example draws a double line, one thick and one fine.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      LineWidth := lwThick;  
      DrawLine;  
      NextLine;  
      LineWidth := lwFine;  
      DrawLine;  
      ...  
      EndDoc;  
    end;  
end;
```

Ellipse Method

Applies to
ReportWorks

Declaration

procedure Ellipse(x1, y1, x2, y2: single);

Description

The Ellipse method draws an ellipse, bound by the four corners determined by x1, y1, x2 and y2, on the report page. The corner parameters are as follows:

x1	Left
x2	Right
y1	Top
y2	Bottom

Corner parameters are determined within the page margins, not within the actual page deminisions.

Example

The following example draws an 3 x 4 inch ellipse starting one inch down from the top margin and a half inch in from the left margin.

```
Procedure Example.DrawEllipse;
begin
  with ReportWorks1 do
    begin
      TopMargin := 1;
      LeftMargin := 1;
      BottomMargin := 1;
      RightMargin := 1;
      Ellipse(.5, 1, 3.5, 5);
    end;
end;
```

EndDoc Method

Applies to
ReportWorks

Declaration
`procedure EndDoc;`

Description
The EndDoc method signals the end of the report. The PageTotal property is set in this procedure. If Destination is set to dPreview, then Refresh is called to update the preview screen, otherwise a call is made to Printer.EndDoc to set output to the printer or file. The Abort / Status window, if open, is closed.

Example
The following example ends a report.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      EndDoc;  
    end;  
end;
```

FirstPage Method

Applies to
ReportWorks

Declaration
`procedure FirstPage;`

Description

The FirstPage method sets the CurrentPage property to 1. The next time the user's report procedure is called, the first page of the report will appear on the preview screen if Destination is set to **dPreview**.

FontBold Method

Applies to
ReportWorks

Declaration
`procedure FontBold;`

Description
The FontBold method sets the current report font style to **Bold**. Other styles (ie: Italic) are not affected.

FontItalic Method

Applies to
ReportWorks

Declaration
`procedure FontItalic;`

Description
The FontItalic method sets the current report font style to *Italic*. Other styles (ie: Bold) are not affected.

FontRegular Method

Applies to
ReportWorks

Declaration
`procedure FontRegular;`

Description
The FontRegular method cancels all previously set styles for the current report font.

FontStrikeout Method

Applies to
ReportWorks

Declaration
`procedure FontStrikeout;`

Description
The FontStrikeout method sets the current report font style to Strikeout. Other styles (ie: Italic) are not affected.

FontUnderline Method

Applies to
ReportWorks

Declaration
`procedure FontUnderline;`

Description
The FontUnderline method sets the current report font style to UnderLine. Other styles (ie: Italic) are not affected.

GoToPageBottom Method

Applies to
ReportWorks

Declaration
`procedure GoToPageBottom;`

Description
The `GoToPageBottom` moves the current report page position for drawing or text output to the page bottom margin.

Example
The following example draws a line at the bottom margin position.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      GoToPageBottom;  
      DrawLine;  
      EndDoc;  
    end;  
end;
```

GoToPageTop Method

Applies to
ReportWorks

Declaration
`procedure GoToPageTop;`

Description
The `GoToPageTop` moves the current report page position for drawing or text output to the page top margin.

Example
The following example draws a line at the top margin position.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      GoToPageTop;  
      DrawLine;  
      ...  
      EndDoc;  
    end;  
end;
```

GoToXY Method

Applies to
ReportWorks

Declaration

procedure GoToXY(x, y:single);

Description

The GoToXY method moves the current report page position for drawing or text output to the position determined by x and y. Position is relative to the page margins.

Example

The following example draws a 3 inch line one inch down from the top margin and a half inch in from the left margin.

```
Procedure Example.Report;
begin
  with ReportWorks1 do
    begin
      StartDoc;
      ...
      GoToXY(.5, 1);
      LineTo(3.5, 1);
      ...
      EndDoc;
    end;
end;
```

IsPageEnd Method

Applies to
ReportWorks

Declaration
`function IsPageEnd : Boolean;`

Description
The IsPageEnd function returns 1 if the current report page position is at the bottom margin, otherwise, it returns 0.

Example
The following example prints a column of numbers on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          Print(IntToStr(x));  
          NextLine;  
          if IsPageEnd then NewPage;  
        end;  
      ...  
      EndDoc;  
    end;  
end;
```

LastPage Method

Applies to
ReportWorks

Declaration
`procedure LastPage;`

Description
The LastPage method sets the CurrentPage property to the value of the PageTotal property. The next time the user's report procedure is called, the last page of the report will appear on the preview screen if Destination is set to **dPreview**.

LineCenter Method

Applies to
ReportWorks

Declaration
`procedure LineCenter;`

Description
The LineCenter method moves the report page pen position to the center of the current line relative to the page margins.

LineEnd Method

Applies to
ReportWorks

Declaration
`procedure LineEnd;`

Description
The LineEnd method moves the report page pen position to the end of the current line relative to the page margins, ie: right margin.

LineStart Method

Applies to
ReportWorks

Declaration
`procedure LineStart;`

Description
The LineStart method moves the report page pen position to the beginning of the current line relative to the page margins, ie: left margin.

LineTo Method

Applies to
ReportWorks

Declaration
`procedure LineTo(x, y:single);`

Description
The LineTo method draws a line from the current pen position to the position specified by x and y relative to the page margins.

Example
The following example draws a 3 inch line one inch down from the top margin and a half inch in from the left margin.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      GoToXY(.5, 1);  
      LineTo(3.5, 1);  
      ...  
      EndDoc;  
    end;  
end;
```

NewPage Method

Applies to
ReportWorks

Declaration
`procedure NewPage;`

Description
The NewPage method increments PageNum, sets the report page pen position to the top of the next page, updates the Abort / Status window if open, and calls Printer.NewPage.

Example
The following example prints a column of numbers on more than one page.

```
Procedure Example.Report;
var x : integer
begin
  with ReportWorks1 do
    begin
      StartDoc;
      ...
      for x := 1 to 200 do
        begin
          Print(IntToStr(x));
          NextLine;
          if IsPageEnd then NewPage;
        end;
      ...
      EndDoc;
    end;
end;
```

NextLine Method

Applies to
ReportWorks

Declaration
`procedure NextLine;`

Description
The NextLine method sets the report page pen position to the next line or row as determined by the setting of the LineMeasure property.

Example
The following example prints a column of numbers on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          Print(IntToStr(x));  
          NextLine;  
          if IsPageEnd then NewPage;  
        end;  
        ...  
      EndDoc;  
    end;  
end;
```

NextPage Method

Applies to
ReportWorks

Declaration
`procedure NextPage;`

Description
The NextPage method increments the CurrentPage property. Bounds are checked to prevent CurrentPage exceeding the PageTotal. The next time the user's report procedure is called, the next page of the report will appear on the preview screen if Destination is set to **dPreview**.

Paint Method

Applies to
ReportWorks

Declaration
`procedure Paint;`

Description

The Paint method repaints the preview screen. Under most circumstances this method does not need to be call. Instead, call **Refresh** to update the preview screen, if needed. Normally, ReportWorks handles all necessary repainting.

PositionGraphic Method

Applies to
ReportWorks

Declaration

procedure PositionGraphic (AGraphic:TGraphic;AJustify:TJustify);

Description

The PositionGraphic method draws a bitmap, icon or metafile justified left, right or center on the current report page line or row.

Example

The following example draws the company logo in the top left corner of the report page.

```
Procedure Example.Report;  
var ABitMap:TBitMap;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      GoToPageTop  
      ABitMap.LoadFromFile(c:\company\logo.bmp');  
      PositionGraphic (ABitMap,jLeft);  
      ...  
      EndDoc;  
    end;  
end;
```

PreviousLine Method

Applies to
ReportWorks

Declaration
`procedure PreviousLine;`

Description

The PreviousLine method sets the report page pen position to the previous line or row as determined by the setting of the LineMeasure property. If LineMeasure is set to **ImTextHeight**, it is assumed that the report page font size has not been changed between the last call to NextLine and the call to PreviousLine.

PreviousPage Method

Applies to
ReportWorks

Declaration
`procedure PreviousPage;`

Description
The PreviousPage method decrements the CurrentPage property. Bounds are checked to prevent CurrentPage being set below page 1. The next time the user's report procedure is called, the previous page of the report will appear on the preview screen if Destination is set to **dPreview**.

Print Method

Applies to
ReportWorks

Declaration

```
procedure Print(s:string);
```

Description

The Print method prints a text string at the current report page pen position. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

If printing on a shaded line, the TextStyle property should be set to **tsTransparent** to enable proper text appearance.

Example

The following example prints a column of numbers on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          Print(IntToStr(x));  
          NextLine;  
          if IsPageEnd then NewPage;  
        end;  
        ...  
      EndDoc;  
    end;  
end;
```

PrintCenter Method

Applies to
ReportWorks

Declaration

```
procedure PrintCenter(s:string);
```

Description

The PrintCenter method prints a text string centered on the current report page line or row. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

Example

The following example prints the report title centered near the top of the page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      DrawLine  
      NextLine;  
      SetFont(Arial,24);  
      PrintCenter(Title);  
      NextLine;  
      SetFont(Arial,12);  
      ...  
      EndDoc;  
    end;  
end;
```

PrintLeft Method

Applies to
ReportWorks

Declaration
`procedure PrintLeft(s:string);`

Description
The PrintLeft method prints a text string left justified on the current report page line or row. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

Example
The following example prints a column of numbers left justified on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          PrintLeft(IntToStr(x));  
          NextLine;  
          if IsPageEnd then NewPage;  
        end;  
      ...  
      EndDoc;  
    end;  
end;
```

PrintLine Method

Applies to
ReportWorks

Declaration
`procedure PrintLine(s:string);`

Description
The PrintLine method prints a text string at the current report page pen position and calls the NextLine method. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

If printing on a shaded line, the TextStyle property should be set to **tsTransparent** to enable proper text appearance.

Example
The following example prints a column of numbers, using **PrintLine**, on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          PrintLine(IntToStr(x));  
          if IsPageEnd then NewPage;  
        end;  
        ...  
      EndDoc;  
    end;  
end;
```

PrintParagraph Method

Applies to
ReportWorks

Declaration

```
procedure PrintParagraph(pgraph:pchar);
```

Description

The PrintParagraph method prints a null-terminated text string starting at the current report page line. Word wrapping is performed within the report page margins. If the bottom margin is reached during the printing of the string, NewPage is called and printing continues on the next page.

Example

The following example prints a char array using PrintParagraph.

```
Procedure Example.Report;  
var Abuffer : array[1..80] as char;  
begin  
  Abuffer := Thisis a test.';  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      PrintParagraph(ABuffer);  
      ...  
      EndDoc;  
    end;  
end;
```

PrintRight Method

Applies to
ReportWorks

Declaration

```
procedure PrintRight(s:string);
```

Description

The PrintRight method prints a text string right justified on the current report page line or row. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

If printing on a shaded line, the TextStyle property should be set to **tsTransparent** to enable proper text appearance.

Example

The following example prints a column of numbers right justified on more than one page.

```
Procedure Example.Report;  
var x : integer  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      for x := 1 to 200 do  
        begin  
          PrintRight(IntToStr(x));  
          NextLine;  
          if IsPageEnd then NewPage;  
        end;  
        ...  
      EndDoc;  
    end;  
end;
```

PrintTab Method

Applies to
ReportWorks

Declaration

procedure PrintTab(tTab:integer; s:string);

Description

The PrintTab method prints a string at the tab position indicated by **tTab**. Use SetTab to establish tab positions before using the PrintTab method. The string is printed left, right or center justified depending on how the tab position was set. Word wrapping is not performed, so the user is responsible to make sure the string fits on the line properly within the page margins or tab positions.

If printing on a shaded line, the TextStyle property should be set to **tsTransparent** to enable proper text appearance.

Example

The following example prints a column of right justified numbers using **PrintTab**. Only one tab position is set.

```
Procedure Example.Report;
var x : integer
begin
  with ReportWorks1 do
    begin
      StartDoc;
      ...
      SetTab(6,jRight);
      for x := 1 to 20 do
        begin
          PrintTab(1,IntToStr(x));
          NextLine;
          if IsPageEnd then NewPage;
          end;
        ...
      EndDoc;
    end;
end;
```

Rectangle Method

Applies to
ReportWorks

Declaration

procedure Rectangle(x1, y1, x2, y2: single);

Description

The Rectangle method draws a rectangle, bound by the four corners determined by x1, y1, x2 and y2, on the report page. The corner parameters are as follows:

x1	Left
x2	Right
y1	Top
y2	Bottom

Corner parameters are determined within the page margins, not within the actual page deminisions.

Example

The following example draws an 3 x 4 inch rectangle starting one inch down from the top margin and a half inch in from the left margin.

```
Procedure Example.DrawRectangle;  
begin  
  with ReportWorks1 do  
    begin  
      TopMargin := 1;  
      LeftMargin := 1;  
      BottomMargin := 1;  
      RightMargin := 1;  
      Rectangle(.5, 1, 3.5, 5);  
    end;  
end;
```

ResetPagePosition Method

Applies to
ReportWorks

Declaration
`procedure ResetPagePosition;`

Description
The ResetPagePosition method returns the report page pen to the position saved by SetPagePosition.

Example
The following example draws a line, then moves to the bottom margin, draws another line and returns to the previous position.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      ...  
      SetPagePosition;  
      DrawLine  
      GoToPageBottom;  
      DrawLine;  
      ResetPagePosition;  
      ...  
    end;  
end;
```

SetBrush Method

Applies to
ReportWorks

Declaration

procedure SetBrush(bColor:TColor;bStyle:TBrushStyle);

Description

The SetBrush method sets the report page brush to the color specified by **bColor** using the style specified by **bStyle**. See Delphi help for description of **TColor** and **TBrushStyle** types.

SetBrushDefault Method

Applies to
ReportWorks

Declaration
`procedure SetBrushDefault;`

Description
The SetBrushDefault method sets the report page brush to default values. Brush color is set to **black** and brush style is set to **solid**.

SetFont Method

Applies to
ReportWorks

Declaration

procedure SetFont (fname:string; fsize:integer);

Description

The SetFont method sets the report page font to the font name specified by **fname** and to the size specified by **fsize**.

Example

The following example sets the font to Arial in two different sizes.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      DrawLine  
      NextLine;  
      SetFont (Arial, 24);  
      PrintCenter (Title);  
      NextLine;  
      SetFont (Arial, 12);  
      ...  
      EndDoc;  
    end;  
end;
```

SetPagePosition Method

Applies to
ReportWorks

Declaration
`procedure SetPagePosition;`

Description
The SetPagePosition method captures the current report page pen position. This position can be reset later by a call to ResetPagePosition.

SetPen Method

Applies to
ReportWorks

Declaration

```
procedure SetPen(pColor:Tcolor; pWidth:integer;  
                 pStyle:TPenStyle; pMode:TPenMode);
```

Description

The SetPen method set the report page pen to the color specified by **pColor**, the width specified by **pWidth**, the style specified by **pStyle** and the mode specified by **pMode**. See **TColor**, **TPenStyle** and **TPenMode** for information on these types.

SetPenDefault Method

Applies to
ReportWorks

Declaration
`procedure SetPenDefault;`

Description
The SetPenDefault method sets the report page pen to the following default values. The pen color is set to black, width is set to 1, style is set to solid, and the mode is set to Copy.

ShadeLine Method

Applies to
ReportWorks

Declaration
procedure ShadeLine (AColor:TColor);

Description
The ShadeLine method colors the current report page line, or row, to the color specified by AColor;

Example
The following example shades alternate lines to the color yellow.

```
Procedure Example.Report;
var x : integer;
    shade : boolean;
begin
  shade := 0;
  with ReportWorks1 do
    begin
      StartDoc;
      ...
      for x := 1 to 100 do
        begin
          shade := not shade;
          if shade then ShadeLine(clYellow);
          print(IntToStr(x));
          NextLine;
          if IsPageEnd then NewPage;
          end;
        ...
      EndDoc;
    end;
end;
```

StartDoc Method

Applies to
ReportWorks

Declaration
`procedure StartDoc;`

Description

The StartDoc method performs a number of initializations that are required before the report can be printed to the preview screen, printer or file. First, if the OnPrint event is assigned then the assigned procedure is run. Then tabs are cleared with ClearTabs, margins are set, the report page pen is set to the top of the page, the default pen and brush are set and LineNum and PageNum are initialized.

If Destination is set to dPreview then the preview page is drawn. If Destination is set to dFile then the proper initializations for printing to a file are performed. The Abort / Status window is created and activated. Finally, the Printer.BeginDoc method is called.

As a number of initializations are performed by **StartDoc**, this method should be the first method called in a report. Properties can be set before calling StartDoc.

Example

The following example shows StartDoc being call first.

```
Procedure Example.Report;  
begin  
  with ReportWorks1 do  
    begin  
      StartDoc;  
      DrawLine  
      ...  
      EndDoc;  
    end;  
end;
```

StretchGraphic Method

Applies to
ReportWorks

Declaration

procedure StretchGraphic (X1, Y1, X2, Y2: single; AGraphic: TGraphic);

Description

The StretchGraphic method draws a bitmap, icon or metafile to the area specified by X1, Y1, X2 and Y2. The corner parameters are as follows:

X1	Left
X2	Right
Y1	Top
Y2	Bottom

The graphic to draw is passed in **AGraphic**.

OnPrint Event

Applies to
ReportWorks

Declaration
`property OnPrint;`

Description
The OnPrint event is called by StartDoc before any initializations are performed and the call to Printer.BeginDoc is made. Use the OnPrint event to perform special initializations or open windows before the report starts to print.

Abort Form

The Abort form is called by StartDoc when the report is printing to the printer or to a file. The current printing page, report name and printer name is displayed.

Printing can be aborted by pressing the **Abort** button.

