Reports Authoring Visual Environment

Developer Reference

MANUAL
for Reference & Learning

Rave Reports Developer Reference

Copyright 1995-2008 Nevrona Designs

Single User License Agreement

Prepared: December 2008 in Arizona

Limited Warranty

1. Limited Warranty:

Nevrona Designs warrants that the disks on which the Software is furnished to be free from defects in material and workmanship, under normal use, for a period of 90 days after the date of the original purchase. If, during this 90-day period, a defect in the disk should occur, the disk may be returned with proof of purchase to Nevrona Designs, which will replace the disk without charge. Nevrona Designs warrants that the Software will perform substantially in accordance with the accompanying written materials. Nevrona Designs does not warrant that the functions contained in the Software will meet your requirements, or any operation of the Software will be uninterrupted or error-free. However, Nevrona Designs will, after being notified of significant errors during the 90-day period, correct demonstrable and significant Software or documentation errors within a reasonable period of time, or refund all or a fair portion of the price you have paid for the Software at Nevrona Designs' option.

2. Disclaimer of Warranties:

Nevrona Designs disclaims all other warranties, either expressed or implied, including but not limited to implied warranties of merchantability of fitness from particular purpose, with respect to the Software and accompanying written materials. This limited warranty gives you specific legal rights, you may have others, varying from state to state. Nevrona Designs will have no consequential damages. In no event, shall Nevrona Designs or its suppliers be liable for damages whatsoever, (including without limitation, damages for loss of business profits, business interruption, loss of business information, or any pecuniary loss), arising out of the use or the inability to this Nevrona Designs product, even if Nevrona Designs has been advised of the possibility of such damages. Some states do not allow the exclusion of limitation of liability for consequential or incidental damages, and this limitation may not apply to you.

3. Sole Remedy:

Nevrona Designs' entire liability in your inclusive remedy shall be, at Nevrona Designs' option, either: (1) The return of the purchase price paid; or (2) Repair or replacement of the Software that does not meet Nevrona Designs' limited warranty, which is returned to Nevrona Designs with a copy of your receipt.

4. Governing Law:

This Agreement will be construed and governed in accordance with laws of the State of Arizona.

5. U.S. Government Restricted Rights:

This Software and documentation are provided with restrictive rights. Use, duplication or disclosure by the Government is subject to restrictions set forth in Section c(1)(ii) of the Rights and Technical Data in Computer Software clause at 52.227-7013.

Nevrona Support

Technical Support

Technical support is provided to registered users for questions or problems with Rave. For fastest service contact us by e-mail or fax. Please include both the Rave version and product serial number (found on the Help About screen) along with any information related to the problem.

Internet:	tech@nevrona.com
Web page:	http://www.nevrona.com
Fax Phone:	602.296-0189
Mailing Address:	Nevrona Designs 5301 S Superstition Mountain Dr Ste 104-345 Gold Canyon AZ 85218-1917

News Groups

Several newsgroups are provided free of charge to assist you in getting help with our products. When you visit our newsgroups you will be connected to other users with similar interests. If you have a question, just post it to the newsgroups and others reading the newsgroups will see the message and be able to respond to it. You'll also see questions and solutions from other users as they are posted.

The Nevrona Designs newsgroups are available at news://news.nevrona.com.

To access the Nevrona Designs newsgroups, create a new server entry in your newsgroup reader with the Host address of news.nevrona.com and open that server. You should then see several newsgroups that you can subscribe to.

Sales Support

Internet:	sales@nevrona.com
Phone:	480 . 491 - 5492

Prepared: December 2008 in Arizona

Table of Contents

Introduction

Chapter 1

1 Introduction

Congratulations! You've made an excellent choice. Rave was designed to give the power of reporting back to the programmer where it belongs. Rave does this by offering a powerful suite of printing components that simplify the task of creating professional reports. Rave does not need any extra .DLL's, .VBX's or .EXE's. Reports can be written entirely with code and compiled in your application for easier distribution and faster execution. Or you can use the visual designer and its components for creating your reports. The visually designed reports are normally stored in one or more file(s) that are saved as an external RAV file. If desired, these report definitions can be saved in the application EXE. Read through this manual and the examples on the accompanying disk and you'll soon be turning nightmare printing jobs into dream reports.

See Rave Reports Developer Guide for information on upgrading from a bundled version of Rave Reports to the BEX version.

Contacting Nevrona Designs

1.1 TechSupport

Contacting Nevrona Designs

Web page:	http://www.nevrona.com
Sales:	Please email sales@nevrona.com or call (480) 491-5492.
Technical Support:	Please see http://www.nevrona.com/support for full information.
News Groups:	news://news.nevrona.com
Mailing Address:	5301 S Superstition Mountain Dr Ste 104-345 Gold Canyon AZ 85218-1917
Voice Phone:	(480) 491-5492
Fax:	(602) 296-0189

Please include both your Rave version and serial number in all messages to Nevrona. If it is a technical support request then it would also help if you included your operating system and language you are using.

Operating Systems including SP (service pack level)

Windows	Linux	.NET	other

Language including version and service pack

Delphi	C++Builder	VB	C#	other

Classes

Chapter

II

2 Classes

A class, or class type, defines a structure consisting of fields, methods, and properties. Instances of a class type are called objects. The fields, methods, and properties of a class are called its components or members.

2.1 TBaseReport

Unit
RpBase

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent
|
TBaseReport

Description
TBaseReport is the primary ancestor class for all report generation classes. TBaseReport defines the methods, properties and events used by all output components. While most interaction with TBaseReport is for code-based reporting, all of the visual components in Rave are built to use the functionality stored in this cornerstone class of Rave.

Events Derived from TBaseReport
OnAfterPrint, *OnBeforePrint*, *OnDecodeImage*, *OnNewColumn*, *OnNewPage*, *OnPrint*, *OnPrintFooter*, *OnPrintHeader*, *OnPrintPage*

Methods Derived from TBaseReport
Abort, *AbortPage*, *AdjustLine*, *AllowAll*, *AllowPreviewOnly*, *AllowPrinterOnly*, *Arc*, *AssignFont*, *BrushCopy*, *CalcGraphicHeight*, *CalcGraphicWidth*, *Chord*, *ClearAllTabs*, *ClearColumns*, *ClearTabs*, *CopyRect*, *CR*, *Create*, *CreateBrush*, *CreateFont*, *CreatePen*, *CreatePoint*, *CreateRect*, *Destroy*, *DrawFocusRect*, *Draw*, *Ellipse*, EndLink, *Execute*, *FillRect*, *Finish*, *FinishTabBox*, *FloodFill*, *FrameRect*, *GetMemoLine*, *GetNextLine*, *GetTab*, *GotoFooter*, *GotoHeader*, *GotoXY*, *GraphicFieldToBitmap*, *Home*, *LF*, *LinesLeft*, *LineTo*, *Macro*, *MakeLink*, *MemoLines*, *MoveTo*, *NewColumn*, *NewLine*, *NewPage*, *NoPrinters*, *Pie*, *Polygon*, *Polyline*, *PopFont*, *PopPos*, *PopTabs*, *Print*, *PrintBitmap*, *PrintBitmapRect*, *PrintBlock*, *PrintCenter*, *PrintCharJustify*, *PrintData*, *PrintDataStream*, *PrintFooter*, *PrintHeader*, *PrintImageRect*, *PrintJustify*, *PrintLeft*, *PrintLn*, *PrintMemo*, *PrintRight*, *PrintTab*, *PrintXY*, *PushFont*, *PushPos*, *PushTabs*, *RecoverPrinter*, *Rectangle*, *RegisterGraphic*, *ReleasePrinter*, *Reset*, *ResetLineHeight*, *ResetPrinter*, *ResetSection*, *ResetTabs*, *RestoreFont*, *RestorePos*, *RestoreTabs*, *ReuseGraphic*, *RoundRect*, *SaveFont*, *SavePos*, *SaveTabs*, *SelectBin*, *SelectPaper*, *SelectPrinter*, *SetBrush*, *SetColumns*, *SetColumnWidth*, *SetFont*, *SetPaperSize*, *SetPen*, *SetPIVar*, *SetTab*, *SetTopOfPage*, *ShadeToColor*, *ShowPrintDialog*, *ShowPrinterSetupDialog*, *Start*, StartLink, *StretchDraw*, *SupportBin*, *SupportCollate*, *SupportDuplex*, *SupportOrientation*, *SupportPaper*, *Tab*, *TabEnd*, *TabStart*, *TabWidth*, *TextRect*, *TextWidth*, *UnregisterGraphic*, *UpdateStatus*, *XD2U*, *XI2D*, *XI2U*, *XU2D*, *XU2I*, *YD2I*, *YD2U*, *YI2D*, *YI2U*, *YU2D*, *YU2I*

Properties Derived from TBaseReport
Aborted, *AccuracyMethod*, *AscentHeight*, *Bins*, *BKColor*, *Bold*, *BottomWaste*, *BoxLineColor*, *Canvas*, *Collate*, *ColumnEnd*, *ColumnLinesLeft*, *ColumnNum*, *Columns*, *ColumnStart*, *ColumnWidth*, *Copies*, *CurrentPage*, *CurrentPass*, *CursorXPos*, *CursorYPos*, *DescentHeight*, *DeviceName*, *DevMode*, *DriverName*, *Duplex*, *FileName*, *FirstPage*, *FontAlign*, *FontBaseline*, *FontBottom*, *FontCharset*, *FontColor*, *FontHandle*, *FontHeight*, *FontName*, *FontPitch*, *FontRotation*, *Fonts*, *FontSize*, *FontTop*, *FontWidth*, *FrameMode*, *GridVert*, *Italic*, *LastPage*, *LeftWaste*, *LineBottom*, *LineHeight*, *LineHeightMethod*, *LineMiddle*, *LineNum*, *LinesPerInch*, *LineTop*, *MacroData*, *MarginBottom*, *MarginLeft*, *MarginRight*, *MarginTop*, *MaxCopies*, *NoBufferLine*, *NoNTColorFix*, *NoPrinterPageHeight*, *NoPrinterPageWidth*, *Orientation*, *OriginX*, *OriginY*, *OutputInvalid*, *OutputName*, *PageHeight*, *PageInvalid*, *PageWidth*, *Papers*, *PIVar*, *Port*, *PrinterIndex*, *Printers*, *Printing*, *ReportDateTime*, *RightWaste*, *ScaleX*, *ScaleY*, *SectionBottom*, *SectionLeft*, *SectionRight*, *SectionTop*, *Selection*, *ShadowDepth*, *StatusFormat*, *StatusLabel*, *StatusText*, *Stream*, *StreamMode*, *Strikeout*, *Subscript*, *Superscript*, *TabColor*, *TabJustify*, *TabShade*, *TextBKMode*, *Title*, *TopWaste*, *TotalPasses*,

TransparentBitmaps, *TruncateText*, *Underline*, *Units*, *UnitsFactor*, *XDPI*, *XPos*, *YDPI*, *YPos*

Properties Derived from TRpComponent
Version

2.2 TCanvasReport

Unit
RpCanvas

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent
|
TBaseReport
|
TCanvasReport

Description
TCanvasReport attaches many of the abstract methods in TBaseReport to TCanvas methods and is used by all output components that write to a canvas. TRvRenderPrinter (printer canvas) and TRvRenderPreview (preview canvas) are two examples of components that descend from TCanvasReport.

Events Derived from TBaseReport
OnAfterPrint, *OnBeforePrint*, *OnDecodeImage*, *OnNewColumn*, *OnNewPage*, *OnPrint*, *OnPrintFooter*, *OnPrintHeader*, *OnPrintPage*

Methods Derived from TBaseReport
Abort, *AbortPage*, *AdjustLine*, *AllowAll*, *AllowPreviewOnly*, *AllowPrinterOnly*, *Arc*, *AssignFont*, *BrushCopy*, *CalcGraphicHeight*, *CalcGraphicWidth*, *Chord*, *ClearAllTabs*, *ClearColumns*, *ClearTabs*, *CopyRect*, *CR*, *Create*, *CreateBrush*, *CreateFont*, *CreatePen*, *CreatePoint*, *CreateRect*, *Destroy*, *DrawFocusRect*, *Draw*, *Ellipse*, *Execute*, *FillRect*, *Finish*, *FinishTabBox*, *FloodFill*, *FrameRect*, *GetMemoLine*, *GetNextLine*, *GetTab*, *GotoFooter*, *GotoHeader*, *GotoXY*, *GraphicFieldToBitmap*, *Home*, *LF*, *LinesLeft*, *LineTo*, *Macro*, *MemoLines*, *MoveTo*, *NewColumn*, *NewLine*, *NewPage*, *NoPrinters*, *Pie*, *Polygon*, *Polyline*, *PopFont*, *PopPos*, *PopTabs*, *Print*, *PrintBitmap*, *PrintBitmapRect*, *PrintBlock*, *PrintCenter*, *PrintCharJustify*, *PrintData*, *PrintDataStream*, *PrintFooter*, *PrintHeader*, *PrintImageRect*, *PrintJustify*, *PrintLeft*, *PrintLn*, *PrintMemo*, *PrintRight*, *PrintTab*, *PrintXY*, *PushFont*, *PushPos*, *PushTabs*, *RecoverPrinter*, *Rectangle*, *RegisterGraphic*, *ReleasePrinter*, *Reset*, *ResetLineHeight*, *ResetPrinter*, *ResetSection*, *ResetTabs*, *RestoreFont*, *RestorePos*, *RestoreTabs*, *ReuseGraphic*, *RoundRect*, *SaveFont*, *SavePos*, *SaveTabs*, *SelectBin*, *SelectPaper*, *SelectPrinter*, *SetBrush*, *SetColumns*, *SetColumnWidth*, *SetFont*, *SetPaperSize*, *SetPen*, *SetPIVar*, *SetTab*, *SetTopOfPage*, *ShadeToColor*, *ShowPrintDialog*, *ShowPrinterSetupDialog*, *Start*, *StretchDraw*, *SupportBin*, *SupportCollate*, *SupportDuplex*, *SupportOrientation*, *SupportPaper*, *Tab*, *TabEnd*, *TabStart*, *TabWidth*, *TextRect*, *TextWidth*, *UnregisterGraphic*, *UpdateStatus*, *XD2U*, *XI2D*, *XI2U*, *XU2D*, *XU2I*, *YD2I*, *YD2U*, *YI2D*, *YI2U*, *YU2D*, *YU2I*

Properties Derived from TBaseReport
Aborted, *AccuracyMethod*, *AscentHeight*, *Bins*, *BKColor*, *Bold*, *BottomWaste*, *BoxLineColor*, *Canvas*, *Collate*, *ColumnEnd*, *ColumnLinesLeft*, *ColumnNum*, *Columns*, *ColumnStart*, *ColumnWidth*, *Copies*, *CurrentPage*, *CurrentPass*, *CursorXPos*, *CursorYPos*, *DescentHeight*, *DeviceName*, *DevMode*, *DriverName*, *Duplex*, *FileName*, *FirstPage*, *FontAlign*, *FontBaseline*, *FontBottom*, *FontCharset*, *FontColor*, *FontHandle*, *FontHeight*, *FontName*, *FontPitch*, *FontRotation*, *Fonts*, *FontSize*, *FontTop*, *FontWidth*, *FrameMode*, *GridVert*, *Italic*, *LastPage*, *LeftWaste*, *LineBottom*, *LineHeight*, *LineHeightMethod*, *LineMiddle*, *LineNum*, *LinesPerInch*, *LineTop*, *MacroData*, *MarginBottom*, *MarginLeft*, *MarginRight*, *MarginTop*, *MaxCopies*, *NoBufferLine*, *NoNTColorFix*, *NoPrinterPageHeight*, *NoPrinterPageWidth*, *Orientation*, *OriginX*, *OriginY*, *OutputInvalid*, *OutputName*, *PageHeight*, *PageInvalid*, *PageWidth*, *Papers*, *PIVar*, *Port*, *PrinterIndex*, *Printers*, *Printing*, *ReportDateTime*, *RightWaste*, *ScaleX*, *ScaleY*, *SectionBottom*, *SectionLeft*, *SectionRight*, *SectionTop*, *Selection*, *ShadowDepth*, *StatusFormat*, *StatusLabel*, *StatusText*, *Stream*, *StreamMode*, *Strikeout*, *Subscript*, *Superscript*, *TabColor*, *TabJustify*, *TabShade*, *TextBKMode*, *Title*, *TopWaste*, *TotalPasses*, *TransparentBitmaps*, *TruncateText*, *Underline*, *Units*, *UnitsFactor*, *XDPI*, *XPos*, *YDPI*, *YPos*

Properties Derived from TRpComponent
Version

2.3 TDbMemoBuf

Unit
RpDBUtil

Hierarchy

TComponent
|
TRpComponent
|
TMemoBuf
|
TDbMemoBuf

Description
This class adds TMemoField processing to the TMemoBuf class through the *Field* and *RTFField* properties.

Methods Derived from TMemoBuf
Append, *AppendMemoBuf*, *ConstraintHeightLeft*, *Delete*, *Empty*, *FreeSaved*, *InsertMemoBuf*, *Insert*, *LoadFromFile*, *LoadFromStream*, *MemoHeightLeft*, *MemoLinesLeft*, *PrintHeight*, *PrintLines*, *ReplaceAll*, *Reset*, *RestoreBuffer*, *RestoreState*, *RTFLoadFromFile*, *RTFLoadFromStream*, *SaveBuffer*, *SaveState*, *SaveToStream*, *SearchFirst*, *SearchNext*, *SetData*

Properties Derived from TMemoBuf
BaseReport, *Buffer*, *BufferInc*, *Field*, *Justify*, *MaxSize*, *Memo*, *NoCRLF*, *NoNewLine*, *Pos*, *PrintEnd*, *PrintStart*, *RichEdit*, *RTFField*, *RTFText*, *Size*, *Text*

Properties Derived from TRpComponent
Version

2.4 TMemoBuf

Unit
RpMemo

Hierarchy

TComponent
|
TRpComponent
|
TMemoBuf

Description
TMemoBuf provides access to the code based word wrapping functionality of Rave. TMemoBuf allows text to be loaded into it via several different properties and methods. Output can then be processed using methods such as *PrintLines* or *PrintHeight*.

Methods Derived from TMemoBuf
Append, *AppendMemoBuf*, *ConstraintHeightLeft*, *Delete*, *Empty*, *FreeSaved*, *InsertMemoBuf*, *Insert*, *LoadFromFile*, *LoadFromStream*, *MemoHeightLeft*, *MemoLinesLeft*, *PrintHeight*, *PrintLines*, *ReplaceAll*, *Reset*, *RestoreBuffer*, *RestoreState*, *RTFLoadFromFile*, *RTFLoadFromStream*, *SaveBuffer*, *SaveState*, *SaveToStream*, *SearchFirst*, *SearchNext*, *SetData*

Properties Derived from TMemoBuf
BaseReport, *Buffer*, *BufferInc*, *Field*, *Justify*, *MaxSize*, *Memo*, *NoCRLF*, *NoNewLine*, *Pos*, *PrintEnd*, *PrintStart*, *RichEdit*, *RTFField*, *RTFText*, *Size*, *Text*

Properties Derived from TRpComponent
Version

2.5 TRpBarsBase

Unit
RpBars

Hierarchy

TObject
|
TRpBarsBase

Description
This is the base class for all bar code output classes and provides basic bar processing and drawing functionality.

Methods Derived from TRpBarsBase
Create, *IsValidChar*, *Print*, *PrintFimA*, *PrintFimB*, *PrintFimC*, *PrintXY*

Properties Derived from TRpBarsBase
BarBottom, *BarCodeJustify*, *BarCodeRotation*, *BarHeight*, *BarTop*, *BarWidth*, *BaseReport*, *Bottom*, *Center*, *CheckSum*, *CodePage*, *Extended*, *ExtendedText*, *Height*, *Left*, *Position*, *PrintChecksum*, *PrintReadable*, *PrintTop*, *ReadableHeight*, *Right*, *Text*, *TextJustify*, *Top*, *UseCheckSum*, *WideFactor*, *Width*

2.6 TRpBaseComponent

Unit
RpBase

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent

Description
TRpBaseComponent is the ancestor class for all output related components in Rave. Non-output related components will descend from TRpComponent instead of TRpBaseComponent.

Property Derived from TRpComponent
Version

2.7 TRpComponent

Unit
RpDefine

Hierarchy

TComponent
|
TRpComponent

Description
This is the base class for all Rave components. TRpComponent defines the Version property.

Properties Derived from TRpComponent
Version

2.8 TRpRender

Unit
RpRender

Hierarchy

TComponent
|
TRpComponent
|
TRpRender

Description
This is the base class for all rendering components and provides basic connectivity to the NDR conversion functions and output methods.

Properties Derived from TRpRender
Active, *BufferDocument*, *CacheDir*, *DisplayName*, *ImageQuality*, *MetafileDPI*, *OnCompress*, *ServerMode*, *UseCompression*

Properties Derived from TRpComponent
Version

2.9 TRpRenderCanvas

Unit
RpRenderCanvas

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRpRenderCanvas

Description
This class provides basic connectivity to the output methods to a TCanvas object. TRvRenderPrinter and TRvRenderPreview descend from this class.

Derived from TRpRender
Active, *CacheDir*, *DisplayName*, *ImageQuality*, *MetafileDPI*, *OnCompress*, *ServerMode*, *UseCompression*

Derived from TRpComponent
Version

2.10 TRpRenderStream

Unit
RpRender

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream

Description
This class provides basic streaming functionality to the basic TRpRender class.

Derived from TRpRender
Active, *CacheDir*, *DisplayName*, *ImageQuality*, *MetafileDPI*, *OnCompress*, *ServerMode*, *UseCompression*

Derived from TRpComponent
Version

Components

Chapter III

3 Components

A component is defined as something placed on the page, such as a barcode, line, region, shape, etc. The components available in Rave can be found on any of the component toolbars (e.g. Standard, Drawing, Report and Barcode).

The toolbars are made available by clicking on the Tools menu followed by the Toolbars menu. The available toolbars will then be shown in another submenu and will have check marks showing the toolbars that are currently visible. Once a component toolbar is active and selected, a component can be selected and placed on the page. The Page is a special base component, and more details are given in the Page Designer chapter.

Special properties are associated with each component. These component properties can be seen using the Property Panel. Set the properties of each component to the desired setting by either typing the setting in a text dialog, using a drop down menu, or by using the special ellipse (…) button to get to the property dialog box.

There are many properties associated with each component, but don't be intimidated by the number of properties. The properties are there to allow adjustment for a component's behavior and in many cases the default settings are adequate. Also, please note that the number of properties listed with each component may vary depending on the user level that has been set under preferences. To adjust the user's level, please visit the environment tab in the preferences dialog. See the Preferences chapter for more details.

Since there are many properties associated with each component, this chapter will focus mainly on the component toolbars rather than their associated properties. Property details are listed in Appendix D. The current chapter provides a good overview of what each component toolbar does without too much detail about the property specifics. Do note that many components share common properties, so once the common properties are learned for one component, they can be applied to other properties.

Components are also defined by their relationship relative to other components. This relationship is defined by a parent-child relationship. When a text component is placed on the page, the parent is the page component and the child is the text component. Another way to look at it is that the page contains the text component, thus the parent component contains the child component.

The parent-child relationship also extends into the positioning of the components. All positions are relative to the upper left corner of the parent, thus the Left property and Top property are used to define the relative position of a component. If the parent is like a Section component, which can contain any number of other components; then as the parent component is moved around, it's children components will move accordingly. If the parent component is deleted, all of its children will also be deleted.

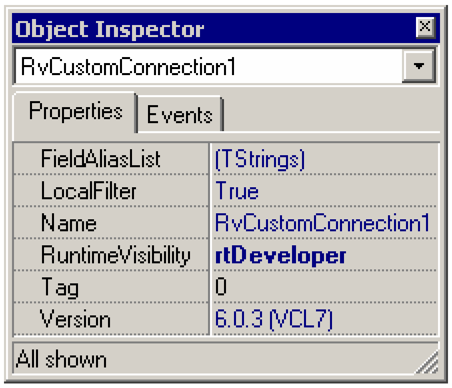
3.1 TRvCustomConnection

Unit

RpCon

Hierarchy

TComponent
|
TRpComponent
|
TRvCustomConnection


Object Inspector

RvCustomConnection1

Properties | Events

FieldAliasList	(TStrings)
LocalFilter	True
Name	RvCustomConnection1
RuntimeVisibility	**rtDeveloper**
Tag	0
Version	6.0.3 (VCL7)

All shown

Description
Through the events in the data connection components, you can customize how the data is sent to your Rave reports. For non-database data using the TRvCustomConnection component, you will need to provide all access to your data through these events. For database data connection components such as TRvDataSetConnection, you will normally only want to override the OnValidateRow event.

NOTE:
The TRvCustomConnection component has a DataIndex and DataRows property of type integer. These are provided for use by custom connector events and if used, can alleviate the need to define the OnFirst, OnNext and OnEOF events. DataIndex is intended to be used as the data cursor position with 0 representing the first row. DataRows is intended to be used as the row count of the data. For example, if you were defining a custom data connection for a memory array, you would only need to initialize the Connection.DataRows property to the number of elements in the memory array and then let Rave handle the OnFirst, OnNext and OnEOF events. In the OnGetRow event you would then access the Connection. DataIndex property to determine which array element to pass back (remember that DataIndex is 0 for the first row).

Properties from TRvCustomConnection
FieldAliasList *LocalFilter* *RuntimeVisibility*

Properties from TRpComponent
Version

Methods from TRvCustomConnection
WriteBCDData *WriteBlobData* *WriteBoolData* *WriteCurrData* *WriteDateTime* *WriteFloatData* *WriteIntData* *WriteNullData* *WriteStrData*

Events from TRvCustomConnection
OnEOF *OnFirst* *OnGetCols* *OnGetRow* *OnGetSorts* *OnNext* *OnOpen* *OnRestore* *OnSetFilter* *OnSetSort* *OnValidateRow*

3.2 TRvDataSetConnection

Unit

RpConDS

Hierarchy

TComponent
|
TRpComponent
|
TRvCustomConnection
|
TRvDataSetConnection

Description
Data connection components - Rave uses data from your application. This is accomplished with data connection components, TRvCustomConnection, TRvDataSetConnection, TRvTableConnection and TRvQueryConnection to provide a bridge between the data in your application and the Rave visual components.

TRvCustomConnection component can be used to access **non-database data** such as memory arrays or binary record files.

TRvDataSetConnection can be used to provide access to **TDataSet** descendent components including 3rd party dataset components.

TRvTableConnection is to be used specifically with **TTable** components or their descendent's respectively.

TRvQueryConnection is to be used specifically with **TQuery** components or their descendent's respectively.

Events Derived from TRvCustomConnection
OnEOF, *OnFirst*, *OnGetCols*, *OnGetRow*, *OnGetSorts*, *OnNext*, *OnOpen*, *OnRestore*, *OnSetFilter*, *OnSetSort*, *OnValidateRow*

Methods Derived from TRvCustomConnection
WriteBCDData, *WriteBlobData*, *WriteBoolData*, *WriteCurrData*, *WriteDateTime*, *WriteFloatData*, *WriteIntData*, *WriteNullData*, *WriteStrData*

Properties Derived from TRvDataSetConnection
DataSet

Properties Derived from TRvCustomConnection
FieldAliasList, *LocalFilter*, *RuntimeVisibility*

Properties Derived from TRpComponent
Version

3.3 TRvNDRWriter

Unit

RpFiler

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent
|
TBaseReport
|
TRvNDRWriter

Description
The TRvNDRWriter component is used in conjunction with TRvRenderPrinter and TRvRenderPreview to store a report in a special binary format until it is ready to be printed or previewed.

Properties and Events
TRvNDRWriter has properties and events to control file output. AccuracyMethod determines the way that strings are output for more accurate print preview. FileName is the file that will be created if StreamMode is anything other than smUser. Use smFile for large reports (>10 pages or lots of bitmaps) and smMemory for smaller reports (< 10 pages). To send a report to a file call the Execute method.

NOTE:
The binary file that TRvNDRWriter creates does not contain actual printer commands (such as PCL) but rather a custom tokenized version of the report. This format is not officially documented but the source code that writes the file is located in RpFBASE.PAS and RpFILER.PAS and the source code that reads the file is located in RpFPRINT.PAS. These files should be located in \RAVE\SOURCE.

Events Derived from TBaseReport
OnAfterPrint, *OnBeforePrint*, *OnDecodeImage*, *OnNewColumn*, *OnNewPage*, *OnPrint*, *OnPrintFooter*, *OnPrintHeader*, *OnPrintPage*

Methods Derived from TBaseReport
Abort, AbortPage, AdjustLine, AllowAll, AllowPreviewOnly, AllowPrinterOnly, Arc, AssignFont, BrushCopy, CalcGraphicHeight, CalcGraphicWidth, Chord, ClearAllTabs, ClearColumns, ClearTabs, CopyRect, CR, Create, CreateBrush, CreateFont, CreatePen, CreatePoint, CreateRect, Destroy, DrawFocusRect, Draw, Ellipse, Execute, FillRect, Finish, FinishTabBox, FloodFill, FrameRect, GetMemoLine, GetNextLine, GetTab, GotoFooter, GotoHeader, GotoXY, GraphicFieldToBitmap, Home, LF, LinesLeft, LineTo, Macro, MemoLines, MoveTo, NewColumn, NewLine, NewPage, NoPrinters, Pie, Polygon, Polyline, PopFont, PopPos, PopTabs, Print, PrintBitmap, PrintBitmapRect, PrintBlock, PrintCenter, PrintCharJustify, PrintData, PrintDataStream, PrintFooter, PrintHeader, PrintImageRect, PrintJustify, PrintLeft, PrintLn, PrintMemo, PrintRight, PrintTab, PrintXY, PushFont, PushPos, PushTabs, RecoverPrinter, Rectangle, RegisterGraphic, ReleasePrinter, Reset, ResetLineHeight, ResetPrinter, ResetSection, ResetTabs, RestoreFont, RestorePos, RestoreTabs, ReuseGraphic, RoundRect, SaveFont, SavePos, SaveTabs, SelectBin, SelectPaper, SelectPrinter, SetBrush, SetColumns, SetColumnWidth, SetFont, SetPaperSize, SetPen, SetPIVar, SetTab, SetTopOfPage, ShadeToColor, ShowPrintDialog, ShowPrinterSetupDialog, Start, StretchDraw, SupportBin, SupportCollate, SupportDuplex, SupportOrientation, SupportPaper, Tab, TabEnd, TabStart, TabWidth, TextRect, TextWidth, UnregisterGraphic, UpdateStatus, XD2U, XI2D, XI2U, XU2D, XU2I, YD2I, YD2U, YI2D, YI2U, YU2D, YU2I

Properties Derived from TBaseReport
Aborted, AccuracyMethod, AscentHeight, Bins, BKColor, Bold, BottomWaste, BoxLineColor, Canvas, Collate, ColumnEnd, ColumnLinesLeft, ColumnNum, Columns, ColumnStart, ColumnWidth, Copies, CurrentPage, CurrentPass, CursorXPos, CursorYPos, DescentHeight, DeviceName, DevMode, DriverName, Duplex, FileName, FirstPage, FontAlign, FontBaseline, FontBottom, FontCharset, FontColor, FontHandle, FontHeight, FontName, FontPitch, FontRotation, Fonts, FontSize, FontTop, FontWidth, FrameMode, GridVert, Italic, LastPage, LeftWaste, LineBottom, LineHeight, LineHeightMethod, LineMiddle, LineNum, LinesPerInch, LineTop, MacroData, MarginBottom, MarginLeft, MarginRight, MarginTop, MaxCopies, NoBufferLine, NoNTColorFix, NoPrinterPageHeight, NoPrinterPageWidth, Orientation, OriginX, OriginY, OutputInvalid, OutputName, PageHeight, PageInvalid, PageWidth, Papers, PIVar, Port, PrinterIndex, Printers, Printing, ReportDateTime, RightWaste, ScaleX, ScaleY, SectionBottom, SectionLeft, SectionRight, SectionTop, Selection, ShadowDepth, StatusFormat, StatusLabel, StatusText, Stream, StreamMode, Strikeout, Subscript, Superscript, TabColor, TabJustify, TabShade, TextBKMode, Title, TopWaste, TotalPasses, TransparentBitmaps, TruncateText, Underline, Units, UnitsFactor, XDPI, XPos, YDPI, YPos

Properties Derived from TRpComponent
Version

3.4 TRvProject

Unit

RpRave

Hierarchy

TComponent
|
TRpComponent
|
TRvProject

Description
The TRvProject component is the key to providing access to the visual reports you create with Rave. Normally you will have a single TRvProject component in your application, although you can have more if necessary. The ProjectFile property defines the report project file that your application uses to hold the report definitions. This file will have an extension of .RAV and even though it is a single file, it can contain as many report definitions as you need. When the Open method of TRaveReport is called, this report project file will be loaded into memory to prepare for printing or end-user design changes. You should make sure that the Close method is called when you no longer need the report project or before you close your application. If any changes are made to the report project you can save them by calling the Save method. TRvProject also has several properties and methods, such as SelectReport, GetReportList, ReportDescToMemo, ReportDesc, ReportName and ReportFullName to make it easy to create an efficient interface for your users. See the RAVEDEMO project for a good example of how to define a Rave interface.

The Engine property of TRvProject allows you to define an alternate output engine to be used. This allows you to output Rave reports through the Text, RTF or HTML filer components or to define custom setup and preview screens through the TRvSystem component.

TRvProject Events
OnAfterClose, *OnAfterOpen*, *OnBeforeClose*, *OnBeforeOpen*, *OnCreate*, *OnDesignerSave*, *OnDesignerSaveAs*, *OnDesignerShow*, *OnDestroy*

TRvProject Methods
ClearRaveBlob, *Close*, *Design*, *DesignReport*, *Execute*, *ExecuteReport*, *GetParam*, *GetReportCategoryList*, *GetReportList*, *LoadFromFile*, *LoadFromStream*, *LoadRaveBlob*, *Open*, *ReportDescToMemo*, *Save*, *SaveRaveBlob*, *SaveToFile*, *SaveToStream*, *SelectReport*, *SetParam*

TRvProject Properties
Active, *DLLFile*, *Engine*, *LoadDesigner*, *ProjectFile*, *RaveBlobDateTime*, *ReportDesc*, *ReportFullName*, *ReportName*, *StoreRAV*

TRpComponent Properties
Version

3.5 TRvQueryConnection

Unit

RpConBDE

Hierarchy

TRvCustomDataSetConnection
|
TRvQueryConnection

Description
Data connection components - Rave uses data from your application. This is accomplished with data connection components, TRvCustomConnection, TRvDataSetConnection, TRvTableConnection and TRvQueryConnection to provide a bridge between the data in your application and the Rave visual components.

TRvCustomConnection component can be used to access **non-database data** such as memory arrays or binary record files.

TRvDataSetConnection can be used to provide access to **TDataSet** descendent components including 3rd party dataset components.

TRvTableConnection is to be used specifically with **TTable** components or their descendent's respectively.

TRvQueryConnection is to be used specifically with **TQuery** components or their descendent's respectively.

Properties Derived from TRvQueryConnection
Query

3.6 TRvRenderBitmap

Unit

RvRenderBitmap

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderBitmap

Description
TRvRenderBitmap will convert an NDR stream or file to a bitmap graphic image format. Each page in the report will be generated to a separate formatted file.

Properties Derived from TRpRender
Active , DisplayName , FileExtension , ImageDPI

Properties Derived from TRpComponent
Version

3.7 TRvRenderHTML

Unit

RvRenderHTML

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderHTML

Description
TRvRenderHTML will convert an NDR stream or file to HTML format. Each page in the report will be generated to an HTML 4.0 formatted file. Text, graphic, line and rectangle objects are supported.

Properties Derived from TRpRender
Active, CacheDir, DisplayName, FileExtension, OnDecodeImage , ServerMode, UseBreakingSpaces

Properties Derived from TRpComponent
Version

removed
ImageQuality, MetafileDPI, OnCompress, UseCompression

3.8 TRvRenderJPEG

Unit

RvRenderJPEG

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderJPEG

Description
TRvRenderJPEG will convert an NDR stream or file to a JPEG graphic image format. Each page in the report will be generated to a separate formatted file.

Properties Derived from TRpRender
Active , CompressionQuality , DisplayName , FileExtension , ImageDPI

Properties Derived from TRpComponent
Version

3.9 TRvRenderMetafile

Unit

RvRenderMetafile

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderMetafile

Description
TRvRenderMetafile will convert an NDR stream or file to a Windows Metafile graphic image format. Each page in the report will be generated to a separate formatted file.

Properties Derived from TRpRender
Active , DisplayName , Enhanced, FileExtension , ImageDPI

Properties Derived from TRpComponent
Version

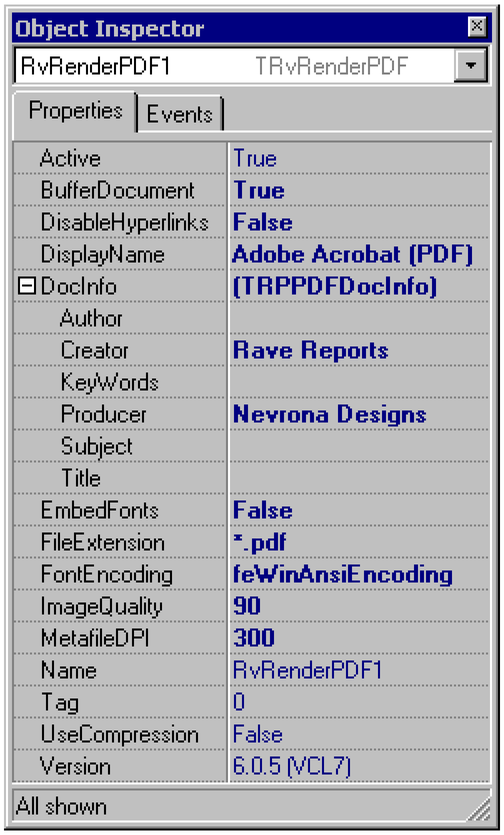
3.10 TRvRenderPDF

Unit

RvRenderPDF

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderPDF


Object Inspector

RvRenderPDF1 TRvRenderPDF

Active	True
BufferDocument	True
DisableHyperlinks	False
DisplayName	Adobe Acrobat (PDF)
⊟ DocInfo	(TRPPDFDocInfo)
Author	
Creator	Rave Reports
KeyWords	
Producer	Nevrona Designs
Subject	
Title	
EmbedFonts	False
FileExtension	*.pdf
FontEncoding	feWinAnsiEncoding
ImageQuality	90
MetafileDPI	300
Name	RvRenderPDF1
Tag	0
UseCompression	False
Version	6.0.5 (VCL7)

All shown

Description
TRvRenderPDF will convert an NDR stream or file to PDF format. Text, graphic, line and shape (rectangle, ellipse) objects are supported.

Properties Derived from TRpRender
Active, BufferDocument , DisableHyperlinks , DisplayName, DocInfo , EmbedFonts , FileExtension , FontEncoding , ImageQuality, MetafileDPI, OnCompress, OnDecodeImage , UseCompression

Properties Derived from TRpComponent
Version

CacheDir, ServerMode,

3.11 TRvRenderPreview

Unit

RvRenderPreview

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent
|
TBaseReport
|
TCanvasReport
|
TRvRenderPrinter
|
TRvRenderPreview

Description

The TRvRenderPreview component takes a file generated by a TRvNDRWriter component and sends it to the screen for previewing. TRvRenderPreview has many methods and events that allow the programmer to create a completely customized user interface.

Properties

ScrollBox defines the TScrollBox component that the report will be drawn in. *FileName* and *StreamMode* are used in the same manner as TRvNDRWriter and TRvRenderPreview. *GridHoriz* and *GridVert* define the horizontal and vertical spacing, in inches or metric, between each grid marking drawn with *GridPen*. *RulerType* along with the grid settings can be useful during report development for determining accurate placement of items without having to produce printed output. *MarginMethod* and *MarginPercent* determine the method and size of the blank margin around the page image. *ShadowDepth* defines the number of pixels for the page shadow. *Monochrome* defines whether the output is drawn on a monochrome or color bitmap. are skipped when calling *NextPage* or *PrevPage*. *ZoomInc* defines the amount that *ZoomIn* and *ZoomOut* will use to modify the current zoom percentage, *ZoomFactor*.

Events

OnPageChange is called whenever the current page is changed and allows the programmer to update the user interface with the new current page number. *OnZoomChange* is called whenever the current zoom factor, *ZoomFactor*, is changed and allows the programmer to update the user interface with the new zoom factor.

Events Derived from TRvRenderPreview

OnPageChange, *OnZoomChange*

Events Derived from TBaseReport

OnAfterPrint, *OnBeforePrint*, *OnDecodeImage*, *OnNewColumn*, *OnNewPage*, *OnPrint*, *OnPrintFooter*, *OnPrintHeader*, *OnPrintPage*

Methods Derived from TRvRenderPreview

Clear, *ExecuteCustom*, *NextPage*, *PrevPage*, *PrintPage*, *RedrawPage*, *XD2I*, *ZoomIn*, *ZoomOut*

Methods Derived from TBaseReport
Abort, AbortPage, AdjustLine, AllowAll, AllowPreviewOnly, AllowPrinterOnly, Arc, AssignFont, BrushCopy, CalcGraphicHeight, CalcGraphicWidth, Chord, ClearAllTabs, ClearColumns, ClearTabs, CopyRect, CR, Create, CreateBrush, CreateFont, CreatePen, CreatePoint, CreateRect, Destroy, DrawFocusRect, Draw, Ellipse, Execute, FillRect, Finish, FinishTabBox, FloodFill, FrameRect, GetMemoLine, GetNextLine, GetTab, GotoFooter, GotoHeader, GotoXY, GraphicFieldToBitmap, Home, LF, LinesLeft, LineTo, Macro, MemoLines, MoveTo, NewColumn, NewLine, NewPage, NoPrinters, Pie, Polygon, Polyline, PopFont, PopPos, PopTabs, Print, PrintBitmap, PrintBitmapRect, PrintBlock, PrintCenter, PrintCharJustify, PrintData, PrintDataStream, PrintFooter, PrintHeader, PrintImageRect, PrintJustify, PrintLeft, PrintLn, PrintMemo, PrintRight, PrintTab, PrintXY, PushFont, PushPos, PushTabs, RecoverPrinter, Rectangle, RegisterGraphic, ReleasePrinter, Reset, ResetLineHeight, ResetPrinter, ResetSection, ResetTabs, RestoreFont, RestorePos, RestoreTabs, ReuseGraphic, RoundRect, SaveFont, SavePos, SaveTabs, SelectBin, SelectPaper, SelectPrinter, SetBrush, SetColumns, SetColumnWidth, SetFont, SetPaperSize, SetPen, SetPIVar, SetTab, SetTopOfPage, ShadeToColor, ShowPrintDialog, ShowPrinterSetupDialog, Start, StretchDraw, SupportBin, SupportCollate, SupportDuplex, SupportOrientation, SupportPaper, Tab, TabEnd, TabStart, TabWidth, TextRect, TextWidth, UnregisterGraphic, UpdateStatus, XD2U, XI2D, XI2U, XU2D, XU2I, YD2I, YD2U, YI2D, YI2U, YU2D, YU2I

Properties Derived from TRvRenderPreview
MarginMethod, MarginPercent, Monochrome, PageInc, Pages, ScrollBox, ZoomFactor, ZoomInc, ZoomPageFactor, ZoomPageWidthFactor

Properties Derived from TRvRenderPrinter
IgnoreFileSettings

Properties Derived from TBaseReport
Aborted, AccuracyMethod, AscentHeight, Bins, BKColor, Bold, BottomWaste, BoxLineColor, Canvas, Collate, ColumnEnd, ColumnLinesLeft, ColumnNum, Columns, ColumnStart, ColumnWidth, Copies, CurrentPage, CurrentPass, CursorXPos, CursorYPos, DescentHeight, DeviceName, DevMode, DriverName, Duplex, FileName, FirstPage, FontAlign, FontBaseline, FontBottom, FontCharset, FontColor, FontHandle, FontHeight, FontName, FontPitch, FontRotation, Fonts, FontSize, FontTop, FontWidth, FrameMode, GridVert, Italic, LastPage, LeftWaste, LineBottom, LineHeight, LineHeightMethod, LineMiddle, LineNum, LinesPerInch, LineTop, MacroData, MarginBottom, MarginLeft, MarginRight, MarginTop, MaxCopies, NoBufferLine, NoNTColorFix, NoPrinterPageHeight, NoPrinterPageWidth, Orientation, OriginX, OriginY, OutputInvalid, OutputName, PageHeight, PageInvalid, PageWidth, Papers, PIVar, Port, PrinterIndex, Printers, Printing, ReportDateTime, RightWaste, ScaleX, ScaleY, SectionBottom, SectionLeft, SectionRight, SectionTop, Selection, ShadowDepth, StatusFormat, StatusLabel, StatusText, Stream, StreamMode, Strikeout, Subscript, Superscript, TabColor, TabJustify, TabShade, TextBKMode, Title, TopWaste, TotalPasses, TransparentBitmaps, TruncateText, Underline, Units, UnitsFactor, XDPI, XPos, YDPI, YPos

Properties Derived from TRpComponent
Version

3.12 TRvRenderPrinter

Unit

RvRenderPrinter

Hierarchy

TComponent
|
TRpComponent
|
TRpBaseComponent
|
TBaseReport
|
TCanvasReport
|
TRvRenderPrinter

Description
The TRvRenderPrinter component takes a file generated by a TRvNDRWriter component and sends it to the current printer. TRvRenderPrinter is often used to do a print from the preview screen. TRvRenderPrinter is a simple component but does have methods and properties to customize the selection of what gets printed.

Properties and Events
FileName is the name of the report file generated by TRvNDRWriter if StreamMode is *smMemory* or *smFile*. A stream mode of *smUser* is used when the programmer wants to provide their own stream object (any descendent of TStream will work) by assigning it to the *Stream* property of TRvNDRWriter, TRvRenderPrinter and/or TRvRenderPreview. There are no events for TRvRenderPrinter. To send a report file to the printer call the *Execute* or *ExecuteCustom* methods.

Events Derived from TBaseReport
OnAfterPrint, *OnBeforePrint*, *OnDecodeImage*, *OnNewColumn*, *OnNewPage*, *OnPrint*, *OnPrintFooter*, *OnPrintHeader*, *OnPrintPage*

Methods Derived from TBaseReport
Abort, *AbortPage*, *AdjustLine*, *AllowAll*, *AllowPreviewOnly*, *AllowPrinterOnly*, *Arc*, *AssignFont*, *BrushCopy*, *CalcGraphicHeight*, *CalcGraphicWidth*, *Chord*, *ClearAllTabs*, *ClearColumns*, *ClearTabs*, *CopyRect*, *CR*, *Create*, *CreateBrush*, *CreateFont*, *CreatePen*, *CreatePoint*, *CreateRect*, *Destroy*, *DrawFocusRect*, *Draw*, *Ellipse*, *Execute*, *FillRect*, *Finish*, *FinishTabBox*, *FloodFill*, *FrameRect*, *GetMemoLine*, *GetNextLine*, *GetTab*, *GotoFooter*, *GotoHeader*, *GotoXY*, *GraphicFieldToBitmap*, *Home*, *LF*, *LinesLeft*, *LineTo*, *Macro*, *MemoLines*, *MoveTo*, *NewColumn*, *NewLine*, *NewPage*, *NoPrinters*, *Pie*, *Polygon*, *Polyline*, *PopFont*, *PopPos*, *PopTabs*, *Print*, *PrintBitmap*, *PrintBitmapRect*, *PrintBlock*, *PrintCenter*, *PrintCharJustify*, *PrintData*, *PrintDataStream*, *PrintFooter*, *PrintHeader*, *PrintImageRect*, *PrintJustify*, *PrintLeft*, *PrintLn*, *PrintMemo*, *PrintRight*, *PrintTab*, *PrintXY*, *PushFont*, *PushPos*, *PushTabs*, *RecoverPrinter*, *Rectangle*, *RegisterGraphic*, *ReleasePrinter*, *Reset*, *ResetLineHeight*, *ResetPrinter*, *ResetSection*, *ResetTabs*, *RestoreFont*, *RestorePos*, *RestoreTabs*, *ReuseGraphic*, *RoundRect*, *SaveFont*, *SavePos*, *SaveTabs*, *SelectBin*, *SelectPaper*, *SelectPrinter*, *SetBrush*, *SetColumns*, *SetColumnWidth*, *SetFont*, *SetPaperSize*, *SetPen*, *SetPIVar*, *SetTab*, *SetTopOfPage*, *ShadeToColor*, *ShowPrintDialog*, *ShowPrinterSetupDialog*, *Start*, *StretchDraw*, *SupportBin*, *SupportCollate*, *SupportDuplex*, *SupportOrientation*, *SupportPaper*, *Tab*, *TabEnd*, *TabStart*, *TabWidth*, *TextRect*, *TextWidth*, *UnregisterGraphic*, *UpdateStatus*, *XD2U*, *XI2D*, *XI2U*, *XU2D*, *XU2I*, *YD2I*, *YD2U*, *YI2D*, *YI2U*, *YU2D*, *YU2I*

Properties Derived from TRvRenderPrinter
IgnoreFileSettings

Properties Derived from TBaseReport
Aborted, *AccuracyMethod*, *AscentHeight*, *Bins*, *BKColor*, *Bold*, *BottomWaste*, *BoxLineColor*, *Canvas*, *Collate*, *ColumnEnd*, *ColumnLinesLeft*, *ColumnNum*, *Columns*, *ColumnStart*, *ColumnWidth*, *Copies*, *CurrentPage*, *CurrentPass*, *CursorXPos*, *CursorYPos*, *DescentHeight*, *DeviceName*, *DevMode*, *DriverName*, *Duplex*, *FileName*, *FirstPage*, *FontAlign*, *FontBaseline*, *FontBottom*, *FontCharset*, *FontColor*, *FontHandle*, *FontHeight*, *FontName*, *FontPitch*, *FontRotation*, *Fonts*, *FontSize*, *FontTop*, *FontWidth*, *FrameMode*, *GridVert*, *Italic*, *LastPage*, *LeftWaste*, *LineBottom*, *LineHeight*, *LineHeightMethod*, *LineMiddle*, *LineNum*, *LinesPerInch*, *LineTop*, *MacroData*, *MarginBottom*, *MarginLeft*, *MarginRight*, *MarginTop*, *MaxCopies*, *NoBufferLine*, *NoNTColorFix*, *NoPrinterPageHeight*, *NoPrinterPageWidth*, *Orientation*, *OriginX*, *OriginY*, *OutputInvalid*, *OutputName*, *PageHeight*, *PageInvalid*, *PageWidth*, *Papers*, *PIVar*, *Port*, *PrinterIndex*, *Printers*, *Printing*, *ReportDateTime*, *RightWaste*, *ScaleX*, *ScaleY*, *SectionBottom*, *SectionLeft*, *SectionRight*, *SectionTop*, *Selection*, *ShadowDepth*, *StatusFormat*, *StatusLabel*, *StatusText*, *Stream*, *StreamMode*, *Strikeout*, *Subscript*, *Superscript*, *TabColor*, *TabJustify*, *TabShade*, *TextBKMode*, *Title*, *TopWaste*, *TotalPasses*, *TransparentBitmaps*, *TruncateText*, *Underline*, *Units*, *UnitsFactor*, *XDPI*, *XPos*, *YDPI*, *YPos*

Properties Derived from TRpComponent
Version

3.13 TRvRenderRTF

Unit

RvRenderRTF

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderRTF

Description
TRvRenderRTF will convert an NDR stream or file to an RTF document. Text, graphic, line and rectangle objects are supported.

Properties Derived from TRpRender
Active, DisplayName, FileExtension, ImageEncoding, ImageOutput, OnDecodeImage

Properties Derived from TRpComponent
Version

3.14 TRvRenderText

Unit

RvRenderText

Hierarchy

TComponent
|
TRpComponent
|
TRpRender
|
TRpRenderStream
|
TRvRenderText

Description
TRvRenderText will convert an NDR stream or file to an text document. Only text objects are supported in the output, all other objects will be ignored.

TRpRender Properties
Active, CPI , DisplayName, FileExtension , FormFeed , LeftBorder , LPI, TopBorder

TRpComponent Properties
Version

removed
CacheDir, ImageQuality, MetafileDPI, OnCompress, ServerMode, UseCompression

3.15 TRvSystem

Unit

RpSystem

Hierarchy

TComponent
|
TRpComponent
|
TRvSystem

Description

The TRvSystem component is a very powerful component that integrates the functionality of the previous three components, TRvRenderPreview, TRvRenderPrinter and TRvNDRWriter in one easy to use system. TRvSystem can send a report to the printer or a preview screen and can display a setup and status screen as well.

Properties

DefaultDest is where the report will be sent if no setup screen is used or is the default during setup. *SystemFiler*, which can be accessed by double-clicking on the left column in the Object Inspector, will display all of the filer type options from TRvNDRWriter, TRvRenderPreview and TRvRenderPrinter. All *SystemFiler* options operate the same as the other components except for a stream mode of *smMemory* which does not require a filename and will use a TMemoryStream to contain the report.

The *SystemOptions* properties control the configuration of the TRvSystem component. *soUseFiler* will always send the report to a report file. This can be very useful if the *Macro* method has been used in the report. *soWaitForOK* will determine whether the user has to press the OK button once the report has been generated for output. *soShowStatus* will determine whether or not the status screen is displayed when the report is being generated or printing. *soAllowPrintFromPreview* will determine whether the user can print from the preview screen. *soPreviewModal* determines the modal mode that the preview window is brought up in *soNoGenerate* will skip over the generation phase of the report and proceed straight to the screen. This options should only be used with a *StreamMode* of *smFile* where the report file has been previously generated and needs only to be viewed or printed.

SystemPreview displays all of the preview type options found in TRvRenderPreview. *SystemPrinter* displays all of the printer type options found in TRvNDRWriter.

The *SystemSetups* properties control the configuration of the standard setup screen for TRvSystem. *ssAllowSetup* will determine whether or not the setup screen is displayed. *ssAllowCopies*, *ssAllowCollate* and *ssAllowDuplex* will enable those options in the setup screen. *ssAllowDestPreview*, *ssAllowDestPrinter* and *ssAllowDestFile* will determine which destination options the user has access to. *ssAllowPrinterSetup* will determine whether the user can select the printer setup dialog which allows the selection of alternate printers and other printer options. *ssAllowPreviewSetup* determines whether the user will be allowed to select the printer setup dialog after preview.

from TRvSystem

BaseReport *DefaultDest* *GridHoriz* *GridPen* *OutputFileName* *ReportDest* *RulerType* *SystemFiler* *SystemOptions* *SystemPreview* *SystemPrinter* *SystemSetups* *TitlePreview* *TitleSetup* *TitleStatus*

from TRpComponent

Version

Events
All of the OnXxxx events for TRvSystem operate exactly like they do for TRvNDRWriter. The override events, *OverridePreview*, *OverrideSetup* and *OverrideStatus* allow the programmer to replace the default screens provided with Rave with their own. There is no printed documentation on how to do this but the TRvSystem component uses the same method as a user would have to. Reference the methods *OverridePreviewProc*, *OverrideStatusProc* and *OverrideSetupProc* for how to create an override event method. The units RpFormPreview, RpFormStatus and RpFormSetup located in \RAVE\SOURCE will also show how to interface with TRvSystem and can be used as starting points for customized versions of the different forms.

from TRvSystem
OnPreviewSetup *OnPreviewShow* *OverridePreview* *OverrideSetupOverrideStatus*

3.16 TRvTableConnection

Unit

RpConBDE

Hierarchy

TComponent
|
TRpComponent
|
TRvCustomConnection
|
TRvTableConnection

Description
Data connection components - Rave uses data from your application. This is accomplished with data connection components, TRvCustomConnection, TRvDataSetConnection, TRvTableConnection and TRvQueryConnection to provide a bridge between the data in your application and the Rave visual components.

TRvCustomConnection component can be used to access **non-database data** such as memory arrays or binary record files.

TRvDataSetConnection can be used to provide access to **TDataSet** descendent components including 3rd party dataset components.

TRvTableConnection is to be used specifically with **TTable** components or their descendents respectively.

TRvQueryConnection is to be used specifically with **TQuery** components or their descendents respectively.

Events Derived from TRvCustomConnection
OnEOF, *OnFirst*, *OnGetCols*, *OnGetRow*, *OnGetSorts*, *OnNext*, *OnOpen*, *OnRestore*, *OnSetFilter*, *OnSetSort*
, *OnValidateRow*

Methods Derived from TRvCustomConnection
WriteBCDData, *WriteBlobData*, *WriteBoolData*, *WriteCurrData*, *WriteDateTime*, *WriteFloatData*, *WriteIntData*, *WriteNullData*, *WriteStrData*

Properties Derived from TRvTableConnection
Table, *UseSetRange*

Properties Derived from TRvCustomConnection
FieldAliasList, *LocalFilter*, *RuntimeVisibility*

Properties Derived from TRpComponent
Version

Events

Chapter IV

4 Events

An event is a mechanism that links an occurrence to some code. More specifically, an event is a method pointer that points to a method in a specific class instance.

4.1 OnAfterClose

Declaration
procedure OnAfterClose(Sender: TObject);

Category
Rave

Description
This event will be called immediately after the Rave project is closed.

See also
TRvProject Class, *Active*, *Close*, *OnAfterOpen*, *OnBeforeClose*, *OnBeforeOpen*, *Open*

4.2 OnAfterOpen

Declaration
procedure OnAfterOpen(Sender: TObject);

Category
Rave

Description
This event will be called immediately after the Rave project is opened.

See also
TRvProject Class, *Active*, *Close*, *OnAfterClose*, *OnBeforeClose*, *OnBeforeOpen*, *Open*

4.3 OnAfterPrint

Declaration
```
procedure OnAfterPrint(Sender: TObject)
```

Category
Control

Description
This event will be called after each print job has finished printing, even if the print job was aborted or an exception has been generated. This can be useful for cleaning up resources that were allocated in *OnBeforePrint*.

See also
TBaseReport Class, *Execute*, *OnBeforePrint*

Example (Delphi)
```
procedure TReportForm.AfterPrintReport2(Sender: TObject);
begin { AfterPrintReport2 }
  CustomerTable.Close;
end;  { AfterPrintReport2 }
```

Example (C++Builder)
```
void __fastcall TReportForm:: AfterPrintReport2 (TObject *Sender)
{
  CustomerTable->Close();
}
```

4.4 OnBeforeClose

Declaration

procedure OnBeforeClose(Sender: TObject);

Category

Rave

Description

This event will be called immediately before the Rave project is closed.

See also

TRvProject Class, *Active*, *Close*, *OnAfterClose*, *OnAfterOpen*, *OnBeforeOpen*, *Open*

4.5 OnBeforeOpen

Declaration

procedure OnBeforeOpen(Sender: TObject);

Category

Rave

Description

This event will be called immediately before the Rave project is opened.

See also

TRvProject Class, *Active*, *Close*, *OnAfterClose*, *OnAfterOpen*, *OnBeforeClose*, *Open*

4.6 OnBeforePrint

Declaration

```
procedure OnBeforePrint(Sender: TObject);
```

Category

Control

Description

This event is called before the print job has begun. This can be useful to initialize non-report items such as table record pointers. This event can also be useful to set report items that must be set before the print job begins (such as paper size and orientation).

See also

TBaseReport Class, *Execute*, *OnAfterPrint*

Example (Delphi)

```
procedure TReportForm.BeforePrintReport5(Sender: TObject);
begin { BeforePrintReport5 }
  with Sender as TBaseReport do begin
    StatusFormat := 'Printing Page '#13''#13'';
    StatusText.Add('');
    StatusText.Add('');
  end; { with }
  CustomerTable.First;
end;  { BeforePrintReport5 }
```

Example (C++Builder)

```
void __fastcall TReportForm:: BeforePrintReport5 (TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  rp1->StatusFormat = "Printing Page \n\n";
  rp1->StatusText->Add("");
     rp1->StatusText->Add("");
  CustomerTable->First();
} / BeforePrintReport5
```

4.7 OnCreate

Declaration

procedure OnCreate(Sender: TObject);

Category

Rave

Description

This event is called when the TRvProject is created. This is the normal place to register custom Rave components by calling the RaveRegister procedure for the unit containing the custom Rave components. See the tutorials for more information.

See also

TRvProject Class, *OnDestroy*

4.8 OnDecodeImage

Declaration

```
procedure OnDecodeImage( Sender: TObject); ImageStream: TStream; ImageType:
String; Bitmap: TBitmap );
```

Category

Graphics HTML PDF RTF

Description

This event is called when Rave needs to convert image data (created from the PrinitImageRect method) to a bitmap for printing. This would normally appear on a TRvRenderPrinter or TRvRenderPreview component, but could also be defined in a TRvSystem component.

See also

TBaseReport Class, *PrintImageRect*

Example (Delphi)

```
var
  Image: TJPEGImage;
  Format: word;
  Data: THandle;
  Palette: HPalette;
if ImageType = 'JPG' then begin
  Image := TJPEGImage.Create;        // Create a TJPEGImage class
  Image.LoadFromStream(ImageStream); // Load JPEG image from ImageStream
  Image.DIBNeeded;                   // Convert JPEG to bitmap format
  // Save JPEG to clipboard in bitmap format
  Image.SaveToClipboardFormat(Format,Data,Palette);
  Image.Free;                        // Free the image
  // Load bitmap from clipboard
  Bitmap.LoadFromClipboardFormat(Format,Data,Palette);
end; { if}
```

Example (C++Builder)

```
if (ImageType == "JPG") {
  Image = new TJPEGImage();              // Create a JPEGImage class
  Image->LoadFromStream(ImageStream);   // Load JPEG image from ImageStream
  Image->DIBNeeded();                   // Convert JPEG to bitmap format
  // Save JPEG to clipboard in bitmap format
  Image->SaveToClipboardFormat(Format,Data,Palette);
  delete Image;                         // Free the image
  // Load bitmap from clipboard
  Bitmap->LoadFromClipboardFormat(Format,Data,Palette);
} // if
```

4.9 OnDesignerSave

Declaration

procedure OnDesignerSave(Sender: TObject);

Category

Rave

Description

When this event is defined, a save button and save menu item will be displayed in the end user version of the Rave visual designer to allow the end user to perform intermediate saves. In this event, you will normally call RvProject.Save or whatever code you are using to save the project (i.e., RvProject1.SaveToStream(BlobStream)). The Sender parameter is the TRvProject component that generated the event.

NOTE:

This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also

TRvProject Class, *OnDesignerSaveAs*, *OnDesignerShow*, *SaveToStream*

4.10 OnDesignerSaveAs

Declaration

procedure OnDesignerSaveAs(Sender: TObject);

Category

Rave

Description

When this event is defined, a Save As menu item will be displayed in the end user version of the Rave visual designer to allow the end user to perform saves to alternate destinations. In this event, you will normally prompt the user for an alternate destination and then call RvProject.Save or whatever code you are using to save the project (i.e., RvProject1.SaveToStream(BlobStream)). The Sender parameter is the TRvProject component that generated the event.

NOTE:

This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also

TRvProject Class, *OnDesignerSave*, *OnDesignerShow*, *SaveToStream*

4.11 OnDesignerShow

Declaration

procedure OnDesignerShow(Sender: TObject);

Category

Rave

Description

This event will be called after the Rave visual designer is initialized but immediately before it is displayed. This will allow you to show a splash screen or change the mouse cursor while the designer is loading, then restore everything just before Rave is displayed. The Sender parameter is the TRvProject component that generated the event.

NOTE:

This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also

TRvProject Class, *OnDesignerSave*

4.12 OnDestroy

Declaration

procedure OnDestroy(MyPrinter: Trave);

Category

Rave

Description

This event is called when the TRvProject component is being destroyed. This is useful for freeing up resources that were allocated in the OnCreate event.

See also

TRvProject Class, *OnCreate*

4.13 OnEOF

Declaration

procedure OnEOF(Connection: TRvCustomConnection; var Eof: Boolean);

Category

Rave

Description

This event is called when the Rave data system wants the EOF status for the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnFirst*, *OnNext*

4.14 OnFirst

Declaration

procedure OnFirst(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants the data cursor to be positioned to the beginning of the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnEOF*, *OnNext*

4.15 OnGetCols

Declaration

procedure OnGetCols(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to retrieve the meta-data information (field names, types, sizes and descriptions) for the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnGetRow*

4.16 OnGetRow

Declaration

procedure OnGetRow(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to retrieve the data for the current row of the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnFirst*, *OnNext*

4.17 OnGetSorts

Declaration

procedure OnGetSorts(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants the available sorting methods available for the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnSetSort*

4.18 OnNewColumn

Declaration

```
procedure OnNewColumn(Sender: TObject);
```

Category

Control

Description

This event will be called whenever a new column has begun (after a call to *PrintLn, NewLine, SetColumns* or *SetColumnWidth*). This can be useful for printing column headers.

See also

TBaseReport Class, *NewLine*, *PrintLn*, *SetColumns*, *SetColumnWidth*

Example (Delphi)
```
procedure TReportForm.OnNewColumnReport10(Sender: TObject);
begin
  with Sender as TBaseReport do begin
    Underline := true;
    PrintLn('Column Titles');
    Underline := false;
  end; { with }
end;
```

Example (C++Builder)
```
void __fastcall TReportForm:: OnNewColumnReport10 (TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  rp1->Underline = true;
  rp1->PrintLn("Column Titles");
  rp1->Underline = false;
}
```

4.19 OnNewPage

Declaration
```
procedure OnNewPage(Sender: TObject);
```

Category
Control

Description
This event will be called whenever a new page is generated. This can be useful to initialize page related items.

See also
TBaseReport Class, *NewPage*, *SelectBin*

Example (Delphi)
```
procedure TRpForm.RvNDRWriter1NewPage(Sender: TObject);
begin
  with Sender as TBaseReport do begin
    PrintBitmapRect(0.5,0.5,1.20,1.20,Logo);
    MarginTop := 0.5;
    Home;
    SetFont('Arial',24);
    PrintHeader('Report Title', pjCenter);
    MarginTop := 1.0;
    Home;
    SetFont('Arial',10);
    PrintHeader(FormatDateTime(DateFormat, now), pjRight);
  end; { with }
end;
```

Example (C++Builder)

```
void __fastcall TRpForm:: RvNDRWriter1NewPage (TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  rp1->PrintBitmapRect(0.5,0.5,1.20,1.20,Logo);
  rp1->MarginTop = 0.5;
  rp1->Home();
  rp1->SetFont("Arial",24);
  rp1->PrintHeader("Report Title", pjCenter);
  rp1->MarginTop = 1.0;
  rp1->Home();
  rp1->SetFont("Arial",10);
  rp1->PrintHeader(FormatDateTime("ddd, dd mmm yyyy hh:mm:ss", Now()),
pjRight);
}
```

4.20 OnNext

Declaration

procedure OnNext(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants the data cursor to be moved to the next row of the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnEOF*, *OnFirst*

4.21 OnOpen

Declaration

procedure OnOpen(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to initialize the data session. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnRestore*

4.22 OnPageChange

Declaration

```
procedure OnPageChange(Sender: TObject);
```

Category

Preview

Description

This event will be called whenever the current page changes on the preview screen. This can be useful for updating the current page number on visual controls on the preview screen.

See also

TRvRenderPreview Class, *NextPage*, *PrevPage*, *PrintPage*

Example (Delphi)

```
procedure TPreForm.RvRenderPreview1PageChange(Sender: TObject);
```

```
begin
  with RvRenderPreview1 do begin
    PageEdit.Text := IntToStr(CurrentPage);
    PageLabel.Caption := 'Page ' + IntToStr(CurrentPage -
     FirstPage + 1) + ' of ' + IntToStr(Pages);
  end; { with }
end;
```

Example (C++Builder)

```
void __fastcall TPreForm::RvRenderPreview1PageChange(TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  PageEdit->Text = IntToStr(rp1->CurrentPage);
  PageLabel->Caption = "Page " + IntToStr(rp1->CurrentPage -
   rp1->FirstPage + 1) + " of " + IntToStr(RvRenderPreview1->Pages);
}
```

4.23 OnPreviewSetup

Declaration

```
procedure OnPreviewSetup( Sender: TObject );
```

Category

Preview

Description

This will allow you to modify the TRvRenderPreview component on a preview form as well as the preview form itself. Some functions, such as ZoomPageWidthFactor will need to be called in the *OnPreviewShow* event.

NOTE:

OnPreviewSetup is called before the form is shown and TRvRenderPreview is started.

See also

TRvSystem Class, *OnPreviewShow*

Example (Delphi)

```
Procedure TForm1.RvSystem1PreviewSetup( Sender: TObject);
begin
  with Sender as TRvRenderPreview do begin
    ZoomFactor := 50;
    with Owner as TForm do begin
      Position := poDesigned;
      Top  := 10;
      Left := 10;
    end; { with }
  end; { with }
end;
```

Example (C++Builder)

```
void __fastcall TForm1::RvSystem1PreviewSetup(TObject *Sender)
{
  TRvRenderPreview* fp = dynamic_cast<TRvRenderPreview*>(Sender);
  fp->ZoomFactor = 50;
  TForm* pf = dynamic_cast<TForm*>(fp->Owner);
  fp->Position = poDesigned;
  fp->Top = 10;
  fp->Left = 10;
}
```

4.24 OnPreviewShow

Declaration
```
procedure OnPreviewShow( Sender: TObject );
```

Category
Preview

Description
This will allow you to modify the TRvRenderPreview component on the preview form itself.

NOTE:
This event is called during the OnShow event of the preview form.

See also
TRvSystem Class, *OnPreviewSetup*

Example (Delphi)
```
Procedure TForm1.RvSystem1PreviewShow( Sender: TObject);
begin
  with Sender as TRvRenderPreview do begin
    ZoomFactor := ZoomPageWidthFactor;
  end; { with }
end;
```

Example (C++Builder)
```
void __fastcall TForm1::RvSystem1PreviewShow(TObject *Sender)
{
  TRvRenderPreview* fp = dynamic_cast<TRvRenderPreview*>(Sender);
  fp->ZoomFactor = fp->ZoomPageWidthFactor;
}
```

4.25 OnPrint

Declaration
procedure OnPrint(Sender: TObject);

Category
Control

Description
This event will be called when it is time to print the body of the report. To begin a new page call the *NewPage* method. To finish the report just exit this event. The event is useful for more complicated reports that are different from page to page.

See also
TBaseReport Class, *Execute*, *NewPage*, *OnPrintPage*

4.26 OnPrintFooter

Declaration
```
procedure OnPrintFooter(Sender: TObject);
```

Category
Control

Description
This event will be called after the body for each page that has been printed. This can be useful for printing similar footers for each page.

See also
TBaseReport Class, *GotoFooter*, *PrintFooter*, *OnPrintHeader*

Example (Delphi)
```
procedure TReportForm.PrintFooterReport5(Sender: TObject);
begin { PrintFooterReport5 }
  with Sender as TBaseReport do begin
    SetFont('Times New Roman',8);
    MarginBottom := 0.5;
    PrintFooter('Page ' + IntToStr(CurrentPage),pjLeft);
    PrintFooter('Date 01/20/95',pjRight);
    MarginBottom := 1.0;
  end; { with }
end;  { PrintFooterReport5 }
```

Example (C++Builder)
```
void __fastcall TReportForm:: PrintFooterReport5 (TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  rp1->SetFont("Times New Roman",8);
  rp1->MarginBottom = 0.5;
  rp1->PrintFooter("Page " + IntToStr(rp1->CurrentPage),pjLeft);
  rp1->PrintFooter("Date 01/20/95",pjRight);
  rp1->MarginBottom = 1.0;
}
```

4.27 OnPrintHeader

Declaration
```
procedure OnPrintHeader(Sender: TObject);
```

Category
Control

Description
This event will be called before the body for each page that has been printed. This can be useful for printing similar headers for each page.

See also
TBaseReport Class, *GotoHeader*, *OnPrintFooter*, *PrintHeader*

Example (Delphi)
```
procedure TReportForm.PrintHeaderReport5(Sender: TObject);
begin { PrintHeaderReport5 }
  with Sender as TBaseReport do begin
    MarginTop := 0.5;
    SetFont('Arial',24);
    Underline := true;
    Home;
    PrintCenter('Customer List', PageWidth / 2);
    MarginTop := 1.0;
  end; { with }
end;  { PrintHeaderReport5 }
```

Example (C++Builder)
```
void __fastcall TReportForm:: PrintHeaderReport5 (TObject *Sender)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
  rp1->MarginTop = 0.5;
  rp1->SetFont("Arial",24);
  rp1->Underline = true;
  rp1->Home();
  rp1->PrintCenter("Customer List", rp1->PageWidth / 2);
  rp1->MarginTop = 1.0;
}
```

4.28 OnPrintPage

Declaration

```
function OnPrintPage( Sender: TObject; var PageNum: Integer): Boolean;
```

Category

Control

Description

This event will be called when it is time to print the body of a page for the report. This event will only be called if an *OnPrint* event handler does not already exist for this report. To begin a new page, return a result of true; otherwise, to finish the report just exit this event with a result of false. This event is useful for reports that are the same from page to page.

See also

TBaseReport Class, *Execute*, *OnPrint*

Example (Delphi)

```
function TReportForm.PrintPageReport3(Sender: TObject;
                             var PageNum: integer): Boolean;
begin { PrintPageReport3 }
  with Sender as TBaseReport do begin
    SetFont('Times New Roman',10);
    Home;

  { Print memo buffer }
    SetColumns(3,0.25);
    MemoBuf.PrintStart := ColumnStart;
    MemoBuf.PrintEnd   := ColumnEnd;
    PrintMemo(MemoBuf, ColumnLinesLeft, false);
    ClearColumns;

    Result := not MemoBuf.Empty;
  end; { with }
end;  { PrintPageReport3 }
```

Example (C++Builder)

```
bool __fastcall TReportForm:: PrintPageReport3 (TObject *Sender,
      int &PageNum)
{
  TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);

  rp1->SetFont("Times New Roman",10);
  rp1->Home();

  // Print memo buffer
  rp1->SetColumns(3,0.25);
  MemoBuf->PrintStart = rp1->ColumnStart;
  MemoBuf->PrintEnd   = rp1->ColumnEnd;
  rp1->PrintMemo(MemoBuf, rp1->ColumnLinesLeft(), false);
  rp1->ClearColumns();

  return !MemoBuf->Empty();
}
```

4.29 OnRestore

Declaration

procedure OnRestore(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to restore the data session to its state before the OnOpen event was called. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnOpen*

4.30 OnSetFilter

Declaration

procedure OnSetFilter(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to filter the data based on field criteria. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnSetSort*

4.31 OnSetSort

Declaration

procedure OnSetSort(Connection: TRvCustomConnection);

Category

Rave

Description

This event is called when the Rave data system wants to sort the data. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnSetFilter*

4.32 OnValidateRow

Declaration

procedure OnValidateRow(Connection: TRvCustomConnection; var ValidRow: Boolean);

Category

Rave

Description

This event is called for each row in the data and allows the custom selection of which records will be included in the report by setting ValueRow to true or false. See the tutorial on customizing data connections for more information.

See also

TRvCustomConnection Class, *OnSetFilter*

4.33 OnZoomChange

Declaration

```
procedure OnZoomChange(Sender: TObject);
```

Category

Preview

Description

This event will be called whenever the current zoom factor changes for the preview screen. This can be useful for updating the current zoom factor on visual controls on the preview screen.

NOTE:

If an *OnZoomChange* event handler is created, it is responsible for redrawing the page by calling *RedrawPage*.

See also

TRvRenderPreview Class, *RedrawPage*, *ZoomIn*, *ZoomOut*

Example Delphi

```
procedure TRpPreviewForm.RvRenderPreview1ZoomChange(Sender: TObject);
var   S1: string[10];
begin
  Str(RvRenderPreview1.ZoomFactor:1:1,S1);
  ZoomEdit.Text := S1;
  RvRenderPreview1.RedrawPage;
end;
```

Example (C++Builder)

```
void __fastcall TForm1::RvRenderPreview1ZoomChange(TObject *Sender)
{
  AnsiString S1;
  S1 = FloatToStrF(RvRenderPreview1->ZoomFactor, ffGeneral,1,1);
  ZoomEdit->Text = S1;
  RvRenderPreview1->RedrawPage();
}
```

4.34 OverridePreview

Declaration

procedure OverridePreview(RvSystem: TRvSystem; OverrideMode: TOverrideMode; var OverrideForm: TForm);

Category

ReportSystem

Description

This event allows the programmer to replace the default preview screen with a custom preview screen. See RpSYSTEM.PAS for more information.

See also

TRvSystem Class, *OverridePreviewProc*

4.35 OverrideSetup

Declaration

procedure OverrideSetup(RvSystem: TRvSystem; OverrideMode: TOverrideMode; var OverrideForm: TForm);

Category

ReportSystem

Description

This event allows the programmer to replace the default preview screen with a custom preview screen. See RpSYSTEM.PAS for more information.

See also

TRvSystem Class, *OverrideSetupProc*

4.36 OverrideStatus

Declaration

procedure OverrideStatus(RvSystem: TRvSystem; OverrideMode: TOverrideMode; var OverrideForm: TForm);

Category

ReportSystem

Description

This event allows the programmer to replace the default preview screen with a custom preview screen. See RpSYSTEM.PAS for more information.

See also

TRvSystem Class, OverrideStatusProc

Methods

Chapter

V

5 Methods

A method is a procedure or function associated with a class. A call to a method specifies the object (or, if it is a class method, the class) that the method should operate on.

5.1 Abort

Declaration

```
procedure Abort;
```

Category

Control

Description

This method will abort the printing of the report and set the property *Aborted* to true.

NOTE:

Abort raises the silent exception Abort that will cease the current thread of execution. Make sure to use exception handling (try...finally) to restore any resources that you may allocate in your reporting code.

See Also

TBaseReport Class, *Aborted*, *Execute*

Example (Delphi)

```
procedure TRpStatusForm.CancelButtonClick(Sender:TObject);
begin
  RvNDRWriter1.Abort;
end;
```

Example (C++Builder)

```
void __fastcall
  TRpStatusForm::CancelButtonClick(TObject* Sender)
{
  RvNDRWriter1->Abort();
}
```

5.2 AbortPage

Declaration

procedure AbortPage;

Category

Control

Description

This method will abort the printing of the current page and start printing a new page.

See also

TBaseReport Class, *Abort*

Example (Delphi)

RvNDRWriter1.AbortPage;

Example (C++Builder)

rp1->AbortPage();

5.3 AdjustLine

Declaration

```
procedure AdjustLine;
```

Category

Position

Description

This method will adjust the current text cursor so that the current line is placed correctly below the previous line after a change in font size. Use *AdjustLine* when you want to reset the line height and line font *after* the cursor is already on the next line.

See also

TBaseReport Class, *ResetLineHeight*

Example (Delphi)
```
SetFont('Arial',14);
PrintLn('This is the first line of text');
SetFont('Arial',10);
AdjustLine;
PrintLn('This is the second line of text');
```

Example (C++Builder)
```
rp1->SetFont("Arial",14);
rp1->PrintLn("This is the first line of text");
rp1->SetFont("Arial",10);
rp1->AdjustLine();
rp1->PrintLn("This is the second line of text");
```

5.4 AllowAll

Declaration
```
procedure AllowAll;
```

Category

Control

Description

This method will reset the valid destinations to all after they have been modified by *AllowPreviewOnly* or *AllowPrinterOnly*.

See also

TBaseReport Class, *AllowPreviewOnly*, *AllowPrinterOnly*

Example (Delphi)
```
// Draw a line on the preview screen only
AllowPreviewOnly;
MoveTo(1.5,1.5);
LineTo(6.5,1.5);
AllowAll;
```

Example (C++Builder)
```
rp1->AllowPreviewOnly();
rp1->MoveTo(1.5,1.5);
rp1->LineTo(6.5,1.5);
rp1->AllowAll();
```

5.5 AllowPreviewOnly

Declaration
```
procedure AllowPreviewOnly;
```

Category

Control

Description

This method will set the valid destinations to preview only. Any printing commands that follow will only be sent to the preview screen. The method can be very useful to print items that you want to appear on the preview screen but not the printer **(Such as the label extents for the TLabelShell component)**.

See also

TBaseReport Class, *AllowAll*, *AllowPrinterOnly*

Example

See *AllowAll*

5.6 AllowPrinterOnly

Declaration

```
procedure AllowPrinterOnly;
```

Category

Control

Description

This method will set the valid destinations to printer only. Any printing commands that follow will only be sent to the printer. This method can be very useful to print items that you want to appear on the printer but not the preview screen.

See also

TBaseReport Class, *AllowAll*, *AllowPreviewOnly*

Example

See *AllowAll*

5.7 Append

Declaration

```
procedure Append(Text: string);
```

Category

Memo

Description

This method will append Text to the end of the memo buffer.

See also

TMemoBuf Class, *Insert*

Example (Delphi)

```
MemoBuf.Append(' This is a new sentence on the end.');
```

Example (C++Builder)

```
MemoBuf->Append(" This is a new sentence on the end.");
```

5.8 AppendMemoBuf

Declaration

```
procedure AppendMemoBuf(MemoBuf: TMemoBuf);
```

Category

Memo

Description

Will append MemoBuf to the current memo buffer.

See also
TMemoBuf Class, *InsertMemoBuf*

Example (Delphi)
```
MemoBuf1.AppendMemoBuf(MemoBuf2);
```

Example (C++Builder)
```
MemoBuf1->AppendMemoBuf(MemoBuf2);
```

5.9 Arc

Declaration
```
procedure Arc(X1,Y1,X2,Y2,X3,Y3,X4,Y4: double);
```

Category
Graphics

Description
This method draws an arc inside an ellipse bounded by the rectangle defined by (X1,Y1) and (X2,Y2). The arc starts at the intersection of the line drawn between the ellipse center ((X1+X2) / 2.0,(Y1+Y2) / 2.0) and the point (X3,Y3) and is drawn counterclockwise until it reaches the intersection of the line drawn between the ellipse center and the point (X4,Y4).

See also
TBaseReport Class, *Ellipse*, *Pie*

Example (Delphi)
```
RvNDRWriter1.Arc(1.0,1.0,3.0,3.0,3.0,2.0,0.0,0.0);
```

Example (C++Builder)
```
RvNDRWriter1->Arc(1.0,1.0,3.0,3.0,3.0,2.0,0.0,0.0);
```

5.10 AssignFont

Declaration
```
procedure AssignFont(Font: TFont);
```

Category
Font

Description
Selects current font to the TFont object from list.

See also
TBaseReport Class, *SetFont*

Example (Delphi)
```
RvNDRWriter1.AssignFont( FontDialog1.Font );
```

Example (C++Builder)
```
RvNDRWriter1->AssignFont( FontDialog1->Font );
```

5.11 BrushCopy

Declaration
```
procedure BrushCopy(const Dest: TRect; Bitmap: TBitmap; const Source: TRect;
Color: TColor);
```

Category
Graphics

Description

Copies a portion of Bitmap specified by the rectangle *Source* to the printer canvas. *Color of Bitmap* is replaced by the brush color of the destination canvas. The rectangle *Dest* defines the region to copy the bitmap to.

See also

TBaseReport Class, *CreateRect*, *TColor*, *TRect*

Example (Delphi)

```
RvNDRWriter1.BrushCopy(DestRect, UserBMP, SrcRect, clBlack);
```

Example (C++Builder)

```
RvNDRWriter1->BrushCopy(DestRect, UserBMP, SrcRect, clBlack);
```

5.12 CalcGraphicHeight

Declaration

```
function CalcGraphicHeight(Width: double; Graphic: TGraphic); double;
```

Category

Graphics

Description

This method will calculate and return the value for the new *Height* of the *Graphic* based on the *Width* value while maintaining the original ratio of the *Graphic*. This could be used to see if there is enough room left on the page before attempting to print the graphic. This can be used for both bitmaps and metafiles.

See also

TBaseReport Class, *CalcGraphicWidth*, *PrintBitmap*, *PrintBitmapRect*, *StretchDraw*

Example (Delphi)

```
Bitmap := TBitmap.Create;
Bitmap.LoadFromFile('RpDEMO.BMP');
PrintBitmapRect(X1, Y1, X1 + 3.0,
                Y1 + CalcGraphicHeight(3.0,Bitmap),Bitmap);
Bitmap.Free;
```

Example (C++Builder)

```
Graphics::TBitmap* Bitmap;
Bitmap = new Graphics::TBitmap();
Bitmap->LoadFromFile("RpDEMO.BMP");
rp1->PrintBitmapRect(X1, Y1, X1 + 3.0,
                     Y1 + rp1->CalcGraphicHeight(3.0,Bitmap),Bitmap);
delete Bitmap;
```

5.13 CalcGraphicWidth

Declaration

```
function CalcGraphicWidth(Height: double; Graphic: TGraphic): double;
```

Category

Graphics

Description

This method will calculate and return the value for the new *Width* of the *Graphic* based on the *Height* value while maintaining the original ratio of the *Graphic*. This can be used for both bitmaps and metafiles.

See also

TBaseReport Class, *CalcGraphicHeight*, *PrintBitmap*, *PrintBitmapRect*, *StretchDraw*

Example (Delphi)

```
Bitmap := TBitmap.Create;
```

```
Bitmap.LoadFromFile('RpDEMO.BMP');
PrintBitmapRect(X1, Y1,
               X1 + CalcGraphicWidth(3.0,Bitmap), Y1 + 3.0,Bitmap);
Bitmap.Free;
```

Example (C++Builder)

```
Graphics::TBitmap* Bitmap;
Bitmap = new Graphics::TBitmap();
Bitmap->LoadFromFile("RpDEMO.BMP");
rp1->PrintBitmapRect(X1, Y1,
               X1 + rp1->CalcGraphicHeight(3.0,Bitmap),3.0,Bitmap);
delete Bitmap;
```

5.14 Chord

Declaration

```
procedure Chord(X1,Y1,X2,Y2,X3,Y3,X4,Y4: double);
```

Category

Graphics

Description

This method draws a chord inside an ellipse bounded by the rectangle defined by (X1,Y1) and (X2,Y2). The chord starts at the intersection of the line drawn between the ellipse center ((X1+X2)/2.0,(Y1+Y2)/2.0) and the point (X3,Y3) and is drawn to the line drawn between the ellipse center and the point (X4,Y4).

See also

TBaseReport Class, *Ellipse*

Example (Delphi)

```
RvNDRWriter1.Chord(1.0,1.0,3.0,3.0,0.0,0.8,3.0,2.0);
```

Example (C++Builder)

```
RvNDRWriter1->Chord(1.0,1.0,3.0,3.0,0.0,0.8,3.0,2.0);
```

5.15 Clear

Declaration

```
procedure Clear;
```

Category

Preview

Description

This method will remove the *TImage* from the preview *TScrollBox* and refresh the display. This method can be useful for clearing the preview screen without having to destroy the preview form.

See also

TRvRenderPreview Class, *ScrollBox*

Example (Delphi)

// Clear the preview screen

```
RvRenderPreview1.Clear;
```

Example (C++Builder)

```
RvRenderPreview1->Clear();
```

5.16 ClearAllTabs

Declaration

```
procedure ClearAllTabs;
```

Category
Tabs

Description
This method will clear the current tab settings as well as all saved tab settings. This call is normally not needed since the tabs are cleared once the report is finished.

See also
TBaseReport Class, *ClearTabs*, *SaveTabs*

Example (Delphi)
```
// Clear all tabs, including saved tabs
ClearAllTabs;
```

Example (C++Builder)
```
rp1->ClearAllTabs();
```

5.17 ClearColumns

Declaration
```
procedure ClearColumns;
```

Category
Column

Description
This method removes all current column settings.

See also
TBaseReport Class, *SetColumns*, *SetColumnWidth*

Example (Delphi)
```
RvNDRWriter1.ClearColumns;
```

Example (C++Builder)
```
RvNDRWriter1->ClearColumns();
```

5.18 ClearRaveBlob

Declaration
```
procedure ClearRaveBlob;
```

Category
Rave

Description
This method will clear the currently loaded report project from the application form. You should not need to call this function since the normal method of clearing the loaded report project is through the TRvProject.StoreRAV property editor.

See also
TRvProject Class, *LoadRaveBlob*, *RaveBlobDateTime*, *SaveRaveBlob*, *StoreRAV*

Example (Delphi)
```
RvProject1.ClearRaveBlob;
```

Example (C++Builder)
```
RvProject1->ClearRaveBlob();
```

5.19 ClearTabs

Declaration

```
procedure ClearTabs;
```

Category

Tabs

Description

This method removes all current tab settings but will leave saved tab settings as they were.

See also

TBaseReport Class, *ResetTabs*, *SetTab*

Example (Delphi)

```
RvNDRWriter1.ClearTabs;
```

Example (C++Builder)

```
RvNDRWriter1->ClearTabs();
```

5.20 Close

Declaration

```
procedure Close;
```

Category

Rave

Description

This method will close the report project and unload it from memory. If you call the Open method of TRvProject, you should insure that this method is called before the application terminates.

See also

TRvProject Class, *Active*, *OnAfterClose*, *OnAfterOpen*, *OnBeforeClose*, *OnBeforeOpen*, *Open*

Example (Delphi)

```
RvProject1.Close;
```

Example (C++Builder)

```
RvProject1->Close();
```

5.21 ConstraintHeightLeft

Declaration

```
function ConstraintHeightLeft(Constraint: double): double;
```

Category

Memo

Description

This method will return the height necessary to print the memo buffer for the current font between *PrintStart* and *PrintEnd*. However, for speed purposes, this method will stop processing when the height exceeds the Constraint parameter.

NOTE:

You must initialize the TMemoBuf.BaseReport before calling this method.

See also

TMemoBuf Class, *MemoHeightLeft*, *PrintEnd*, *PrintMemo*, *PrintStart*, *TMemoBuf*

Example (Delphi)
```
MemoBuf.BaseReport := Sender as TBaseReport;
HeightLeft := MemoBuf.ConstraintHeightLeft(5.0);
```

Example (C++Builder)
```
MemoBuf->BaseReport = rp;
HeightLeft = MemoBuf->ConstraintHeightLeft(5.0);
```

5.22 CopyRect

Declaration
```
procedure CopyRect(const Dest: TRect; Canvas: TCanvas; const Source: TRect);
```

Category

Graphics

Description

This method copies part of an image defined by the rectangle *Source* from another canvas to the area on the printer canvas defined by the rectangle *Dest*.

See also

TBaseReport Class, *CreateRect*, *TCanvas*, *TRect*

Example (Delphi)
```
RvNDRWriter1.CopyRect( DestRect, DestCanvas, SrcRect);
```

Example (C++Builder)
```
RvNDRWriter1->CopyRect( DestRect, DestCanvas, SrcRect);
```

5.23 CR

Declaration
```
procedure CR;
```

Category

Position

Description

This method performs a carriage return which moves the horizontal text cursor position to the beginning of the current line. The beginning of the current line is defined by either the current *SectionLeft* setting or the setting of *ColumnStart* if columns are in use.

See also

TBaseReport Class, *ColumnStart*, *LF*, *NewLine*, *SectionLeft*

Example (Delphi)
```
with RvNDRWriter1 do begin
  SectionLeft := 3.0;
  PrintLn('This text is 3 inches from left');
  SectionLeft := 1.0;
  CR;
end; { with }
```

Example (C++Builder)
```
rp1->SectionLeft = 3.0;
rp1->PrintLn("This text is 3 inches from left");
rp1->SectionLeft = 1.0;
rp1->CR();
```

5.24 Create (TBaseReport)

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

Category

Misc

Description

This constructor should be called to create an instance of a component. This constructor should not normally be called if the component is placed visually on a form.

See also

TBaseReport Class, *Destroy*

Example (Delphi)

```
// Dynamically create a Rave component
var   MyReportPrinter: TRvNDRWriter;
begin
  MyReportPrinter := TRvNDRWriter.Create(self);
  with MyReportPrinter do try
    MarginTop    := 1.0;
    MarginBottom := 1.5;
    MarginRight  := 1.0;
    MarginLeft   := 1.0;
    OnPrint      := MyOnPrintMethod;
    Execute;
  finally
    Free;        { This will call the Destroy method }
  end; { with }
end;
```

Example (C++Builder)

```
TRvNDRWriter* rp1;
rp1 = new TRvNDRWriter(this);
try {
  rp1->MarginTop    = 1.0;
  rp1->MarginBottom = 1.5;
  rp1->MarginRight  = 1.0;
  rp1->MarginLeft   = 1.0;
  rp1->OnPrint      = MyOnPrintMethod;
  rp1->Execute();
}
__finally {
  delete rp1;
}/ tryf
```

5.25 Create (TRpBarsBase)

Declaration

```
constructor Create( BaseRpt: TBaseReport );
```

Category

BarCode

Description

This constructor is called to create an instance of the Bar Code Class. The current reporting object should be passed into the BaseRpt parameter.

See also

TRpBarsBase Class, *BaseReport* *(bar code)*

Example (Delphi)

```
BarCode1 := TRpBarsPostNet.Create(Sender as TBaseReport);
with BarCode1 do begin
  BarHeight := 0.125;
```

```
    BarWidth := 0.020;
    UseCheckSum := True;
    Text := '85283-3558'; {'-' will be stripped}
    Left := MarginLeft + 1.0;
    Print;
  end; {if}
  BarCode1.Free;
```

Example (C++Builder)

```
TBaseReport* rp = dynamic_cast<TBaseReport*>(Sender);
TRpBarsPostNet* bc1 = new TRpBarsPostNet(rp);
bc1->BarHeight = 0.125;
bc1->BarWidth = 0.020;
bc1->UseCheckSum = true;
bc1->Text = "85283-3558"; / "-" will be stripped
bc1->Left = rp1->MarginLeft + 1.0;
bc1->Print();
delete bc1;
```

5.26 CreateBrush

Declaration

```
function CreateBrush(NewColor: TColor; NewStyle: TBrushStyle; NewBitmap:
TBitmap): TBrush;
```

Category

Graphics

Description

This method will create a *TBrush* object for the given parameters. If a bitmap is not desired, pass in the value of nil. You can assign this brush to the canvas to change the current brush.

NOTE:

The brush object returned must be released by calling the free method of *TBrush*.

See also

TBaseReport Class, *SetBrush*, *TBrush*, *TBrushStyle*, *TColor*

Example (Delphi)

```
var MyBrush: TBrush;
begin
  MyBrush := CreateBrush(clRed, bsSolid, nil);
end;
```

Example (C++Builder)

```
TBrush* MyBrush;
MyBrush = rp1->CreateBrush(clRed, bsSolid, NULL);
MyBrush->Free();
```

5.27 CreateFont

Declaration

```
function CreateFont(NewName: string; NewSize: integer): TFont;
```

Category

Font

Description

This method will create a *TFont* object for the given parameters. *NewSize* is the point size of the font (1/72nds of an inch). You can assign this font to the canvas to change the current font.

NOTE:

The font object returned must be released by calling the free method of *TFont*. Also, it is preferable to use

SaveFont and *RestoreFont*.

See also

TBaseReport Class, *RestoreFont*, *SaveFont*, *SetFont*, *TFont*

Example (Delphi)

```
var MyFont: TFont;
begin
  MyFont := CreateFont('Times New Roman',8.00);
end;
```

Example (C++Builder)

```
TFont* MyFont;
MyFont = rp1->CreateFont("Times New Roman",8.00);
```

5.28 CreatePen

Declaration

```
function CreatePen(NewColor: TColor; NewStyle: TPenStyle; NewWidth: integer;
NewMode: TPenMode): TPen;
```

Category

Graphics

Description

This method will create a *TPen* object for the given parameters. The *NewWidth* parameter, if positive, is the width of the pen in printer units (dots) and if negative, is the width of the pen in 1/100ths of an inch. You can assign this pen to the canvas to change the current pen.

NOTE:

The pen object returned must be released by calling the free method of *TPen*.

See also

TBaseReport Class, *SetPen*, *TColor*, *TPen*, *TPenMode*, *TPenStyle*

Example (Delphi)

```
MyPen := CreatePen(clBlack,psSolid,1,pmBlack);
```

Example (C++Builder)

```
MyPen = rp1->CreatePen(clBlack,psSolid,1,pmBlack);
```

5.29 CreatePoint

Declaration

```
function CreatePoint(X,Y: double): TPoint;
```

Category

Graphics

Description

This method will return a TPoint record initialized to the point (X,Y).

See also

TBaseReport Class, *TPoint*

Example (Delphi)

```
MyPoint := CreatePoint(1.00,6.00);
```

Example (C++Builder)

```
MyPoint = rp1->CreatePoint(1.00,6.00);
```

5.30 CreateRect

Declaration

```
function CreateRect(X1,Y1,X2,Y2: double): TRect;
```

Category

Graphics

Description

This method will return a *TRect* record initialized to the rectangle defined by the points (X1,Y1) and (X2,Y2).

See also

TBaseReport Class, *CopyRect*, *TextRect*, *TRect*

Example (Delphi)

```
MyRect := CreateRect(1.00,6.00,3.00,8.00);
```

Example (C++Builder)

```
MyRect = rp1->CreateRect(1.00,6.00,3.00,8.00);
```

5.31 Delete

Declaration

```
procedure Delete(BufPos: longint; DelLen: longint);
```

Category

Memo

Description

This method will delete DelLen characters starting at BufPos in the memo buffer.

See also

TMemoBuf Class, *Insert*

Example (Delphi)

```
// Delete 5 characters at current position
MemoBuf.Delete(MemoBuf.Pos,5);
```

Example (C++Builder)

```
MemoBuf->Delete(MemoBuf->Pos,5);
```

5.32 Design

Declaration

```
procedure Design;
```

Category

Rave

Description

This method will start the execution of the Rave visual designer for the currently selected report.

NOTE:

This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also

TRvProject Class, *DesignReport*, *Execute*, *ExecuteReport*, *SelectReport*

Example (Delphi)
```
RvProject1.Design;
```

Example (C++Builder)
```
RvProject1->Design();
```

5.33 DesignReport

Declaration
```
procedure DesignReport(ReportName: string);
```

Category
Rave

Description
This method will start the execution of the Rave visual designer for the specified report. ReportName is the short name of the report as defined in the report project. If you want to design the report by it's full name you will need to call the SelectReport and Design methods.

NOTE:
This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also
TRvProject Class, *Design*, *Execute*, *ExecuteReport*

Example (Delphi)
```
RvProject1.DesignReport('CustomerListing');
```

Example (C++Builder)
```
RvProject1->DesignReport("Customer Listing");
```

5.34 Destroy

Declaration
```
Destructor Destroy;
```

Category
Misc

Description
The *Destroy* destructor should never be called directly. To destroy a component created with *Create*, call the *Free* method.

See also
TBaseReport Class, *Create*

Example
see *Create*

5.35 Draw

Declaration
```
procedure Draw(X,Y: double; Graphic: TGraphic);
```

Category
Graphics

Description
This method draws *Graphic* to the printer canvas at the location (X,Y).

NOTE:
Do not use *Draw* for bitmaps. Use *PrintBitmap* or *PrintBitmapRect* instead.

See also
TBaseReport Class, *PrintBitmap*, *PrintBitmapRect*, *StretchDraw*, *TGraphic*

Example (Delphi)
```
var   MyLogo: TGraphic;
begin
  MyLogo := TMetafile.Create;
  try
    MyLogo.LoadFromFile('MYLOGO.WMF');
    RvNDRWriter1.Draw(1.0,2.0,MyLogo);
  finally
    MyLogo.Free;
  end; { tryf }
end;
```

Example (C++Builder)
```
TGraphic* MyLogo;
MyLogo = new TMetafile();
try {
    MyLogo->LoadFromFile("MYLOGO.WMF");
    RvNDRWriter1->Draw(1.0,2.0,MyLogo);
  }
  __finally {
    delete MyLogo;
  }/ tryf
```

5.36 DrawFocusRect

Declaration
```
procedure DrawFocusRect(const Rect: TRect);
```

Category
Graphics

Description
This method will draw a rectangle, defined by *Rect*, in the style used to indicate that the rectangle has focus.

See also
TBaseReport Class, *CreateRect*, *TRect*

Example (Delphi)
```
RvNDRWriter1.DrawFocusRect(CreateRect(1.0,1.0,2.0,3.0));
```

Example (C++Builder)
```
RvNDRWriter1->DrawFocusRect(rp1->CreateRect(1.0,1.0,2.0,3.0));
```

5.37 Ellipse

Declaration
```
procedure Ellipse(X1,Y1,X2,Y2: double);
```

Category
Graphics

Description
This method draws an ellipse bounded by the rectangle defined by (X1,Y1) and (X2,Y2).

See also

TBaseReport Class, *Arc*, *Pie*

Example (Delphi)
```
Ellipse(5.375,1.25,7.375,2.75);
```

Example (C++Builder)
```
rp1->Ellipse(5.375,1.25,7.375,2.75);
```

5.38 Empty

Declaration
```
function Empty: Boolean;
```

Category

Memo

Description

This method will return true if the memo buffer does not have anything in it or if the current position, *Pos*, is beyond the end of the buffer.

See also

TMemoBuf Class, *Pos*, *Size*

Example (Delphi)
```
if not MemoBuf1.Empty then begin
  PrintMemo(MemoBuf1,0,false);
end; { if }
```

Example (C++Builder)
```
if (!MemoBuf1->Empty()) {
    rp1->PrintMemo(MemoBuf1,0,false);
  }/ if
```

5.39 Execute (TBaseReport)

Declaration
```
procedure Execute;
```

Category

Control

Description

This method will begin the printing task assigned to the component. For report generation components (*TRvSystem*, *TRvNDRWriter*) the event handlers *OnBeforePrint, OnPrint, OnPrintPage, OnNewPage, OnNewColumn, OnPrintHeader, OnPrintFooter* and *OnAfterPrint* will be called at their appropriate times. For *TRvRenderPrinter* or *TRvRenderPreview* the contents of the report stream from a *TRvNDRWriter* will be sent to either the printer or the preview screen. See *Start* for printing the report for a *TRvRenderPreview* component.

See also

TBaseReport Class, *Abort*, *Printing*, *All printing event handlers*

Example (Delphi)
```
RvNDRWriter1.Execute;
```

Example (C++Builder)
```
RvNDRWriter1->Execute();
```

5.40 Execute (TRvProject)

Declaration

```
procedure Execute;
```

Category

Rave

Description

This method will start the printing of the currently selected Rave report. This method can be called while a printing job is in progress from a TRvNDRWriter component (typically inside of the OnPrint event) to add in the Rave report to the current code generated report.

See also

TRvProject Class, *ExecuteReport*, *SelectReport*

Example (Delphi)

```
RvProject1.Execute;
```

Example (C++Builder)

```
RvProject1->Execute();
```

5.41 ExecuteCustom

Declaration

```
procedure ExecuteCustom(NewFirstPage: integer; NewLastPage: integer;
NewCopies: integer);
```

Category

Control

Description

This method will print the report but only for the specified parameters. *NewCopies*, if non-zero, will override the copies setting in the report file. *NewFirstPage* and *NewLastPage*, if non-zero, will only print the report file for that page range.

See also

TRvRenderPreview Class, *Copies*, *Execute*

Example (Delphi)

```
// Print 2 copies of only the first four pages
RvRenderPrinter1.ExecuteCustom( 1, 4, 2);
```

Example (C++Builder)

```
RvRenderPrinter1->ExecuteCustom( 1, 4, 2);
```

5.42 ExecuteReport

Declaration

```
procedure ExecuteReport(ReportName: string);
```

Category

Rave

Description

This method will start the execution of the named Rave report. This method can be called while a printing job is in progress from a *TRvNDRWriter* component (typically inside of the *OnPrint* event) to add in the Rave report to the current code generated report.

See also

TRvProject Class, *Execute*

Example (Delphi)
```
RvProject1.ExecuteReport('CustomerListing');
```

Example (C++Builder)
```
RvProject1->ExecuteReport("CustomerListing");
```

5.43 FillRect

Declaration
```
procedure FillRect(const Rect: TRect);
```

Category

Graphics

Description

This method fills the rectangle defined by *Rect* with the current brush.

See also

TBaseReport Class, *CreateRect*, *TRect*

Example (Delphi)
```
FillRect( CreateRect( 1.0, 1.0, 2.0, 3.0 ) );
```

Example (C++Builder)
```
rp1->FillRect(rp1->CreateRect(1.0, 1.0, 2.0, 3.0));
```

5.44 Finish

Declaration
```
procedure Finish;
```

Category

Control

Description

This method finishes a preview session for the TRvRenderPreview component or finishes a print job for TRvNDRWriter. *Start* must have been called first before *Finish* will be a valid call.

See also

TBaseReport Class, *Start*

Example (Delphi)
```
RvRenderPreview1.Finish;
```

Example (C++Builder)
```
RvRenderPreview1->Finish();
```

5.45 FinishTabBox

Declaration
```
procedure FinishTabBox(Width: integer);
```

Category

Tabs

Description

Draws the top line for the current set of tabs using a line width of Width. Useful when printing a table drawn with the setting of BOXLINELEFTRIGHT to finish the bottom of each tab box. This function can also be called at the beginning to draw the top line of the table.

See also

TBaseReport Class, *SetTab*

Example (Delphi)

```
ClearTabs;
SetTab(0.5,pjLeft,1.5,5,BOXLINELEFTRIGHT,0);
SetTab(NA, pjLeft,1.5,5,BOXLINELEFTRIGHT,0);
SetTab(NA, pjLeft,4.5,5,BOXLINELEFTRIGHT,0);
FinishTabBox(1);
PrintTab('Name');
PrintTab('Picture');
PrintTab('Description');
NewLine;
FinishTabBox(1);
```

Example (C++Builder)

```
rp1->ClearTabs();
  rp1->SetTab(0.5,pjLeft,1.5,5,BOXLINELEFTRIGHT,0);
  rp1->SetTab(NA, pjLeft,1.5,5,BOXLINELEFTRIGHT,0);
  rp1->SetTab(NA, pjLeft,4.5,5,BOXLINELEFTRIGHT,0);
  rp1->FinishTabBox(1);
  rp1->PrintTab("Name");
  rp1->PrintTab("Picture");
  rp1->PrintTab("Description");
  rp1->NewLine();
  rp1->FinishTabBox(1);
```

5.46 FloodFill

Declaration

```
procedure FloodFill(X,Y: double; Color: TColor; FillStyle: TFillStyle);
```

Category

Graphics

Description

This method fills an area of the printer canvas using the current brush. *FloodFill* begins at the point (X,Y) and fills until the boundary specified by the color, Color, is encountered. *FillStyle* defines the method of fill used. (*fsBorder* will fill until the color, *Color*, is encountered and *fsSurface* will fill while the color, *Color*, is still encountered.)

See also

TBaseReport Class, *PageInvalid*, *TColor*

Example (Delphi)

```
FloodFill(2.0,3.0,clRed,fsBorder);
```

Example (C++Builder)

```
FloodFill(2.0,3.0,clRed,fsBorder);
```

5.47 FrameRect

Declaration

```
procedure FrameRect(const Rect: TRect);
```

Category

Graphics

Description

This method draws the rectangle *Rect* using the current brush to draw the border of the rectangle. *FrameRect* does not fill the rectangle with the current brush.

See also
TBaseReport Class, *CreateRect*, *TRect*

Example (Delphi)
```
RvNDRWriter1.FrameRect( CreateRect( 1.0,1.0, 2.0,3.0 ) );
```

Example (C++Builder)
```
RvNDRWriter1->FrameRect( rp1->CreateRect(1.0,1.0,2.0,3.0) );
```

5.48 FreeSaved

Declaration
```
procedure FreeSaved;
```

Category
Memo

Description
This method will free the memory allocated by a previous call to *SaveBuffer*. This method is normally not needed as the saved buffer is freed when the memo buffer is freed.

See also
TMemoBuf Class, *RestoreBuffer*, *SaveBuffer*

Example (Delphi)
```
MemoBuf1.FreeSaved;
```

Example (C++Builder)
```
MemoBuf1->FreeSaved();
```

5.49 GetMemoLine

Declaration
```
function GetMemoLine( MemoBuf: TMemoBuf; var EOL: Boolean): string;
```

Category
Memo

Description
This method will return a single line from the memo buffer each time it is called. You can print the memo buffer line by line by placing this function inside a *PrintLn* statement. *EOL* returns true when it encounters a carriage return or the end of the memo buffer.

See also
TBaseReport Class, *MemoLines*, *PrintMemo*, *TMemoBuf*

Example (Delphi)
```
PrintLn(GetMemoLine(MemoBuf, EOL));
```

Example (C++Builder)
```
rp1->PrintLn(rp1->GetMemoLine(MemoBuf, EOL));
```

5.50 GetNextLine

Declaration
```
function GetNextLine(var EOL: Boolean): string;
```

Category
Memo

Description
This method will return a single line from the memo buffer each time it is called. You can print the memo

buffer line by line by placing this function inside a *PrintLn* statement. *EOL* returns true when it encounters a carriage return or the end of the memo buffer.

NOTE:
You must initialize the TMemoBuf.BaseReport before calling this method.

See also
TBaseReport Class, *MemoLines*, *PrintMemo*, *TMemoBuf*

Example (Delphi)
```
PrintLn(GetNextLine(EOL));
```

Example (C++Builder)
```
rp1->PrintLn(rp1->GetNextLine(EOL));
```

5.51 GetParam

Declaration
```
procedure GetParam(ParamName: string);
```

Category
Rave

Description
GetParam allows an event in the Visual Designer to get a parameter that was passed from the application to the currently loaded Rave project. These parameters can be used to control dynamic layouts, SQL parameters or other items to print in a visually designed report.

See also
TRvProject Class, *SetParam*

Example (in Visual Designer Event)
```
RaveProject.GetParam('UserName',UserName);
```

5.52 GetReportCategoryList

Declaration
```
procedure GetReportCategoryList(ReportList: TStrings; Categories: string);
FullName: Boolean);
```

Category
Rave

Description
This method will allow you to get all of the reports matching specific categories. If you had categories called Accounting, General, Status and System. Now if you want to get a list of all reports except System, then you would call RvProject1.GetReportCategoryList(ReportList, 'Accounting; Status; General; ;'). If FullName is true, this will return the full names of all reports in the current report project and if it is false, it will return the short names of the reports.

NOTE:
The double "; ;" at the end of the category list is to include all reports where the category is not defined (the default value).

See also
TRvProject Class, *SelectReport*

5.53 GetReportList

Declaration

```
procedure GetReportList(ReportList: TStrings;FullName: Boolean);
```

Category

Rave

Description

This method will fill *ReportList* with a list of Rave defined reports that could then be used in a list box or other TStrings compatible object. ReportList must be an already created TStrings object. If *FullName* is true, this will return the full names of all reports in the current report project and if it is false it will return the short names of the reports.

See also

TRvProject Class, *SelectReport*

5.54 GetTab

Declaration

```
function GetTab(Index: integer): PTab;
```

Category

Tabs

Description

This method will return the tab setting specified by *Index*. If *Index* is 0 then *GetTab* will return the current tab setting and if *Index* is greater than the number of defined tabs then a value of nil will be returned. See RpDEFINE.PAS for information on the PTab structure.

See also

TBaseReport Class, *TabIndex*

5.55 GotoFooter

Declaration

```
procedure GotoFooter;
```

Category

Position

Description

This method will position the text cursor just above the current *SectionBottom*.

See also

TBaseReport Class, *MarginBottom*, *PrintFooter*, *SectionBottom*

Example (Delphi)

```
GotoFooter;
Print('Line just above SectionBottom');
```

Example (C++Builder)

```
rp1->GotoFooter();
rp1->Print("Line just above SectionBottom");
```

5.56 GotoHeader

Declaration

```
procedure GotoHeader;
```

Category

Position

Description

This method will position the text cursor just below the current *SectionTop*.

See also

TBaseReport Class, *MarginTop*, *PrintHeader*, *SectionTop*

Example (Delphi)
```
RvNDRWriter1.GotoHeader;
RvNDRWriter1.Print('Line just below SectionTop');
```

Example (C++Builder)
```
RvNDRWriter1->GotoHeader();
RvNDRWriter1->Print("Line just below SectionTop");
```

5.57 GotoXY

Declaration
```
procedure GotoXY(NewXPos: double; NewYPos: double);
```

Category

Position

Description

This method will move the text cursor to the position *NewXPos, NewYPos*.

See also

TBaseReport Class, *XPos*, *YPos*

Example (Delphi)

// This code shows how to position the output at specific coordinates.
```
GotoXY(1.0,8.5);
Print('Text at 1.0,8.5');
```

Example (C++Builder)
```
rp1->GotoXY(1.0,8.5);
rp1->Print("Text at 1.0,8.5");
```

5.58 GraphicFieldToBitmap

Declaration
```
procedure GraphicFieldToBitmap(GraphicField: TGraphicField; Bitmap: TBitmap);
```

Category

Graphics

Description

This method will convert a TGraphicField (graphical data from a database) to a bitmap.

NOTE:

You must include RpDBUTIL in your Uses statement to access this procedure.

See also

TBaseReport Class, *PrintBitmap*, *PrintBitmapRect*, *TGraphicField*

Example (Delphi)

// Convert and print a TGraphicField
```
Bitmap := TBitmap.Create;
GraphicFieldToBitmap(Table1Graphic,Bitmap);
PrintBitmapRect(5.375,3.5,7.375,5.5,Bitmap);
Bitmap.Free;
```

Example (C++Builder)
```
Bitmap := new Graphic::TBitmap();
rp1->GraphicFieldToBitmap(Table1Graphic,Bitmap);
rp1->PrintBitmapRect(5.375,3.5,7.375,5.5,Bitmap);
delete Bitmap;
```

5.59 Home

Declaration
```
procedure Home;
```

Category
Position

Description
This method will move the text cursor to the beginning of line 1.

See also
TBaseReport Class

Example (Delphi)
```
SetFont('Arial',10);
Home;
Print('Text in the Home position');
```

Example (C++Builder)
```
rp1->SetFont("Arial",10);
rp1->Home();
Print("Text in the Home position");
```

5.60 Insert

Declaration
```
procedure Insert(BufPos: longint; Text: string);
```

Category
Memo

Description
This method will insert Text into the memo buffer at BufPos. BufPos should be 0 to insert before the entire buffer.

See also
TMemoBuf Class, *Append*

Example (Delphi)
```
MemoBuf.Insert(0,'This text will now be first');
```

Example (C++Builder)
```
MemoBuf->Insert(0,"This text will now be first");
```

5.61 InsertMemoBuf

Declaration
```
procedure InsertMemoBuf(BufPos: longint; MemoBuf: TMemoBuf);
```

Category
Memo

Description
Will insert a MemoBuf at BufPos into the current memo buffer.

See also
TMemoBuf Class, *AppendMemoBuf*

Example (Delphi)
```
MemoBuf1.InsertMemoBuf(10,MemoBuf2);
```

Example (C++Builder)
```
MemoBuf1->InsertMemoBuf(10,MemoBuf2);
```

5.62 IsValidChar

Declaration
```
function IsValidChar( Ch: char ): Boolean;
```

Category
BarCode

Description
Is used to determine whether a character is a valid character for the particular bar code being printed.

See also
TRpBarsBase Class

Example (Delphi)
// following will return false because 2of5 only support numbers
```
Code2of5.IsValidCar('A')
```

Example (C++Builder)
```
Code2of5->IsValidChar('A')
```

5.63 LF

Declaration
```
procedure LF;
```

Category
Position

Description
This method performs a line feed which moves the vertical text cursor position down by the distance specified by the property *LineHeight*. It also increments the property *LineNum*. If Columns are in use, and the text cursor is moved below the current *SectionBottom*, the text cursor is placed at the top of the next column. The top of the next column is defined by the setting of *SectionTop*.

See also
TBaseReport Class, *CR*, *LineHeight*, *LineNum*, *NewLine*, *SectionBottom*, *SectionTop*

Example (Delphi)
```
RvNDRWriter1.LF;
```

Example (C++Builder)
```
RvNDRWriter1->LF();
```

5.64 LinesLeft

Declaration
```
function LinesLeft: integer;
```

Category
Position

Description

This method will return the number of lines that can be printed above the current SectionBottom including the current line.

See also

TBaseReport Class, *ColumnLinesLeft*, *SectionBottom*

Example (Delphi)

```
if RvNDRWriter1.LinesLeft < 3 then begin
  RvNDRWriter1.NewPage;
end; { if }
```

Example (C++Builder)

```
if (RvNDRWriter1->LinesLeft() < 3) {
  RvNDRWriter1->NewPage();
  }/ if
```

5.65 LineTo

Declaration

```
procedure LineTo(X,Y: double);
```

Category

Graphics

Description

This method will draw a line using the current pen from the previous graphic cursor position to the point specified by (X,Y).

See also

TBaseReport Class, *MoveTo*

Example (Delphi)

```
with RvNDRWriter1 do begin
  MoveTo( 1.0, 1.0 );
  LineTo( 3.0, 3.0 );
  MoveTo( 1.0, 3.0 );
  LineTo( 3.0, 1.0 );
end; { with}
```

Example (C++Builder)

```
rp1->MoveTo( 1.0, 1.0 );
rp1->LineTo( 3.0, 3.0 );
rp1->MoveTo( 1.0, 3.0 );
rp1->LineTo( 3.0, 1.0 );
```

5.66 LoadFromFile (TMemoBuf)

Declaration

```
function LoadFromFile( FileName: String);
```

Category

Memo

Description

This method will load a memo buffer with the contents of a text file. To load RTF text, use RTFLoadFile.

See also

TMemoBuf Class, *LoadFromStream*, *RTFLoadFromFile*, *SaveToStream*

Example (Delphi)

```
MemoBuf1.LoadFromFile('Letter.Txt');
```

Example (C++Builder)
```
MemoBuf1->LoadFromFile("Letter.Txt");
```

5.67 LoadFromFile (TRvProject)

Declaration
```
procedure LoadFromFile(FileName: string);
```

Category
Rave

Description
This method will load the report project file specified by the FileName parameter as the current Rave project.

See also
TRvProject Class, *LoadFromStream*, *SaveToFile*, *SaveToStream*

Example (Delphi)
```
RvProject1.LoadFromFile('Project1.Rav');
```

Example (C++Builder)
```
RvProject1->LoadFromFile("Project1.Rav");
```

5.68 LoadFromStream (TMemoBuf)

Declaration
```
procedure LoadFromStream(Stream: TStream; BufSize: longint);
```

Category
Memo

Description
This method will load the memo buffer from the stream for *BufSize* number of bytes.

See also
TMemoBuf Class, *SaveToStream*

Example (Delphi)
```
MemoBuf1.LoadFromStream( MyStream, StreamSize );
```

Example (C++Builder)
```
MemoBuf1->LoadFromStream( MyStream, StreamSize );
```

5.69 LoadFromStream (TRvProject)

Declaration
```
procedure LoadFromStream(Stream: TStream);
```

Category
Rave

Description
This method will load the report project store in Stream as the current report project.

See also
TRvProject Class, *LoadFromFile*, *SaveToFile*, *SaveToStream*

Example (Delphi)
```
RvProject1.LoadFromStream(BlobStream);
```

Example (C++Builder)
```
RvProject1->LoadFromStream(BlobStream);
```

5.70 LoadRaveBlob

Declaration
```
procedure LoadRaveBlob(Stream: TStream);
```

Category
Rave

Description
This method will load the report project stored in *Stream* into the application form. You should not need to call this function since the normal method of loading a report project is through the TRvProject. StoreRAV property editor.

See also
TRvProject Class, *ClearRaveBlob*, *RaveBlobDateTime*, *SaveRaveBlob*, *StoreRAV*

Example (Delphi)
```
RvProject1.LoadRaveBlob( MyStream );
```

Example (C++Builder)
```
RvProject1->LoadRaveBlob( MyStream );
```

5.71 Macro

Declaration
```
function Macro(MacroID: TMacroID): string;
```

Default
6

Category
Misc , Printing

Description
This function inserts a macro into your report. The macro will be inserted at the time of report output (to preview or printer) and not at report generation time. Use this method with all printing methods. For a list of MacroID see the type definition of TMacroID.

See also
TBaseReport Class, *MacroData*, *TMacroID*

Example (Delphi)
```
// Print the current page and total pages
PrintRight(Macro(midCurrentPage) + ' of ' +
  Macro(midTotalPages), 8.0);
```

Example (C++Builder)
```
rp1->PrintRight(rp1->Macro(midCurrentPage) + " of " +
  rp1->Macro(midTotalPages), 8.0);
```

5.72 MakeLink

Declaration
```
function MakeLink(aDisplayText:String ; aHyperlink: String): string;

function StartLink(aHyperlink: String);

function EndLink;
```

Default

nil

Category

Control , Printing

Description

This function creates a text string which contains an embedded link. This text string is a "hot area" and clicking within that "hot area" will jump you to the HyperLink location. This method only works when your reports are rendered in HTML or PDF formats.

See also

TBaseReport Class, *StartLink*, *EndLink*

Example (Delphi)

```
// Print your text with a Hyperlink
PrintLeft(MakeLink('Tutorials',www.nevrona.com/Default.aspx?tabid=179),  2.5);
```

Example (C++Builder)

```
rp1->PrintLeft(rp1->MakeLink('Tutorials',www.nevrona.com/Default.aspx?tabid=17
9), 2.5);
```

5.73 MemoHeightLeft

Declaration

```
function MemoHeightLeft: double;
```

Category

Memo

Description

This method will return the height necessary to print the memo buffer for the current font between *PrintStart* and *PrintEnd*.

NOTE:

You must initialize the TMemoBuf.BaseReport before calling this method.

See also

TMemoBuf Class, *ConstraintHeightLeft*, *MemoLinesLeft*, *PrintEnd*, *PrintMemo*, *PrintStart*, *TMemoBuf*

Example (Delphi)

```
MemoBuf.BaseReport := Sender as TBaseReport;
HeightLeft := MemoBuf.MemoHeightLeft;
```

Example (C++Builder)

```
MemoBuf->BaseReport = rp;
HeightLeft = MemoBuf->MemoHeightLeft();
```

5.74 MemoLines

Declaration

```
function MemoLines(MemoBuf: TMemoBuf): longint;
```

Category

Memo

Description

This method will return the number of lines necessary to print the memo buffer *MemoBuf* for the current font between *PrintStart* and *PrintEnd*.

See also

TBaseReport Class, *PrintEnd*, *PrintMemo*, *PrintStart*, *TMemoBuf*

Example (Delphi)

// Save number of lines needed to print memo
```
LinesLeft := RvNDRWriter1.MemoLines(MyMemo);
```

Example (C++Builder)
```
LinesLeft = RvNDRWriter1->MemoLines(MyMemo);
```

5.75 MemoLinesLeft

Declaration
```
function MemoLinesLeft: longint;
```

Category

Memo

Description

This method will return the number of lines necessary to print the memo buffer for the current font between *PrintStart* and *PrintEnd*.

NOTE:

You must initialize the TMemoBuf.BaseReport before calling this method

See also

TMemoBuf Class, *PrintEnd*, *PrintMemo*, *PrintStart*, *MemoHeightLeft*, *TMemoBuf*

Example (Delphi)
```
MemoBuf.BaseReport := Sender as TBaseReport;
LinesLeft := MemoBuf.MemoLinesLeft;
```

Example (C++Builder)
```
MemoBuf->BaseReport = rp;
LinesLeft = MemoBuf->MemoLinesLeft();
```

5.76 MoveTo

Declaration
```
procedure MoveTo(X,Y: double);
```

Category

Graphics

Description

This method will move the current graphic cursor position to the point specified by (X,Y).

See also

TBaseReport Class, *LineTo*

Example (Delphi)
```
RvNDRWriter1.MoveTo( NewX, NewY );
```

Example (C++Builder)
```
RvNDRWriter1->MoveTo( NewX, NewY );
```

5.77 NewColumn

Declaration
```
procedure NewColumn;
```

Category

Column , Control

Description

Creates a new column in addition to the columns that already exist (that were set using the SetColumns or SetColumnWidth methods). If there is not enough space on the current page, it will create one with the current settings on the next page.

See also

TBaseReport Class, *SetColumns*, *SetColumnWidth*

Example (Delphi)
```
RvNDRWriter1.NewColumn;
```

Example (C++Builder)
```
RvNDRWriter1->NewColumn();
```

5.78 NewLine

Declaration
```
procedure NewLine;
```

Category

Column , Position

Description

This method performs a carriage return (CR) followed by a line feed (LF), then resets the tabs.

See also

TBaseReport Class, *ColumnStart*, *CR*, *LF*, *ResetTabs*

Example (Delphi)
```
RvNDRWriter1.NewLine;
```

Example (C++Builder)
```
RvNDRWriter1->NewLine();
```

5.79 NewPage

Declaration
```
procedure NewPage;
```

Category

Control

Description

This method will end the current page and start printing on a new page. The *OnPrintFooter* event handler will be called before the current page is finished. The *OnPrintHeader* and *OnNewPage* event handlers will be called after the new page has been created.

See also

TBaseReport Class, *AbortPage*, *OnNewPage*, *OnPrintHeader*, *OnPrintFooter*

Example (Delphi)
```
RvNDRWriter1.NewPage;
```

Example (C++Builder)
```
RvNDRWriter1->NewPage();
```

5.80 NewPara

Declaration
```
procedure NewPara;
```

Category
Column , Control , RTF

Description
Starts a new paragraph when exporting to HTML or RTF. This differs from NewLine method in that it inserts a physical carriage return in the RTF or HTML document.

NOTE:
This is a method of all TBaseReport components but does nothing except for TRvRenderHTML and TRvRenderRTF.

See also
TBaseReport Class, *CR*, *LF*, *NewLine*

Example (Delphi)
```
RvNDRWriter1.NewPara;
```

Example (C++Builder)
```
RvNDRWriter1->NewPara();
```

5.81 NextPage

Declaration
```
procedure NextPage;
```

Category
Preview

Description
This method will go to and print the next page to the preview window. The *OnPageChange* event handler will be called if the current page number changes.

See also
TRvRenderPreview Class, *CurrentPage*, *PrevPage*, *OnPageChange*

Example (Delphi)
```
RvRenderPreview1.NextPage;
```

Example (C++Builder)
```
RvRenderPreview1->NextPage();
```

5.82 NoPrinters

Declaration
```
function NoPrinters: Boolean;
```

Category
Printer

Description
This function will return true if there are no printers defined in the current Windows system and false if there are. *TRvRenderPrinter* will not function without an installed printer driver; however, *TRvNDRWriter* and *TRvRenderPreview* will still work.

See also
TBaseReport Class, *NoPrinterPageHeight*, *NoPrinterPageWidth*

Example (Delphi)
```
// Set up for landscape paper
if NoPrinters then begin
```

```
    NoPrinterPageHeight := 8.5;
    NoPrinterPageWidth := 11.0;
  end; { if }
```

Example (C++Builder)

```
  if (rp1->NoPrinters()) {
    rp1->NoPrinterPageHeight = 8.5;
    rp1->NoPrinterPageWidth = 11.0;
  }/ if
```

5.83 Open

Declaration

```
procedure Open;
```

Category

Rave

Description

This method will open the report project file defined by ProjectFile to make it available for printing or modification.

See also

TRvProject Class, *Close*, *LoadDesigner*, *OnAfterOpen*, *OnBeforeOpen*, *ProjectFile*, *Save*

5.84 Pie

Declaration

```
procedure Pie(X1,Y1,X2,Y2,X3,Y3,X4,Y4: double);
```

Category

Graphics

Description

This method draws a pie slice inside an ellipse bounded by the rectangle defined by (X1,Y1) and (X2,Y2). The slice starts at the intersection of the line drawn between the ellipse center ((X1+X2) / 2.0,(Y1+Y2) / 2.0) and the point (X3,Y3) and is drawn counterclockwise until it reaches the intersection of the line drawn between the ellipse center and the point (X4,Y4).

See also

TBaseReport Class, *Arc*, *Ellipse*

Example (Delphi)

```
  SetBrush(clBlack, bsHorizontal, nil);
  Pie(3.25,1.0,5.25,3.0,5.25,2.0,0.0,0.0);
  SetBrush(clBlack, bsVertical, nil);
  Pie(3.25,1.0,5.25,3.0,0.0,0.0,3.25,7.0);
  SetBrush(clBlack, bsBDiagonal, nil);
  Pie(3.25,1.0,5.25,3.0,3.25,7.0,5.25,2.0);
```

Example (C++Builder)

```
  rp1->SetBrush(clBlack, bsHorizontal, NULL);
    rp1->Pie(3.25,1.0,5.25,3.0,5.25,2.0,0.0,0.0);
    rp1->SetBrush(clBlack, bsVertical, NULL);
    rp1->Pie(3.25,1.0,5.25,3.0,0.0,0.0,3.25,7.0);
    rp1->SetBrush(clBlack, bsBDiagonal, NULL);
    rp1->Pie(3.25,1.0,5.25,3.0,3.25,7.0,5.25,2.0);
```

5.85 Polygon

Declaration

```
procedure Polygon(const Points: array of TPoint);
```

Category

Graphics

Description

This method will draw a polygon using the current pen defined by the points contained in the open array *Points*. It also closes the shape between the first and last points and fills it using the current brush.

See also

TBaseReport Class

Example (Delphi)

```
RvNDRWriter1.Polygon([CreatePoint(1.0,2.0),
                      CreatePoint(2.0,3.0),
                      CreatePoint(5.0,2.0)]);
```

Example (C++Builder)

```
POINT points[3];
  points[0] = rp1->CreatePoint(1.0,2.0);
  points[1] = rp1->CreatePoint(2.0,3.0);
  points[2] = rp1->CreatePoint(5.0,2.0);
  RvNDRWriter1->Polygon(points,2);
```

5.86 Polyline

Declaration

```
procedure Polyline(const Points: array of TPoint);
```

Category

Graphics

Description

This method will draw a series of lines using the current pen connecting the points defined in the open array *Points*.

See also

TBaseReport Class, *CreatePoint*, *TPoint*

Example (Delphi)

```
PolyLineArr[1] := CreatePoint( 0  , -1   );
PolyLineArr[2] := CreatePoint(-0.59,  0.81);
PolyLineArr[3] := CreatePoint( 0.95, -0.31);
PolyLineArr[4] := CreatePoint(-0.95, -0.31);
PolyLineArr[5] := CreatePoint( 0.59,  0.81);
PolyLineArr[6] := CreatePoint( 0  , -1);
Polyline(PolyLineArr);
```

Example (C++Builder)

```
POINT PolyLineArr[7];
  PolyLineArr[1] = rp1->CreatePoint( 0  , -1   );
  PolyLineArr[2] = rp1->CreatePoint(-0.59,  0.81);
  PolyLineArr[3] = rp1->CreatePoint( 0.95, -0.31);
  PolyLineArr[4] = rp1->CreatePoint(-0.95, -0.31);
  PolyLineArr[5] = rp1->CreatePoint( 0.59,  0.81);
  PolyLineArr[6] = rp1->CreatePoint( 0  , -1);
  rp1->Polyline(PolyLineArr,6);
```

5.87 PopFont

Declaration

```
function PopFont: Boolean;
```

Category

Font

Description

This method will set the font to the setting that was last pushed by *PushFont. PopFont* will return false if no more fonts exist on the stack.

See also

TBaseReport Class, *PushFont*

Example (Delphi)

```
PushFont;
SetFont('Arial',10);
PrintLn('This is in Arial');
PopFont;
```

Example (C++Builder)

```
rp1->PushFont();
  rp1->SetFont("Arial",10);
  rp1->PrintLn("This is in Arial");
  rp1->PopFont();
```

5.88 PopPos

Declaration

```
function PopPos: Boolean;
```

Category

Position

Description

This method will set the text cursor position to the setting that was last pushed by *PushPos. PopPos* will return false if no more positions exist on the stack.

See also

TBaseReport Class, *PushPos*

Example (Delphi)

```
PushPos;
PrintXY(4,1.5,'Name');
PopPos;
```

Example (C++Builder)

```
rp1->PushPos();
rp1->PrintXY(4,1.5,"Name");
rp1->PopPos();
```

5.89 PopTabs

Declaration

```
function PopTabs: Boolean;
```

Category

Tabs

Description

This method will set the tabs to the setting that was last pushed by *PushTabs. PopTabs* will return false if no more tabs exist on the stack.

See also

TBaseReport Class, *PushTabs*

5.90 PrevPage

Declaration

```
procedure PrevPage;
```

Category

Preview

Description

This method will go to and print the previous page to the preview window. The *OnPageChange* event handler will be called if the current page number changes.

See also

TRvRenderPreview Class, *CurrentPage*, *NextPage*, *OnPageChange*

Example (Delphi)

```
RvRenderPreview1.PrevPage;
```

Example (C++Builder)

```
RvRenderPreview1->PrevPage();
```

5.91 Print (TBaseReport)

Declaration

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

Category

Printing

Description

This method will print the string, Text, at the current text cursor position. If the string contains any tab characters (9) the Tab method will be called with the default parameters. The text cursor is left at the end of the string that is printed.

See also

TBaseReport Class, *all other print functions*

Example (Delphi)

```
RvNDRWriter1.Print('Hello World!');
```

Example (C++Builder)

```
RvNDRWriter1->Print("Hello World!");
```

5.92 Print (TRpBarsBase)

Declaration

```
procedure Print;
```

Category

BarCode

Description

This method will print the bar code at the current text cursor position. The text cursor is left at the end of the string that is printed.

See also

TRpBarsBase Class, *GotoXY*, *PrintReadable*, *PrintTop*, *PrintXY*, *Text*

Example (Delphi)

```
BarCode1.Text := '12345';
BarCode1.Print;
```

Example (C++Builder)
```
BarCode1->Text = "12345";
BarCode1->Print();
```

5.93 PrintBitmap

Declaration
```
procedure PrintBitmap(X,Y: double; ScaleX, ScaleY: double; Bitmap: TBitmap);
```

Category
Graphics

Description
This method will draw *Bitmap* on the printer canvas at the point defined by (X,Y). The bitmap will be scaled by the factors *ScaleX* and *ScaleY*. (Example (Delphi) A scaling factor of 2 would draw each pixel in the bitmap as 2 pixels on the printer canvas.)

See also
TBaseReport Class, TBaseReport Class, PrintBitmapRect

Example (Delphi)
// Print MyBitmap in upper left corner four times its size
```
RvNDRWriter1.PrintBitmap( 1.0, 1.0, 2.0, 2.0, MyBitmap );
```

Example (C++Builder)
```
RvNDRWriter1->PrintBitmap( 1.0, 1.0, 2.0, 2.0, MyBitmap );
```

5.94 PrintBitmapRect

Declaration
```
procedure PrintBitmapRect(X1,Y1,X2,Y2: double; Bitmap: TBitmap);
```

Category
Graphics

Description
This method will draw *Bitmap* on the printer canvas stretched or shrunken to fit within the rectangle defined by the points (X1,Y1) and (X2,Y2).

See also
TBaseReport Class, *CalcGraphicHeight*, *CalcGraphicWidth*, *PrintBitmap*, *StretchDraw*

Example (Delphi)
```
Bitmap := TBitmap.Create;
Bitmap.LoadFromFile('RpDEMO.BMP');
PrintBitmapRect(5.375,3.5,7.375,5.5,Bitmap);
Bitmap.Free;
```

Example (C++Builder)
```
TBitmap* Bitmap = new TBitmap();
Bitmap.LoadFromFile("RpDEMO.BMP");
rp1->PrintBitmapRect(5.375,3.5,7.375,5.5,Bitmap);
delete Bitmap;
```

5.95 PrintBlock

Declaration
```
procedure PrintBlock(Text: string; Pos: double; Width: double);
```

Category
Printing

Description

This method will print *Text* on the current line starting at *Pos*. The text will be block justified within the area defined by *Width*.

See also

TBaseReport Class, *All other print functions*

Example (Delphi)

```
PrintBlock('This is block justified text',0.5,4.0);
```

Example (C++Builder)

```
rp1->PrintBlock("This is block justified text",0.5,4.0);
```

5.96 PrintCenter

Declaration

```
procedure PrintCenter(Text: string; Pos: double);
```

Category

Printing

Description

This method will print the string, *Text*, on the current line centered horizontally at the position, *Pos*.

See also

TBaseReport Class, *all other print functions*

Example (Delphi)

```
PrintCenter('Text centered at 2.0', 2.0);
```

Example (C++Builder)

```
rp1->PrintCenter("Text centered at 2.0", 2.0);
```

5.97 PrintCharJustify

Declaration

```
procedure PrintCharJustify(Text: string; Ch: char; Pos: double);
```

Category

Printing

Description

This method will print a text string out, justified at *Pos* with respect to the first occurrence of *Ch* in *Text*. This can be useful for printing columns of numbers, aligned by the decimal point, when there can be a variable number of digits after the decimal point.

See also

TBaseReport Class, *PrintLeft*, *PrintRight*

Example (Delphi)

```
// Print the number justified by the decimal point
PrintCharJustify(NumStr,'.',4.25);
```

Example (C++Builder)

```
rp1->PrintCharJustify(NumStr,".",4.25);
```

5.98 PrintData

Declaration

```
procedure PrintData(Value: string);
```

Category
Printer

Description
This method will print the string Value directly to the printer. This can be useful for sending printer specific commands to do things not normally supported by the Windows printer driver (Example (Delphi) electronic forms or HP-GL commands).

WARNING:
Including any printer specific commands in your reports may render the reports unusable on other computer systems. Use this method only on a limited basis.

NOTE:
This property may be used to send raw HTML tags and text out to the page which is not altered in any way by Rave.

See also
TBaseReport Class, All other print functions, PrintDataStream

Example (Delphi)
```
RvNDRWriter1.PrintData( SpecialCodes );
```

Example (C++Builder)
```
RvNDRWriter1->PrintData( SpecialCodes );
```

5.99 PrintDataStream

Declaration
```
procedure PrintDataStream(Stream: TStream; BufSize: longint);
```

Category
Printer

Description
This procedure will send *BufSize* bytes from *Stream* directly to the printer. If *BufSize* is 0 the remaining contents of *Stream* will be send.

NOTE:
Depending upon the content of the data sent to the printer, this command may cause your reports to be incompatible across different brands of printers. There are also many printer functions that are incompatible with the Windows printer driver and should not be used.

See also
TBaseReport Class, *PrintData*

Example (Delphi)
```
MyFileStream := TFileStream.Create('PAGE.PCL', fmOpenRead);
PrintDataStream(MyFileStream,0);
MyFileStream.Free;
```

Example (C++Builder)
```
MyFileStream = new TFileStream("PAGE.PCL", fmOpenRead);
rp1->PrintDataStream(MyFileStream,0);
delete MyFileStream;
```

5.100 PrintFimA

Declaration
```
procedure PrintFimA( X,Y: double );
```

Category
BarCode

Description

This method prints a PostNet FIM A at the given X, Y location.

See also

TRpBarsBase Class, *PrintFimB*, *PrintFimC*

Example (Delphi)
```
PostNetBC1.PrintFimA(3.5,0.5);
```

Example (C++Builder)
```
PostNetBC1->PrintFimA(3.5,0.5);
```

5.101 PrintFimB

Declaration
```
procedure PrintFimB( X,Y: double );
```

Category

BarCode

Description

This method prints a PostNet FIM B at the given X, Y location.

See also

TRpBarsBase Class, *PrintFimA*, *PrintFimC*

Example (Delphi)
```
PostNetBC1.PrintFimB(3.5,0.5);
```

Example (C++Builder)
```
PostNetBC1->PrintFimB(3.5,0.5);
```

5.102 PrintFimC

Declaration
```
procedure PrintFimC( X,Y: double );
```

Category

BarCode

Description

This method prints a PostNet FIM C at the given X, Y location.

See also

TRpBarsBase Class, *PrintFimA*, *PrintFimB*

Example (Delphi)
```
PostNetBC1.PrintFimC(3.5,0.5);
```

Example (C++Builder)
```
PostNetBC1->PrintFimC(3.5,0.5);
```

5.103 PrintFooter

Declaration
```
procedure PrintFooter(Text: string; Justify: TPrintJustify);
```

Category

Printing

Description

This method will print the string, *Text*, just above the current *SectionBottom* justified by, *Justify*, between the current *SectionLeft* and *SectionRight*.

See also

TBaseReport Class, All other print functions, GotoFooter

Example (Delphi)

```
PrintFooter('Date 01/20/95', pjRight);
```

Example (C++Builder)

```
PrintFooter("Date 01/20/95", pjRight);
```

5.104 PrintHeader

Declaration

```
procedure PrintHeader(Text: string; Justify: TPrintJustify);
```

Category

Printing

Description

This method will print the string, *Text*, just below the current *SectionTop* justified by, *Justify*, between the current *SectionLeft* and *SectionRight*.

See also

TBaseReport Class, All other print functions, GotoHeader

Example (Delphi)

```
PrintHeader( 'Report Header Text', pjCenter);
```

Example (C++Builder)

```
PrintHeader( "Report Header Text", pjCenter);
```

5.105 PrintHeight

Declaration

```
procedure PrintHeight(Height:double; PrintTabs: Boolean);
```

Category

Memo

Description

This method will print the memo buffer for the height specified by the Height parameter. If Height is 0 then all lines in the memo buffer will be printed. If *PrintTabs* is true, then *PrintHeight* will print lines of empty tabs for each line that the memo buffer is printed on.

NOTE:

If the entire memo buffer is not printed, the internal position of *MemoBuf* will be set to the last character that was printed. This will allow the memo buffer to be continued on another page.

NOTE:

You must initialize the TMemoBuf.BaseReport before calling this method.

See also

TMemoBuf Class, BaseReport, TMemoBuf, MemoHeightLeft

5.106 PrintImageRect

Declaration

```
procedure PrintImageRect(X1,Y1,X2,Y2: double; ImageStream: TStream; ImageType:
string);
```

Category
Graphics

Description
This method will draw ImageStream on the printer canvas stretched or shrunken to fit within the rectangle defined by the points (X1,Y1) and (X2,Y2).

See also
TBaseReport Class, *CalcGraphicHeight*, *CalcGraphicWidth*, *OnDecodeImage*, *PrintBitmap*, *StretchDraw*

Example (Delphi)
```
with Sender as TBaseReport do begin
  Stream := TMemoryStream.Create;
  Image := TJPEGImage.Create;
  try
    Image.LoadFromFile('image1.jpg');
    Image.SaveToStream(Stream);
    Stream.Position := 0;
    PrintImageRect(1,1,3,3,Stream,'JPG');
  finally
    Image.Free;
    Stream.Free
  end; {tryf}
end; {with}
```

Example (C++Builder)
```
TBaseReport *rp = dynamic_cast<TBaseReport*>(Sender);
Stream = new TMemoryStream->Create();
Image = new TJPEGImage->Create();
try {
  Image->LoadFromFile("image1.jpg");
  Image->SaveToStream(Stream);
  Stream->Position = 0;
  rp1->PrintImageRect(1,1,3,3,Stream, "JPG");
}
finally {
  delete Image;
  delete Stream;
}; {tryf}
```

5.107 PrintJustify

Declaration
```
procedure PrintJustify(Text: string; Pos: double; Justify: TPrintJustify;
Margin: double; Width: double);
```

Category
BarCode , Printing

Description
This method will print left, right, center or block justified text. The text will be justified inside a measurement rectangle starting at Pos and with a horizontal size of Width. Margin is the spacing between the text and the sides of the measurement rectangle in units.

See also
TBaseReport Class, *PrintBlock*, *PrintCenter*, *PrintLeft*, *PrintRight*

Example (Delphi)
```
PrintJustify('Centered Text',
    SectionLeft,pjCenter,0.0,SectionRight - SectionLeft);
{ Same as PrintCenter('Centered Text',
    (SectionLeft + SectionRight) / 2.0); }
```

Example (C++Builder)
```
rp1->PrintJustify("Centered Text",
    SectionLeft,pjCenter,0.0,SectionRight - SectionLeft);
/* Same as PrintCenter("Centered Text",
         (SectionLeft + SectionRight) / 2.0); *</pre>
```

5.108 PrintLeft

Declaration
```
procedure PrintLeft(Text: string; Pos: double);
```

Category

Printing

Description

This method will print the string *Text* on the current line left justified at the position *Pos*.

See also

TBaseReport Class, All other print functions

Example (Delphi)
```
RvNDRWriter1.PrintLeft( 'Text left at 4.0', 4.0);
```

Example (C++Builder)
```
RvNDRWriter1->PrintLeft( "Text left at 4.0", 4.0);
```

5.109 PrintLines

Declaration
```
procedure PrintLines(Lines: longint; PrintTabs: Boolean);
```

Category

Memo

Description

This method will print the memo buffer for the number of lines specified by *Lines*. If Lines is 0 then all lines in the memo buffer will be printed. If *PrintTabs* is true, then *PrintMemo* will print lines of empty tabs for each line that the memo buffer is printed on.

NOTE:

If the entire memo buffer is not printed, the internal position of *MemoBuf* will be set to the last character that was printed. This will allow the memo buffer to be continued on another page.

NOTE:

You must initialize the TMemoBuf.BaseReport before calling this method.

See also

TMemoBuf Class, BaseReport, MemoLinesLeft, TMemoBuf

5.110 PrintLn

Declaration
```
procedure PrintLn(Text: string);
```

Category
Printing

Description
This method will print the string *Text* just like the *Print* method does; however, it also calls *NewLine* to go to the next line.

See also
TBaseReport Class, All other print functions, NewLine

Example (Delphi)
```
RvNDRWriter1.Println( 'Text on a line');
RvNDRWriter1.PrintLn( 'Text on another line');
```

Example (C++Builder)
```
RvNDRWriter1->PrintLn( "Text on a line");
RvNDRWriter1->Println( "Text on another line");
```

5.111 PrintMemo

Declaration
```
procedure PrintMemo(MemoBuf: TMemoBuf; Lines: longint; PrintTabs: Boolean);
```

Category
Memo

Description
This method will print the memo buffer, *MemoBuf*, for the number of lines specified by Lines. If Lines is 0 then all lines in the memo buffer will be printed. If *PrintTabs* is true, then *PrintMemo* will print lines of empty tabs for each line that the memo buffer is printed on.

NOTE:
If the entire memo buffer is not printed, the internal position of *MemoBuf* will be set to the last character that was printed. This will allow the memo buffer to be continued on another page.

See also
TBaseReport Class, MemoLines, TMemoBuf

Example (Delphi)
```
SetColumns(3,0.25);
MemoBuf.PrintStart := ColumnStart;
MemoBuf.PrintEnd := ColumnEnd;
PrintMemo(MemoBuf, ColumnLinesLeft, false);
ClearColumns;
```

Example (C++Builder)
```
rp1->SetColumns(3,0.25);
MemoBuf->PrintStart = rp1->ColumnStart;
MemoBuf->PrintEnd := rp1->ColumnEnd;
rp1->PrintLines(MemoBuf, rp1->ColumnLinesLeft, false);
rp1->ClearColumns();
```

5.112 PrintPage

Declaration
```
procedure PrintPage(PageNum: word);
```

Category
Preview

Description

This method will print the page specified by *PageNum* to the preview window. The *OnPageChange* event handler will be called if the current page number changes.

See also

TRvRenderPreview Class, *OnPageChange*, *RedrawPage*

Example (Delphi)

```
RvRenderPreview1.PrintPage( 2);
```

Example (C++Builder)

```
RvRenderPreview1->PrintPage( 2);
```

5.113 PrintRight

Declaration

```
procedure PrintRight(Text: string; Pos: double);
```

Category

Printing

Description

This method will print the string, *Text*, on the current line right justified at the position, *Pos*.

See also

TBaseReport Class, *all other print functions*

Example (Delphi)

```
RvNDRWriter1.PrintRight('Right justified at 3.0',3.0 );
```

Example (C++Builder)

```
RvNDRWriter1->PrintRight("Right justified at 3.0",3.0 );
```

5.114 PrintTab

Declaration

```
procedure PrintTab(Text: string);
```

Category

Printing

Description

This method will print the next tab setting and then print *Text* within that tab box. This is equivalent to Print(#9 + Text); with the exception that *Text* is truncated if it is too long.

See also

TBaseReport Class, *Print*, *PrintLn*, *Tab*

Example (Delphi)

```
PrintTab(FieldByName('Name'));
```

Example (C++Builder)

```
PrintTab(FieldByName("Name"));
```

5.115 PrintXY (TBaseReport)

Declaration

```
procedure PrintXY(X,Y: double; Text: string);
```

Category

Printing

Description

This method will print the string, *Text*, at the location specified by the point (X,Y).

NOTE:

The Y position will determine the location of the baseline of the printed text.

See also

TBaseReport Class, *All other print functions*, *GotoXY*

Example (Delphi)

```
RvNDRWriter1.PrintXY( 1.0, 2.0, 'Text above (1.0, 2.0)');
```

Example (C++Builder)

```
RvNDRWriter1->PrintXY( 1.0, 2.0, "Text above (1.0, 2.0)");
```

5.116 PrintXY (TRpBarsBase)

Declaration

```
procedure PrintXY( X,Y: double );
```

Category

BarCode

Description

This method will print the bar code at the location specified by the point (X,Y).

NOTE:

The Y position will determine the location of the top of the bar code.

See also

TRpBarsBase Class, *Print*, *PrintReadable*, *PrintTop*, *Text*

Example (Delphi)

```
Code2of5.Text := '12345';
Code2of5.PrintXY( 1.0, 2.0 );
```

Example (C++Builder)

```
Code2of5->Text = "12345";
Code2of5->PrintXY( 1.0, 2.0 );
```

5.117 PushFont

Declaration

```
function PushFont: Boolean;
```

Category

Font

Description

This method will push the current font onto an internal stack for later retrieval by *PopFont*.

See also

TBaseReport Class, *PopFont*

Example

see PopFont

5.118 PushPos

Declaration

```
function PushPos: Boolean;
```

Category
Position

Description
This method will push the current text cursor position onto an internal stack for later retrieval by *PopPos*.

See also
TBaseReport Class, *PopPos*

Example
see PopPos

5.119 PushTabs

Declaration
```
function PushTabs: Boolean;
```

Category
Tabs

Description
This method will push the current tab settings onto an internal stack for later retrieval by *PopTabs*.

See also
TBaseReport Class, *PopTabs*

5.120 RecoverPrinter

Declaration
```
procedure RecoverPrinter;
```

Category
Printer

Description
This method will recover the printer handle that was released by a prior call to *ReleasePrinter*.

See also
TBaseReport Class, *ReleasePrinter*

Example
See ReleasePrinter

5.121 Rectangle

Declaration
```
procedure Rectangle(X1,Y1,X2,Y2: double);
```

Category
Graphics

Description
This method will draw a rectangle defined by the points (X1,Y1) and (X2,Y2). The rectangle will be drawn with a border of the current *pen* and filled with the current *brush*.

See also
TBaseReport Class, *RoundRect*

Example (Delphi)
```
RvNDRWriter1.Rectangle(1.0, 1.0, 4.0, 5.0);
```

Example (C++Builder)

```
RvNDRWriter1->Rectangle(1.0, 1.0, 4.0, 5.0);
```

5.122 RedrawPage

Declaration

```
procedure RedrawPage;
```

Category

Preview

Description

This method will redraw the current page for the preview screen.

See also

TRvRenderPreview Class, *PrintPage*

Example (Delphi)

```
RvRenderPreview1.RedrawPage;
```

Example (C++Builder)

```
RvRenderPreview1->RedrawPage();
```

5.123 RegisterGraphic

Declaration

```
procedure RegisterGraphic( index: integer);
```

Category

Graphics

Description

This method will help manage repeating, large bitmaps in a print job. You can register up to 10 bitmaps at once by passing in the index value from 1 to 10. With this method only one copy of the bitmap would be stored in the file with all other print functions referencing the same copy.

NOTE:

Use *UnregisterGraphic*(n) to make sure that the graphic index that you are using is cleared.

NOTE:

This method will only optimize the execution of a report through TRvNDRWriter.

See also

TBaseReport Class, *ReuseGraphic*, *UnregisterGraphic*

Example (Delphi)

```
Bitmap := TBitmap.Create;
with Sender as TBaseReport do try
  Bitmap.LoadFromFile( 'LOGO.BMP' );
  UnregisterGraphic( 1 );
  while not Table1.EOF do begin
     ReuseGraphic( 1 );
     PrintBitmapRect( 1,1,2,2,Bitmap );
     RegisterGraphic( 1 );
     { other printing code }
  end; { while }
finally
   Bitmap.Free;
end; { with }
```

Example (C++Builder)
```
Bitmap = new TBitmap();
try {
  Bitmap->LoadFromFile( "LOGO.BMP" );
  rp1->UnregisterGraphic( 1 );
  while (!Table1->Eof) {
    rp1->ReuseGraphic( 1 );
    rp1->PrintBitmapRect( 1,1,2,2,Bitmap );
    rp1->RegisterGraphic( 1 );
    / other printing code
  }/ while
}
__finally {
   delete Bitmap;
}/ tryf
```

5.124 ReleasePrinter

Declaration
```
procedure ReleasePrinter;
```

Category
Printer

Description
This method will release the printer handle from Rave so that other components, such as *TPrinterSetupDialog*, can access the printer. Use *RecoverPrinter* to re-initialize Rave and recover the printer handle.

See also
TBaseReport Class, *RecoverPrinter*

Example (Delphi)
```
RvNDRWriter1.ReleasePrinter;
PrinterSetupDialog1.Execute;
RvNDRWriter1.RecoverPrinter;
```

Example (C++Builder)
```
RvNDRWriter1->ReleasePrinter();
PrinterSetupDialog1->Execute();
RvNDRWriter1->RecoverPrinter();
```

5.125 ReplaceAll

Declaration
```
procedure ReplaceAll(SearchText: string; ReplaceText: string; CaseMatters:
Boolean);
```

Category
Memo

Description
This method will replace all occurrences of *SearchText* with *ReplaceText*. If *CaseMatters* is true then the case of the characters must match; otherwise, case will not be a factor for a match.

See also
TMemoBuf Class, *SearchFirst*, *SearchNext*

Example (Delphi)
```
MemoBuf.ReplaceAll('ame, Name, false);
MemoBuf.ReplaceAll('ddress, Address, false);
```

Example (C++Builder)
```
   MemoBuf->ReplaceAll("ame, Name, false);
   MemoBuf->ReplaceAll("ddress, Address, false);
```

5.126 ReportDescToMemo

Declaration
```
   procedure ReportDescToMemo(Memo: TCustomMemo);
```

Category
Rave

Description
Initializes the memo component, Memo, to the contents of the currently selected report description.

See also
TRvProject Class, *ReportDesc*, *SelectReport*

5.127 Reset (TBaseReport)

Declaration
```
   procedure Reset;
```

Category
Control

Description
This method will reset certain settings (*Pen, Brush, Origins, Columns, Tabs, Sections* and *Text* Cursor position) to their default values.

See also
TBaseReport Class, *ResetPrinter*

Example (Delphi)
```
   RvNDRWriter1.Reset;
```

Example (C++Builder)
```
   RvNDRWriter1->Reset();
```

5.128 Reset (TMemoBuf)

Declaration
```
   procedure Reset;
```

Category
Memo

Description
This method will reset the memo buffer back to the beginning position. Use this method if you have printed a portion of a memo buffer, but want to start at the beginning again.

See also
TMemoBuf Class, *Pos*

Example (Delphi)
```
   MemoBuf1.Reset;
```

Example (C++Builder)
```
   MemoBuf1->Reset();
```

5.129 ResetLineHeight

Declaration

```
procedure ResetLineHeight;
```

Category

Position

Description

This method will reset the property *LineHeight* to the current font if the *LineHeightMethod* property is equal to *lhmFont*. Otherwise, *ResetLineHeight* sets *LineHeight* to the value of 1.0 *LinesPerInch* or leaves it alone if *LineHeightMethod* is *lhmUser*.

See also

TBaseReport Class, *LineHeight*, *LineHeightMethod*

Example (Delphi)

```
RvNDRWriter1.ResetLineHeight;
```

Example (C++Builder)

```
RvNDRWriter1->ResetLineHeight();
```

5.130 ResetPrinter

Declaration

```
procedure ResetPrinter;
```

Category

Printer

Description

This method will reset the current printer for the settings given in the *DevMode* structure as well as other printer related settings. This function is called automatically whenever you change the current printer or change the orientation.

See also

TBaseReport Class, *DevMode*

Example (Delphi)

```
RvNDRWriter1.ResetPrinter;
```

Example (C++Builder)

```
RvNDRWriter1->ResetPrinter();
```

5.131 ResetSection

Declaration

```
procedure ResetSection;
```

Category

Position

Description

This method will reset the section values, *SectionLeft, SectionRight, SectionTop* and *SectionBottom* to be equal to the current margin settings.

See also

TBaseReport Class, *All Margin and Section properties*

Example (Delphi)

```
RvNDRWriter1.ResetSection;
```

Example (C++Builder)
```
RvNDRWriter1->ResetSection();
```

5.132 ResetTabs

Declaration
```
procedure ResetTabs;
```

Category
Tabs

Description
This method resets the current tab to the beginning. *NewLine* calls this function to reset the current tab.

See also
TBaseReport Class, *ClearTabs*, *SetTab*

Example (Delphi)
```
RvNDRWriter1.ResetTabs;
```

Example (C++Builder)
```
RvNDRWriter1->ResetTabs();
```

5.133 RestoreBuffer

Declaration
```
procedure RestoreBuffer;
```

Category
Memo

Description
This method will restore the memo buffer to the state it was in during the last call to *SaveBuffer*.

See also
TMemoBuf Class, *SaveBuffer*

5.134 RestoreFont

Declaration
```
function RestoreFont(Index: integer): Boolean;
```

Category
Font

Description
This method will restore the font settings, saved by a previous *SaveFont* call, using an Index from 1 to 10. The result of this function will be true if the call was successful.

See also
TBaseReport Class, *SaveFont*

Example (Delphi)
// Restore the font saved in position 10
```
RestoreFont(10);
```

Example (C++Builder)
```
rp1->RestoreFont(10);
```

5.135 RestorePos

Declaration

```
function RestorePos(Index: byte): Boolean;
```

Category

Position

Description

This method will set the text cursor position to the setting that was last stored at index, *Index*, by *SavePos*. The valid values for *Index* are 1 to 10.

See also

TBaseReport Class, *SavePos*

Example (Delphi)

```
RvNDRWriter1.RestorePos(1);
```

Example (C++Builder)

```
RvNDRWriter1->RestorePos(1);
```

5.136 RestoreState

Declaration

```
procedure RestoreState;
```

Category

Memo

Description

This method restores the cursor position and other state information of the memo buffer back to what it was when SaveState was called.

NOTE:

This does not effect the contents of the memo buffer.

See also

TMemoBuf Class, *Pos*, *RestoreBuffer*, *SaveState*

5.137 RestoreTabs

Declaration

```
function RestoreTabs(Index: integer): Boolean;
```

Category

Tabs

Description

This method will restore the tab settings, saved by a previous *SaveTabs* call, using an *Index* from 1 to 10. The result of this function will be true if the call was successful.

See also

TBaseReport Class, *RestoreTabs*, *SetTab*

Example (Delphi)

// Restore the tab settings in position 3
```
RestoreTabs(3);
```

Example (C++Builder)

```
RestoreTabs(3);
```

5.138 ReuseGraphic

Declaration

```
procedure ReuseGraphic;
```

Category

Graphics

Description

This method allows the use of a repeating, large bitmaps in a print job that has been registered with the *RegisterGraphic* method. With this method only one copy of the bitmap would be stored in the file with all other print functions referencing the same copy.

NOTE:

This method will only optimize the execution of a report through TRvNDRWriter.

See also

TBaseReport Class, *RegisterGraphic*, *UnregisterGraphic*

Example

See *RegisterGraphic*

5.139 RoundRect

Declaration

```
procedure RoundRect(X1,Y1,X2,Y2,X3,Y3: double);
```

Category

Graphics

Description

This method will draw a rectangle defined by the points (X1,Y1) and (X2,Y2). The corners of the rectangle will be drawn as quarters of an ellipse with a width of X3 and a height of Y3. The rectangle will be drawn with a border of the current *pen* and filled with the current *brush*.

See also

TBaseReport Class, *Ellipse*, *Rectangle*

Example (Delphi)

```
RoundRect(1.125,3.5,3.125,5.0,0.25,0.25);
```

Example (C++Builder)

```
rp1->RoundRect(1.125,3.5,3.125,5.0,0.25,0.25);
```

5.140 RTFLoadFromFile

Declaration

```
procedure RTFLoadFromFile( FileName: String);
```

Category

Memo

Description

Load an RTF text file into the memo buffer.

See also

TMemoBuf Class, *LoadFromFile*, *RTFLoadFromStream*

Example (Delphi)

```
MemoBuf1.RTFLoadFromFile('Letter.RTF');
```

Example (C++Builder)

```
MemoBuf1->RTFLoadFromFile("Letter.RTF");
```

5.141 RTFLoadFromStream

Declaration

```
procedure RTFLoadFromStream( stream: TStream; BufSize: longint);
```

Category

Memo

Description

Loads a RTF text from a stream into the memo buffer. If BufSize is 0 then remaining length of the stream is read in, otherwise, BufSize bytes are read in.

See also

TMemoBuf Class, *LoadFromFile*, *RTFLoadFromFile*

5.142 Save

Declaration

```
procedure Save;
```

Category

Rave

Description

This method will save the current report project to the file specified by the ProjectFile property.

See also

TRvProject Class, *Close*, *Open*, *ProjectFile*

5.143 SaveBuffer

Declaration

```
procedure SaveBuffer;
```

Category

Memo

Description

This method will save the current memo buffer to a saved buffer that can later be restored with RestoreBuffer. This can be useful for printing form letters that you need to modify for each print run, but want to return to the original settings at the beginning of each page.

See also

TMemoBuf Class, *FreeSaved*, *RestoreBuffer*

Example (Delphi)

```
// Save original contents
MemoBuf.SaveBuffer;
```

Example (C++Builder)

```
MemoBuf->SaveBuffer();
```

5.144 SaveFont

Declaration

```
function SaveFont(Index: integer): Boolean;
```

Category

Font

Description

This method will save the current font settings using a value of Index from 1 to 10. These settings can later be restored with a call to RestoreFont. The result of this function will be true if the call was successful.

See also

TBaseReport Class, *RestoreFont*

Example (Delphi)

// Save the current font settings in position 2
```
SaveFont(2);
```

Example (C++Builder)
```
rp1->SaveFont(2);
```

5.145 SavePos

Declaration
```
function SavePos(Index: byte): Boolean;
```

Category

Position

Description

This method will store the current text cursor position into an array at index, Index. The valid values for Index are 1 to 10.

See also

TBaseReport Class, *RestorePos*

Example (Delphi)
```
RvNDRWriter1.SavePos(1);
```

Example (C++Builder)
```
RvNDRWriter1->SavePos(1);
```

5.146 SaveRaveBlob

Declaration
```
function SaveRaveBlob(Stream: TStream);
```

Category

Rave

Description

This method will save the currently loaded report project from the application form to Stream. You should not need to call this function since the normal method of saving the loaded report project is through the TRvProject.StoreRAV property editor.

See also

TRvProject Class, *ClearRaveBlob*, *LoadRaveBlob*, *RaveBlobDateTime*, *StoreRAV*

Example (Delphi)
```
RvProject1.SaveRaveBlob( MyStream );
```

Example (C++Builder)
```
RvProject1->SaveRaveBlob( MyStream );
```

5.147 SaveState

Declaration

```
procedure SaveState;
```

Category

Memo

Description

This method saves the current cursor position, Pos, and other state information. You can restore the memo buffer state back by calling RestoreState.

See also

TMemoBuf Class, *Pos*, *RestoreState*, *SaveBuffer*

5.148 SaveTabs

Declaration

```
function SaveTabs(Index: integer): Boolean;
```

Category

Tabs

Description

This method will save the current tab settings using a value of Index from 1 to 10. These settings can later be restored with a call to RestoreTabs. The result of this function will be true if the call was successful.

See also

TBaseReport Class, *RestoreTabs*, *SetTab*

Example (Delphi)

```
// Save the current tab settings in position 5
SaveTabs(5);
```

Example (C++Builder)

```
SaveTabs(5);
```

5.149 SaveToFile

Declaration

```
function SaveToFile(FileName: String);
```

Category

Rave

Description

This method will save the report project to the file specified by FileName.

See also

TRvProject Class, *LoadFromStream*, *Save*, *SaveToStream*

Example (Delphi)

```
RvProject1.SaveToFile('Project1.Rav');
```

Example (C++Builder)

```
RvProject1->SaveToFile("Project1.Rav");
```

5.150 SaveToStream (TMemoBuf)

Declaration

```
procedure SaveToStream(Stream: TStream);
```

Category

Memo

Description

This method will save the memo buffer to the stream.

See also

TMemoBuf Class, *LoadFromStream*

Example (Delphi)

```
MemoBuf1.SaveToStream( MyStream );
```

Example (C++Builder)

```
MemoBuf1->SaveToStream( MyStream );
```

5.151 SaveToStream (TRvProject)

Declaration

```
procedure SaveToStream(Stream: TStream);
```

Category

Rave

Description

This method will save the report project to Stream.

See also

TRvProject Class, *LoadFromFile*, *LoadFromStream*, *Save*, *SaveToFile*

Example (Delphi)

```
RvProject1.SaveToStream(RaveStream);
```

Example (C++Builder)

```
RvProject1->SaveToStream(RaveStream);
```

5.152 SearchFirst

Declaration

```
function SearchFirst(SearchText: string; CaseMatters: Boolean): Boolean;
```

Category

Memo

Description

This method will start a search process, looking for SearchText from the beginning of the buffer. If CaseMatters is true then the case of the characters must match; otherwise, case will not be a factor for the match. This function will return true if it finds a match and false if it doesn't. Use SearchNext to continue the search after the first occurrence.

See also

TMemoBuf Class, *Pos*, *SearchNext*

Example (Delphi)

```
// Store the number of occurrences of 'APPLE' in apples
Apples := 0;
Found  := MemoBuf.SearchFirst('APPLE', false);
while Found do begin
  Inc(Apples);
  Found := MemoBuf.SearchNext;
end; { while }
```

Example (C++Builder)
```
Apples := 0;
Found  := MemoBuf->SearchFirst("APPLE", false);
while (Found == true) {
  Apples++;
  Found = MemoBuf->SearchNext();
}/ while
```

5.153 SearchNext

Declaration
```
function SearchNext: Boolean;
```

Category
Memo

Description
This method will continue a search initiated by SearchFirst. This function will return true if it finds a match and false if it doesn't.

See also
TMemoBuf Class, *Pos*, *SearchFirst*

Example
See SearchFirst

5.154 SelectBin

Declaration
```
function SelectBin(BinName: string): Boolean;
```

Category
Printer

Description
This method will select a bin containing BinName in its description and return a Boolean value of whether it was successful or not.

NOTE:
This method must be called before any calls to the OnNewPage event.

See also
TBaseReport Class, *Bins*, *OnNewPage*, *SupportBin*

Example (Delphi)
```
SelectBin('UPPER');
```

Example (C++Builder)
```
SelectBin("UPPER");
```

5.155 SelectPaper

Declaration
```
function SelectPaper(PaperName: string): Boolean;
```

Category
Printer

Description
This method will select a paper size containing PaperName in its description and return a Boolean value of whether it was successful or not.

See also
TBaseReport Class, *Papers*, *SupportPaper*

Example (Delphi)
```
SelectPaper('LEGAL');
```

Example (C++Builder)
```
SelectPaper("LEGAL");
```

5.156 SelectPrinter

Declaration
```
function SelectPrinter(SubStr: string; ExactMatch: Boolean): Boolean;
```

Category
Printer

Description
This method will set the current printer to the first printer in Printers that contains the substring SubStr in its name. ExactMatch determines whether you need an exact match or not on the printer name. If no printer is found then the current printer is not changed and a false value is returned.

See also
TBaseReport Class, *PrinterIndex*

Example (Delphi)
```
SelectPrinter('Laser', false);
```

Example (C++Builder)
```
SelectPrinter("Laser", false);
```

5.157 SelectReport

Declaration
```
function SelectReport(ReportName: string; FullName: Boolean): Boolean;
```

Category
Rave

Description
This method will select the report specified by ReportName. If FullName is true, the function will search the report whose full name matches, otherwise it will search the short names. The result of the function is whether the selection of the report, ReportName, was successful or not.

See also
TRvProject Class, *GetReportList*, *ReportFullName*, *ReportName*

5.158 SetBrush

Declaration
```
procedure SetBrush(NewColor: TColor; NewStyle: TBrushStyle; NewBitmap:
TBitmap);
```

Category
Graphics

Description
This method will set the current brush for the given parameters. If a bitmap is not desired, pass in the value of nil.

See also
TBaseReport Class, *CreateBrush*, *TBrushStyle*, *TColor*

Example (Delphi)

```
RvNDRWriter1.SetBrush(clBlack, bsClear, nil);
```

Example (C++Builder)

```
RvNDRWriter1->SetBrush(clBlack, bsClear, NULL);
```

5.159 SetColumns

Declaration

```
procedure SetColumns(NewColumns: integer; Between: double);
```

Category

Column

Description

This method sets up a specific number of columns, NewColumns, with a separation, Between, between each column. The column width is calculated to fit within the current SectionLeft and SectionRight.

See also

TBaseReport Class, *ColumnWidth*, *SectionLeft*, *SectionRight*, *SetColumnWidth*

Example (Delphi)

// This code shows how to create 4 columns and send output to them. Also see PrintMemo. { with 0.5" between each }

```
SetColumns(4,0.5);
while ColumnLinesLeft > 0 do begin
  PrintLn(IntToStr(LinesLeft) + '/' +
   IntToStr(ColumnLinesLeft) + '/' +
   IntToStr(LineNum)         + '/' +
   IntToStr(ColumnNum));
end; { while }
```

Example (C++Builder)

```
rp1->SetColumns(4,0.5);
while (rp1->ColumnLinesLeft() > 0) {
  rp1->PrintLn( IntToStr(rp1->LinesLeft())   + "/" +
               IntToStr(rp1->ColumnLinesLeft()) + "/" +
               IntToStr(rp1->LineNum)         + "/" +
               IntToStr(rp1->ColumnNum));
}/ while
```

5.160 SetColumnWidth

Declaration

```
procedure SetColumnWidth(Width: double; Between: double);
```

Category

Column

Description

This method sets the columns to a specific width, Width, with a separation, Between, between each column. The number of columns is calculated to fit within the current SectionLeft and SectionRight.

See also

TBaseReport Class, *Columns*, *SectionLeft*, *SectionRight*, *SetColumns*

Example (Delphi)

// Create columns 2 inches wide and a half of an inch apart

```
RvNDRWriter1.SetColumnWidth( 2.0, 0.5 );
```

Example (C++Builder)
```
RvNDRWriter1->SetColumnWidth( 2.0, 0.5 );
```

5.161 SetData

Declaration
```
procedure SetData(var Buffer; BufSize: longint);
```

Category
Memo

Description
This method will assign the data in Buffer (for BufSize bytes) to the memo buffer. This can be useful for long strings that are more than 255 characters.

See also
TMemoBuf Class, *Text*

Example (Delphi)
// Assign a PChar to a memo buffer
```
MemoBuf.SetData(PCharVar^, StrLen(PCharVar));
```

Example (C++Builder)

5.162 SetFont

Declaration
```
procedure SetFont(NewName: string; NewSize: integer);
```

Category
Font

Description
This method will set the current font for the given parameters. NewSize is the point size of the font (1/72nds of an inch).

NOTE:
If you are using a symbol set, be sure to use FontCharSet after the SetFont method.

See also
TBaseReport Class, *AssignFont*, *CreateFont*, *FontCharSet*

Example (Delphi)
```
RvNDRWriter1.SetFont( 'Arial', 10 );
```

Example (C++Builder)
```
RvNDRWriter1->SetFont( "Arial", 10 );
```

5.163 SetPaperSize

Declaration
```
procedure SetPaperSize(Size: integer; Width: double; Height: double);
```

Category
Printer

Description
This method will set the current paper size for the selected printer to the settings of either the Windows API constant, Size (see TDevMode.dmPaperSize) or if Width and Height are non-zero then it will attempt to set a custom paper size.

NOTE:

Not all printer drivers support custom page sizes and most have minimum and maximum acceptable values.

See also

TBaseReport Class

Example (Delphi)

// Set papersize to 10" wide by 12" high then set papersize to 8.5 wide by 14" high
```
RvNDRWriter1.SetPaperSize(0,10,12);
RvNDRWriter1.SetPaperSize(DMPAPER_LEGAL,0,0);
```

Example (C++Builder)
```
RvNDRWriter1->SetPaperSize(0,10,12);
RvNDRWriter1->SetPaperSize(DMPAPER_LEGAL,0,0);
```

5.164 SetParam

Declaration
```
procedure SetParam(ParamName: string; ParamValue: string);
```

Category

Rave

Description

SetParam allows the application to pass project parameters to the currently loaded Rave project. These parameters can be used to control dynamic layouts, SQL parameters or other items to print in a visually designed report.

See also

TRvProject Class, *GetParam*

Example (Delphi)
```
RvProject1.SetParam('UserName',UserName);
```

Example (C++Builder)
```
RvProject1->SetParam("UserName",UserName);
```

Example (in Visual Designer Event)
```
RaveProject.SetParam('UserName',UserName);
```

5.165 SetPen

Declaration
```
procedure SetPen(NewColor: TColor; NewStyle: TPenStyle; NewWidth: integer;
NewMode: TPenMode);
```

Category

Graphics

Description

This method will set the current pen for the given parameters. The NewWidth parameter, if positive, is the width of the pen in printer units (dots) and if negative, is the width on the pen in 1/100ths of an inch.

See also

TBaseReport Class, *CreatePen*, *TColor*, *TPenMode*, *TPenStyle*

Example (Delphi)
```
RvNDRWriter1.SetPen(clBlack,psSolid,-2,pmCopy);
```

Example (C++Builder)

```
RvNDRWriter1->SetPen(clBlack,psSolid,-2,pmCopy);
```

5.166 SetPIVar

Declaration

```
procedure SetPIVar(PIVarName: string; PIVarValue: string);
```

Category

Printing

Description

This method allows you to initialize the value of a PIVar (Post Initialize Variable). Any PIVars of the same name that were previously printed will show this value. A common use for PIVars is to print a total in a header band that would be initialized later in the footer band. This works even across multiple pages. TRvSystem.SystemOptions.soUserFiler must be true if you are using PIVars in your report.

See also

TBaseReport Class, *PIVar*

Example

see *PIVar*

5.167 SetRTF

Declaration

```
procedure SetRTF(var Buffer; BufSize: longint);
```

Category

Memo, RTF

Components

TRvRenderRTF

Description

Works exactly like SetData, except the data stored in Buffer is RTF text.

See also

RTFText, *SetData*

5.168 SetTab

Declaration

```
procedure SetTab(NewPos: double; NewJustify: TPrintJustify; NewWidth: double;
NewMargin: double; NewLines: byte; NewShade: byte);
```

Category

Tabs

Description

This method adds a tab setting.

NewPos	defines the starting position of the tab. If NewPos is set to the constant, NA, then the tab will start immediately after the previous tab box
NewJustify	defines whether the tab is left (pjLeft), right (pjRight) or center (pjCenter) justified. If a non-zero width is given, then a tab box is defined and the text will be justified within the tab box rather than justified at the tab position
NewMargin	defines the distance between the tab box side and the text in 1/100ths of an inch
NewLines	uses the BoxLineXxxx constants to define where lines are to be drawn around the tab box
NewShade	defines the percent of background shading to use for this tab box

See also

TBaseReport Class, *ClearTabs*, *ResetTabs*

Example (Delphi)
```
ClearTabs;
SetPen(clBlack, psSolid,1, pmCopy);
SetTab(0.5,pjCenter,3.5,0, BOXLINEALL,0);
SetTab(NA, pjCenter,1.0,0, BOXLINEALL,0);
SetTab(NA, pjCenter,1.5,0, BOXLINEALL,0);
SetTab(NA, pjCenter,1.5,0, BOXLINEALL,0);
Bold := true;
Tab(-2,NA,-2,-2,NA);
Print('Name');
Tab(NA,NA,-2,-2,NA);
Print('Number');
Tab(NA,NA,-2,-2,NA);
Print('Amount 1');
Tab(NA,-2,-2,-2,NA);
PrintLn('Amount 2');
Bold := false;
```

Example (C++Builder)
```
rp1->ClearTabs();
  rp1->SetPen(clBlack, psSolid,1, pmCopy);
  rp1->SetTab(0.5,pjCenter,3.5,0, BOXLINEALL,0);
  rp1->SetTab(NA, pjCenter,1.0,0, BOXLINEALL,0);
  rp1->SetTab(NA, pjCenter,1.5,0, BOXLINEALL,0);
  rp1->SetTab(NA, pjCenter,1.5,0, BOXLINEALL,0);
  rp1->Bold = true;
  rp1->Tab(-2,NA,-2,-2,NA);
  rp1->Print("Name");
  rp1->Tab(NA,NA,-2,-2,NA);
  rp1->Print("Number");
  rp1->Tab(NA,NA,-2,-2,NA);
  rp1->Print("Amount 1");
  rp1->Tab(NA,-2,-2,-2,NA);
  rp1->PrintLn("Amount 2");
  rp1->Bold = false;
```

5.169 SetTopOfPage

Declaration
```
procedure SetTopOfPage;
```

Category

Position

Description

This method will set SectionTop to the bottom of the current line.

See also

TBaseReport Class, *MarginTop*, *SectionTop*

Example (Delphi)
```
RvNDRWriter1.SetTopOfPage;
```

Example (C++Builder)
```
RvNDRWriter1->SetTopOfPage();
```

5.170 ShadeToColor

Declaration
```
function ShadeToColor(ShadeColor: TColor; ShadePercent: byte): TColor;
```

Category
Graphics

Description
This function will create a color that only has ShadePercent amount of Shadecolor.

See also
TBaseReport Class, *SetBrush*, *TColor*

5.171 ShowPrintDialog

Declaration
```
function ShowPrintDialog: Boolean;
```

Category
Printer

Description
Brings up the standard Windows PrintDialog. Use this function instead of Delphi's TPrintDialog component.

See also
TBaseReport Class, *ShowPrinterSetupDialog*

Example (Delphi)
```
if RvNDRWriter1.ShowPrintDialog then begin
  RvNDRWriter1.Execute;
end; { if }
```

Example (C++Builder)
```
if (RvNDRWriter1->ShowPrintDialog()) {
  RvNDRWriter1->Execute();
}/ if
```

5.172 ShowPrinterSetupDialog

Declaration
```
function ShowPrinterSetupDialog: Boolean;
```

Category
Printer

Description
Brings up the standard Windows PrinterSetupDialog. Use this function instead of Delphi's TPrinterSetupDialog component.

See also
TBaseReport Class, *ShowPrintDialog*

Example (Delphi)
```
if RvNDRWriter1.ShowPrinterSetupDialog then begin
  RvNDRWriter1.Execute;
end; { if }
```

Example (C++Builder)
```
if (RvNDRWriter1->ShowPrinterSetupDialog()) {
  RvNDRWriter1->Execute();
}/ if
```

5.173 SoftLine

Declaration

procedure SoftLine;

Category

RTF

Components

TRvRenderRTF

Description

This method should be called to go to the next line in an RTF exported document without inserting a hard carriage return. For printer based output (TRvRenderPrinter, TRvNDRWriter) this method performs the same as NewLine.

See also

NewLine, *NewPara*

5.174 Start

Declaration

```
procedure Start;
```

Category

Control

Description

For TRvRenderPreview, this method starts a preview session and draws the first page to the preview screen. Use the methods, PrevPage, NextPage, PrintPage, ZoomIn and ZoomOut to interact with the user of the preview screen after Start has been called. For TRvNDRWriter, these methods start a printing job that should be terminated later with a call to Finish. All event handlers are active except for OnPrint and OnPrintPage which are used only with Execute.

See also

TBaseReport Class, *Execute*, *Finish*

Example (Delphi)

```
RvRenderPreview1.Start;
```

Example (C++Builder)

```
RvRenderPreview1->Start();
```

5.175 StretchDraw

Declaration

```
procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
```

Category

Graphics

Description

This method draws the graphic object, Graphic, to the printer canvas stretched or shrunken to fit within the rectangle, Rect.

NOTE:

Do not use StretchDraw for bitmaps, instead use PrintBitmap or PrintBitmapRect.

See also

TBaseReport Class, *CreateRect*, *Draw*, *PrintBitmap*, *PrintBitmapRect*, *TGraphic, TRect*

5.176 SupportBin

Declaration

```
function SupportBin(BinNum: integer): Boolean;
```

Category

Printer

Description

This method will return true if the bin number (see TDevMode.dmDefaultSource in the Windows API help) specified by BinNum is supported by the printer, otherwise it will return false.

See also

TBaseReport Class, *SelectBin*, *other Support methods, TDevMode in Windows API help*

5.177 SupportCollate

Declaration

```
function SupportCollate: Boolean;
```

Category

Printer

Description

This method will return true if the printer supports collation, otherwise it will return false.

See also

TBaseReport Class, *Other Support methods*

5.178 SupportDuplex

Declaration

```
function SupportDuplex: Boolean;
```

Category

Printer

Description

This method will return true if the current printer supports duplex (double sided) printing.

See also

TBaseReport Class, *Duplex*, *Other Support methods*

5.179 SupportOrientation

Declaration

```
function SupportOrientation: Boolean;
```

Category

Printer

Description

This method will return true if the current printer supports orientation changes.

See also

TBaseReport Class, *Other Support methods*

5.180 SupportPaper

Declaration

```
function SupportPaper(PaperNum: integer): Boolean;
```

Category

Printer

Description

This method will return true if the paper number (see TDevMode.dmPaperSize in the Windows API help) specified by PaperNum is supported by the printer, otherwise it will return false.

See also

TBaseReport Class, SelectPaper, SupportPaper, *Other Support methods, TDevMode in Windows API help*

5.181 Tab

Declaration

```
procedure Tab(LeftWidth: integer; RightWidth: integer; TopWidth: integer;
BottomWidth: integer; ShadeOverride: integer);
```

Category

Tabs

Description

This method sets the current tab settings to the next available tab. If the next tab is a tab box, then the lines for that tab are drawn at this time as well as any shading that might apply. The *LeftWidth, RightWidth, TopWidth* and *BottomWidth* are overrides for the width of the side of the tab box in 1/100ths of an inch, but should be passed as the constant, NA, for the default pen width. If the *LeftWidth, RightWidth, TopWidth* or *BottomWidth* parameter(s) are positive, then it is the width of the pen in printer units (dots) and if negative, it is the width on the pen in 1/100ths of an inch. *ShadeOverride* is a percent of shading to draw the background of the tab box in and will override TabShade or the original setting of the tab box shading.

See also

TBaseReport Class, *SetTab*, *TabShade*

Example (Delphi)

```
with RvNDRWriter1 do begin
  Tab(-2,NA,-2,-2,NA);
  Print('First tab');
  Tab(NA,NA,-2,-2,NA);
  Print('Second tab');
end; { with }
```

Example (C++Builder)

```
rp1->Tab(-2,NA,-2,-2,NA);
rp1->Print("First tab");
rp1->Tab(NA,NA,-2,-2,NA);
rp1->Print("Second tab");
```

5.182 TabEnd

Declaration

```
function TabEnd(Index: integer): double;
```

Category

Tabs

Description

This method will return the horizontal ending position of the tab box specified by Index. If Index is 0 then the result will be for the current tab and if Index is greater than the number of defined tabs then a value of 0.0 will be returned.

See also

TBaseReport Class, *GetTab*, *TabStart*, *TabWidth*

Example (Delphi)

// End of current tab region
```
CurrEnd := RvNDRWriter1.TabEnd( 0);
```

Example (C++Builder)
```
CurrEnd = RvNDRWriter1->TabEnd( 0);
```

5.183 TabStart

Declaration
```
function TabStart(Index: integer): double;
```

Category

Tabs

Description

This method will return the horizontal starting position of the tab box specified by Index. If Index is 0 then the result will be for the current tab and if Index is greater than the number of defined tabs then a value of 0.0 will be returned.

See also

TBaseReport Class, *GetTab*, *TabEnd*, *TabWidth*

Example (Delphi)

// Start of current tab region
```
CurrStart := RvNDRWriter1.TabStart( 0);
```

Example (C++Builder)
```
CurrStart = RvNDRWriter1->TabStart( 0);
```

5.184 TabWidth

Declaration
```
function TabWidth(Index: integer): double;
```

Category

Tabs

Description

This method will return the width of the tab box specified by *Index*. If *Index* is 0 then the result will be for the current tab and if *Index* is greater than the number of defined tabs then a value of 0.0 will be returned.

See also

TBaseReport Class, *TabEnd*, *TabStart*

Example (Delphi)

// Width of current tab region
```
CurrWidth := RvNDRWriter1.TabWidth( 0);
```

Example (C++Builder)
```
CurrWidth = RvNDRWriter1->TabWidth( 0);
```

5.185 TextRect

Declaration

```
procedure TextRect( Rect: TRect; X,Y: double; const Text: string);
```

Category

Graphics

Description

This method will draw *Text* clipped within the rectangle defined by *Rect*. The point (X,Y) defines the starting point of the text. Use *CreateRect* to initialize Rect.

See also

TBaseReport Class, *CreateRect*, *All print methods, TRect*

Example (Delphi)

```
var   TxtRect: TRect;
      TxtXPos: double;
      TxtYPos: double;
          Txt: string;
begin
  TxtRect := CreateRect(1.00,1.00,3.00,3.00);
  TxtXPos := 0.95;
  TxtYPos := 0.95;
  Txt := 'Text is clipped off!';
  TextRect(TxtRect, TxtXPos, TxtYPos, Txt);
end;
```

Example (C++Builder)

```
TRect TxtRect;
double TxtXPos;
double TxtYPos;
AnsiString Txt;
TxtRect = rp1->CreateRect(1.00,1.00,3.00,3.00);
TxtXPos = 0.95;
TxtYPos = 0.95;
Txt = "Text is clipped off!";
rp1->TextRect(TxtRect, TxtXPos, TxtYPos, Txt);
```

5.186 TextWidth

Declaration

```
function TextWidth(Text: string): double;
```

Category

Position

Description

This method will return the length of the string, *Text*.

See also

TBaseReport Class

Example (Delphi)

```
var   TxtLen: double;
begin
   TxtLen := TextWidth( "How long am I?" );
end;
```

Example (C++Builder)

```
double TxtLen = rp1->TextWidth("How long am I?");
```

5.187 UnregisterGraphic

Declaration

```
procedure UnregisterGraphic( index: integer );
```

Category

Graphics

Description

This method will help manage repeating, large bitmaps in a print job. This method is used to insure that the index used by *RegisterGraphic* is clear. You must call this method if you have previously registered a graphic in that index. However, it is safe and **recommended** to always call *UnregisterGraphic* before using these graphic index methods.

See also

TBaseReport Class, *RegisterGraphic*, *ReuseGraphic*

Example

See RegisterGraphic

5.188 UpdateStatus

Declaration

```
procedure UpdateStatus;
```

Category

Misc

Description

This method will update the label defined by *StatusLabel* with the current information defined by the report status or the items contained in *StatusText*.

See also

TBaseReport Class, *StatusLabel*, *StatusText*

Example (Delphi)

// After report execution, depending on whether the user aborted the report's creation or not, the status bar is updated with the appropriate message.

```
if Aborted then begin
  StatusFormat := #13'Report Canceled!';
  UpdateStatus;
end else begin
  StatusFormat := #13'Report Completed!';
  UpdateStatus;
end; { else }
```

Example (C++Builder)

```
if (rp1->Aborted) {
  rp1->StatusFormat = "\nReport Canceled!";
  rp1->UpdateStatus();
}
else {
  rp1->StatusFormat = "\nReport Completed!";
  rp1->UpdateStatus();
}/ else
```

5.189 WriteBCDData

Declaration

```
function WriteBCDData(FormatData: String; NativeData: Currency): String;
```

Category

Rave

Description

This method writes the contents of a custom BCD field (of type dtBCD) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. The FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. The NativeData parameter should contain the unmodified contents of the field.

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteBCDData( ' ',InvoiceAmount );
```

Example (C++Builder)
```
Connection->WriteBCDData( " ",InvoiceAmount );
```

5.190 WriteBlobData

Declaration
```
function WriteBlobData(var: Buffer; Len: Longint): String;
```

Category

Rave

Description

This method writes the contents of a custom blob field (of type dtBlob / dtGraphic / dtMemo) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event.

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteBlobData( '',CustomerPict );
```

Example (C++Builder)
```
Connection->WriteBlobData( "",CustomerPict );
```

5.191 WriteBoolData

Declaration
```
function WriteBoolData(FormatData: String; NativeData: Boolean): String;
```

Category

Rave

Description

This method writes the contents of a custom Boolean field (of type dtBoolean) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. The FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. The NativeData parameter should contain the unmodified contents of the field.

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteBoolData( '',CustomerActive );
```

Example (C++Builder)
```
Connection->WriteBoolData( "",CustomerActive );
```

5.192 WriteCurrData

Declaration
```
function WriteCurrData(FormatData: String; NativeData: Currency): String;
```

Category
Rave

Description
This method writes the contents of a custom Currency field (of type dtFloat) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. NativeData parameter should contain the unmodified contents of the field

See also
TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteCurrData( '',InvoiceAmount );
```

Example (C++Builder)
```
Connection->WriteCurrData( "",InvoiceAmount );
```

5.193 WriteDateTime

Declaration
```
function WriteDateTime(FormatData: String; NativeData: TDateTime);
```

Category
Rave

Description
This method writes the contents of a custom DateTime field (of type dtDate / dtTime / dtDateTime) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. NativeData parameter should contain the unmodified contents of the field

See also
TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteDateTime( '',Now );
```

Example (C++Builder)
```
Connection->WriteDateTime( "",Now );
```

5.194 WriteFloatData

Declaration
```
function WriteFloatData(FormatData: String; NativeData: Extended): String;
```

Category
Rave

Description

This method writes the contents of a custom BCD field (of type dtFloat) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. NativeData parameter should contain the unmodified contents of the field

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteFloatData( '',CustomerBudget );
```

Example (C++Builder)
```
Connection->WriteFloatData( "",CustomerBudget );
```

5.195 WriteIntData

Declaration
```
function WriteIntData(FormatData: String; NativeData: Integer): String;
```

Category

Rave

Description

This method writes the contents of a custom integer field (of type dtInteger) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. NativeData parameter should contain the unmodified contents of the field

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteIntData( '',CustomerCount );
```

Example (C++Builder)
```
Connection->WriteIntData( "",CustomerCount );
```

5.196 WriteNullData

Declaration
```
function WriteNullData( no parameters );
```

Category

Rave

Description

This method writes a null inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event.

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)
```
Connection.WriteNullData( );
```

Example (C++Builder)
```
Connection->WriteNullData( );
```

5.197 WriteStrData

Declaration

```
function WriteStrData(FormatData: String; NativeData: String): String;
```

Category

Rave

Description

This method writes the contents of a custom String field (of type dtString) inside of the OnGetRow event of a data connection component. The data for custom fields must be written in the same order as the fields were defined in the OnGetCols event. FormatData parameter defines the formatted value of the field, but can be blank if no pre-formatted output is needed. NativeData parameter should contain the unmodified contents of the field.

Please see WriteBlobData for type dtMemo data fields.

See also

TRvCustomConnection Class, OnGetCols, OnGetRow, other WriteXxxxData methods

Example (Delphi)

```
Connection.WriteStrData( '',CustomerName );
```

Example (C++Builder)

```
Connection->WriteStrData( "",CustomerName );
```

5.198 XD2I

Declaration

```
function XD2I(Pos: longint): double;
```

Category

Units

Description

This method will convert horizontal printer canvas measurements (dots) to inch measurements.

See also

TRvRenderPreview Class, All other units conversion functions

Example (Delphi)

```
// With Units currently set to unInch
XPos := RvNDRWriter1.XD2I( LastXDots );
```

Example (C++Builder)

```
XPos = RvNDRWriter1->XD2I( LastXDots );
```

5.199 XD2U

Declaration

```
function XD2U(Pos: longint): double;
```

Category

Units

Description

This method will convert horizontal printer canvas measurements (dots) to unit measurements (defined by *Units* and *UnitsFactor*).

See also
TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
XPos := RvNDRWriter1.XD2U( LastXDots );
```

Example (C++Builder)
```
XPos = RvNDRWriter1->XD2U( LastXDots );
```

5.200 XI2D

Declaration
```
function XI2D(Pos: double): longint;
```

Category
Units

Description
This method will convert horizontal inch measurements to printer canvas measurements (dots).

See also
TBaseReport Class, *All other units conversion functions*

Example (Delphi)
// With Units currently set to unInch
```
CurrXDots := RvNDRWriter1.XI2D( RvNDRWriter1.XPos );
```

Example (C++Builder)
```
CurrXDots = RvNDRWriter1->XI2D( RvNDRWriter1->XPos );
```

5.201 XI2U

Declaration
```
function XI2U(Pos: double): double;
```

Category
Units

Description
This method will convert horizontal inch measurements to unit measurements (defined by *Units* and *UnitsFactor*).

See also
TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
XPos := RvNDRWriter1.XI2U( LastXInch );
```

Example (C++Builder)
```
XPos = RvNDRWriter1->XI2U( LastXInch );
```

5.202 XU2D

Declaration
```
function XU2D(Pos: double): longint;
```

Category
Units

Description
This method will convert horizontal unit measurements (defined by *Units* and *UnitsFactor*) to printer canvas measurements (dots).

See also

TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
CurrXDots := RvNDRWriter1.XU2D( RvNDRWriter1.XPos );
```

Example (C++Builder)
```
CurrXDots = RvNDRWriter1->XU2D(RvNDRWriter1->XPos );
```

5.203 XU2I

Declaration
```
function XU2I(Pos: double): double;
```

Category

Units

Description

This method will convert horizontal unit measurements (defined by *Units* and *UnitsFactor*) to inch measurements.

See also

TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)

// With units set to unCM
```
CurrXInch := RvNDRWriter1.XU2I( RvNDRWriter1.XPos );
```

Example (C++Builder)
```
CurrXInch = RvNDRWriter1->XU2I( RvNDRWriter1->XPos );
```

5.204 YD2I

Declaration
```
function YD2I(Pos: longint): double;
```

Category

Units

Description

This method will convert vertical printer canvas measurements (dots) to inch measurements

See also

TBaseReport Class, *All other units conversion functions*

Example (Delphi)

// With Units currently set to unInch
```
YPos := RvNDRWriter1.YD2I( LastYDots );
```

Example (C++Builder)
```
YPos = RvNDRWriter1->YD2I( LastYDots );
```

5.205 YD2U

Declaration
```
function YD2U(Pos: longint): double;
```

Category

Units

Description

This method will convert vertical printer canvas measurements (dots) to unit measurements (defined by *Units* and *UnitsFactor*).

See also

TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
RvNDRWriter1.YPos = RvNDRWriter1.YD2U( LastYDots );
```

Example (C++Builder)
```
RvNDRWriter1->YPos = RvNDRWriter1->YD2U( LastYDots );
```

5.206 YI2D

Declaration
```
function YI2D(Pos: double): longint;
```

Category

Units

Description

This method will convert vertical inch measurements to printer canvas measurements (dots).

See also

TBaseReport Class, *All other units conversion functions*

Example (Delphi)

// With Units currently set to unInch
```
CurrYDots := RvNDRWriter1.YI2D( YPos );
```

Example (C++Builder)
```
CurrYDots = RvNDRWriter1->YI2D( RvNDRWriter1->YPos );
```

5.207 YI2U

Declaration
```
function YI2U(Pos: double): double;
```

Category

Units

Description

This method will convert vertical inch measurements to unit measurements (defined by *Units* and *UnitsFactor*).

See also

TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
RvNDRWriter1.YPos := RvNDRWriter1.YI2U( LastYInch );
```

Example (C++Builder)
```
RvNDRWriter1->YPos = RvNDRWriter1->YI2U( LastYInch );
```

5.208 YU2D

Declaration
```
function YU2D(Pos: double): longint;
```

Category
Units

Description
This method will convert vertical unit measurements (defined by *Units* and *UnitsFactor*) to printer canvas measurements (dots).

See also
TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
```
CurrYDots := RvNDRWriter1.YU2D( RvNDRWriter1.YPos );
```

Example (C++Builder)
```
CurrYDots = RvNDRWriter1->YU2D( RvNDRWriter1->YPos );
```

5.209 YU2I

Declaration
```
function YU2I(Pos: double): double;
```

Category
Units

Description
This method will convert vertical unit measurements (defined by *Units* and *UnitsFactor*) to inch measurements.

See also
TBaseReport Class, *Units*, *UnitsFactor*, *All other units conversion functions*

Example (Delphi)
// With units set to unCM
```
CurrYInch := RvNDRWriter1.YU2I( RvNDRWriter1.YPos );
```

Example (C++Builder)
```
CurrYInch = RvNDRWriter1->YU2I( RvNDRWriter1->YPos );
```

5.210 ZoomIn

Declaration
```
procedure ZoomIn;
```

Category
Preview

Description
This method will add *ZoomInc* to the current *ZoomFactor* and will make the image larger on the screen. If an *OnZoomChange* event handler is defined, then that event handler will be called and is responsible for redrawing the page otherwise the page is redrawn.

See also
TRvRenderPreview Class, *ZoomOut*, *ZoomInc*, *ZoomFactor*, *OnZoomChange*

Example (Delphi)
// This code causes the *ZoomFactor* to be incremented by *ZoomInc* percent.
```
RvRenderPreview1.ZoomIn;
```

Example (C++Builder)
```
RvRenderPreview1->ZoomIn();
```

5.211 ZoomOut

Declaration

```
procedure ZoomOut;
```

Category

Preview

Description

This method will subtract *ZoomInc* from the current *ZoomFactor* and will make the image smaller on the screen. If an *OnZoomChange* event handler is defined, then that event handler will be called and is responsible for redrawing the page, otherwise the page is redrawn.

See also

TRvRenderPreview Class, *ZoomIn*, *ZoomInc*, *ZoomFactor*, *OnZoomChange*

Example (Delphi)

```
RvRenderPreview1.ZoomOut;
```

Example (C++Builder)

```
RvRenderPreview1->ZoomOut();
```

Properties

Chapter VI

6 Properties

A property defines an attribute of an object. But a property associates specific actions with reading or modifying its data. Properties provide control over access to an object's attributes, and they allow attributes to be computed.

6.1 Aborted

Declaration

```
property Aborted: Boolean;
```

Category

Control

Description

This property will be set to true after a call to *Abort* has been made.

See also

TBaseReport Class, *Abort*

Example (Delphi)

```
RvNDRWriter1.Execute;
if RvNDRWriter1.Aborted then begin
  StatusFormat := #13 + 'Report Canceled!';
end else begin
  StatusFormat := #13 + 'Report Completed!';
end; { else }
UpdateStatus;
```

Example (C++Builder)

```
rp1->Execute();
if (rp1->Aborted) {
  rp1->StatusFormat = "\nReport Canceled!";
} else {
  rp1->StatusFormat = "\nReport Completed!";
}
rp1->UpdateStatus();
```

6.2 AccuracyMethod

Declaration

```
property AccuracyMethod: TAccuracyMethod;
```

Default

amAppearance {TRvNDRWriter}
amPositioning {TRvSystem}

Category

Control

Description

This property controls how text is written to the report file. If *AccuracyMethod* is equal to *amPositioning* then the text is written out in a manner that will be reproduced as accurately as possible on the screen or any printers. If it is equal to *amAppearance* then the text string is written out as a complete string in the normal fashion. The problem with *amAppearance* is that screen fonts often do not size the same as printer fonts. Therefore, text strings may appear shorter or longer on the preview screen than they do on the printer.

See also

TBaseReport Class

Example (Delphi)
```
RvNDRWriter1.AccuracyMethod := amAppearance;
```

Example (C++Builder)
```
RvNDRWriter1->AccuracyMethod = amAppearance;
```

6.3 Active (TRpRender)

Declaration
```
property Active: Boolean read FActive write FActive
```

Default

true

Category

Render

Description

From the Print Setup dialog box, select the option to print to file. File types may then be selected from the combobox. Setting the active property to true, which is the default, will cause the component to be listed as one of the file formats to print to.

See also

TRpRender Class, *DisplayName*

6.4 Active (TRvProject)

Declaration
```
property Active: Boolean;
```

Default

false

Category

Rave

Description

You can change or retrieve the active state of a report project with this property. Setting Active to true is the same as calling the Open method while setting Active to false is the same as calling the Close method.

See also

TRvProject Class, *Close*, *OnAfterClose*, *OnAfterOpen*, *OnBeforeClose*, *OnBeforeOpen*, *Open*

Example (Delphi)

// Same as RaveProject1.Open;
```
RvProject1.Active := True; { Same as RvProject1.Open; }
```

Example (C++Builder)
```
RvProject1->Active = true;
```

6.5 AscentHeight

Declaration
```
property AscentHeight: double;
```

Category

Position

Description
Returns the height of the line font above the baseline.

NOTE:
This applies to the line font only and not to the current text font.

See also
TBaseReport Class, *DescentHeight*, *FontHeight*, *LineHeight*

6.6 BarBottom

Declaration
```
property BarBottom: double;
```

Default
pjLeft

Category
BarCode

Description
Sets or returns the location of the bottom of the bar portion of the bar code. The location of the readable text is controlled by PrintReadable and PrintTop properties.

See also
TRpBarsBase Class, BarTop, Bottom, PrintReadable, PrintTop

Example
See Create { bar code }

6.7 BarCodeJustify

Declaration
```
property BarCodeJustify: TPrintJustify
```

Default
pjLeft

Category
BarCode

Description
This determines where the bar code is printed relative to the Position property.

pjLeft	Print the bar code left justified at Position
pjCenter	Print the bar code centered at Position
pjRight	Print the bar code right justified at Position

See also
TRpBarsBase Class, Center, Left, Position, Right

Example (Delphi)
// equivalent to Center := 2.5;
```
Position := 2.5;
BarCodeJustify := pjCenter;
```

Example (C++Builder)
```
rp1->Position = 2.5;
rp1->BarCodeJustify = pjCenter;
```

6.8 BarCodeRotation

Declaration

```
property BarCodeRotation: TBarCodeRotation
```

Default

Rot0

Category

BarCode

Description

This property allows the bar code to be rotated to 4 different orientations. The pivot point for rotation is the top left corner of the bar code.

Rot0	no rotation
Rot90	rotate 90 degrees relative to page
Rot180	rotate 180 degrees relative to page
Rot270	rotate 270 degrees relative to page

See also

TRpBarsBase Class, Left, Top

Example (Delphi)

// print Bar Code upside down

```
BarCodeRotation := Rot180;
```

Example (C++Builder)

```
rp1->BarCodeRotation = Rot180;
```

6.9 BarHeight

Declaration

```
property BarHeight: double;
```

Default

0.5 (PostNet 0.125)

Category

BarCode

Description

Sets or returns the value for the tallest bar.

See also

TRpBarsBase Class, BarWidth

Example (Delphi)

// Bars will be 3/10 inch tall

```
BarHeight := 0.3;
```

Example (C++Builder)

```
rp1->BarHeight = 0.3;
```

6.10 BarTop

Declaration

```
property BarTop: double;
```

Default

0

Category
BarCode

Description
Sets or returns the location of the top of the bar code. The location of the readable text is controlled by PrintReadable and PrintTop properties

See also
TRpBarsBase Class, BarBottom, PrintReadable, PrintTop, Top

Example (Delphi)
```
BarCode1.BarTop := 0.5;
```

Example (C++Builder)
```
BarCode1->BarTop = 0.5;
```

6.11 BarWidth

Declaration
```
property BarWidth: double
```

Default
0.01 (PostNet 0.020)

Category
BarCode

Description
Sets or returns the value of the narrow bar width.

See also
TRpBarsBase Class, BarHeight, Width

Example (Delphi)
// set narrow bar width to 2/100 ths
```
BarWidth := 0.02;
```

Example (C++Builder)
```
rp1->BarWidth = 0.02;
```

6.12 BaseReport (TMemoBuf)

Declaration
```
property BaseReport: TBaseReport
```

Default
nil

Category
Memo

Description
Sets or returns the reporting object that the memo will be printed through. There are certain methods that require this property to be initialized before the will print

See also
TMemoBuf Class, MemoHeightLeft, MemoLinesLeft, PrintHeight, PrintLines

Example (Delphi)
```
MemoBuf.BaseReport := Sender as TBaseReport;
```

Example (C++Builder)
```
MemoBuf->BaseReport = dynamic_cast<TBaseReport*>(Sender);
```

6.13 BaseReport (TRpBarsBase)

Declaration
```
property BaseReport: TBaseReport
```

Default
nil

Category
BarCode

Description
Sets or returns the reporting object that the bar code will be printed through. This property is normally set through the constructor, Create.

See also
TRpBarsBase Class, Create

Example (Delphi)
```
Barcode1.BaseReport := ( Sender as TBaseReport );
```

Example (C++Builder)
```
Barcode1->BaseReport = dynamic_cast<TBaseReport*>(Sender);
```

6.14 BaseReport (TRvSystem)

Declaration
```
property BaseReport: TBaseReport
```

Default
nil

Category
Control

Description
Provides access to the TBaseReport object that is created by RvSystem, the base class of all output classes. This property will be nil until the Execute method is called. It is normally not necessary to access this property since the TBaseReport object is passed as the Sender parameter for all printing events.

See also
TRvSystem Class, Execute

Example (Delphi)
```
RvSystem1.BaseReport.Print('This is a test');
     or
with Sender as TBaseReport do begin
  Print('This is a test'); { Equivalent code inside OnPrint event }
end; { with }
```

Example (C++Builder)
```
rp1->BaseReport->Print("This is a test");
```

6.15 Bins

Declaration
```
property Bins: TStrings;
```

Default

(the list of bins for the default printer)

Category

Printer

Description

This property will return a TStringList containing all of the valid printer bins for the current printer.

See also

TBaseReport Class, SelectBin, SupportBin, TStrings

Example (Delphi)

// Display the printer bins in a list box
```
ListBox1.Items := RvNDRWriter1.Bins;
```

Example (C++Builder)
```
ListBox1->Items = RvNDRWriter1->Bins;
```

6.16 BKColor

Declaration
```
property BKColor: TColor;
```

Default

clWhite

Category

Graphics

Description

This property returns or sets the current background color for text output.

See also

TBaseReport Class, TColor, TextBKMode

Example (Delphi)
```
RvNDRWriter1.BKColor := clWhite;
```

Example (C++Builder)
```
RvNDRWriter1->BKColor = clWhite;
```

6.17 Bold

Declaration
```
property Bold: Boolean;
```

Default

false

Category

Font

Description

This property returns or sets the bold attribute for the current font

See also

TBaseReport Class, Italic, Strikeout, Underline

Example (Delphi)
```
with RvNDRWriter1 do begin
  Bold := true;
  Print( 'Bold Text' );
  Bold := false;
end; { with }
```

Example (C++Builder)
```
rp1->Bold = true;
rp1->Print( "Bold Text" );
rp1->Bold = false;
```

6.18 Bottom

Declaration
```
property Bottom: double;
```

Category

BarCode

Description

Sets or returns the position for the bottom of the bar code. The value for this property includes the readable text if it is printed.

See also

TRpBarsBase Class, BarBottom, PrintReadable, PrintTop

6.19 BottomWaste

Declaration
```
property BottomWaste: double;
```

Category

Printer

Description

This property returns the waste area on the bottom side of the page that the printer cannot print into. It is a good idea to make sure that the report's margins are greater than or equal to its waste areas.

See also

TBaseReport Class, LeftWaste, MarginBottom, RightWaste, TopWaste

Example

See LeftWaste

6.20 BoxLineColor

Declaration
```
property BoxLineColor: TColor;
```

Default

clBlack

Category

Tabs

Description

This property will define the color used to draw the sides of tab boxes defined with SetTab.

See also

TBaseReport Class, SetTab, Tab, TabColor, TColor

Example (Delphi)
```
RvNDRWriter1.BoxLineColor := clGreen;
```

Example (C++Builder)
```
RvNDRWriter1->BoxLineColor = clGreen;
```

6.21 BoxLineXxxx constants

Declaration

const BoxLineXxxx

Category

Tabs

Description

BOXLINENONE:	No lines drawn.
BOXLINELEFT:	Line drawn on left only.
BOXLINERIGHT:	Line drawn on right only.
BOXLINETOP:	Line drawn on top only.
BOXLINEBOTTOM:	Line drawn on bottom only.
BOXLINEALL:	Lines drawn on all sides.
BOXLINELEFTRIGHT:	Lines drawn on left and right.
BOXLINETOPBOTTOM:	Lines drawn on top and bottom.
BOXLINENOTOP:	All lines except indicated are drawn.
BOXLINENOBOTTOM	
BOXLINENOLEFT	
BOXLINENORIGHT	

See also

TBaseReport Class, SetTab

Example

see SetTab

6.22 Buffer

Declaration
```
property Buffer: ^Array[ 0..MaxBufSize ] of Char;
```

Category

Memo

Description

This property is a pointer to memory buffer used by TMemoBuf.

NOTE:

Not normally necessary to access this property.

See also

TMemoBuf Class, LoadFromFile, SetData, Text

6.23 BufferInc

Declaration
```
property BufferInc: longint;
```

Default

256

Category

Memo

Description

This property controls the granularity of the memo buffer when its size changes. Setting this property to 1 will keep the buffer size exactly equal to the size of the text but will be inefficient when the buffer grows or shrinks. Setting this property to a larger value will make editing the memo buffer more efficient.

See also

TMemoBuf Class, MaxSize

Example (Delphi)
```
MemoBuf.BufferInc := 128;
```

Example (C++Builder)
```
MemoBuf->BufferInc = 128;
```

6.24 CacheDir

Declaration
```
property CacheDir: String read FCacheDir write FCacheDir
```

Category

Render HTML PDF

Description

If you are running the HTML component from a server, setting the CacheDir will allow you to specify where the temporary image files will be stored.

See also

TRpRender Class, ServerMode

6.25 Canvas

Declaration
```
property Canvas: TCanvas;
```

Category

Printer

Description

This method returns the TCanvas object that is being printed on.

NOTE:

Direct manipulation of the canvas is not supported or captured by TRvNDRWriter (and thus TRvRenderPrinter and TRvRenderPreview).

See also

TBaseReport Class, RpDev, TCanvas

Example (Delphi)

// Save the current canvas
```
RvNDRWriter1.Canvas.Pen := SavePen;
```

Example (C++Builder)
```
RvNDRWriter1->Canvas->Pen = SavePen;
```

6.26 Center

Declaration
```
property Center: double;
```

Default

relative to Left and Right properties

Category

BarCode

Description

Sets or returns the position for the horizontal center of the bar code. When a value is assigned to Center the *BarCodeJustify* property is set to *pjCenter* as well.

See also

TRpBarsBase Class, BarCodeJustify, Left, Position, Right

Example (Delphi)

```
Barcode1.Center := (SectionLeft + SectionRight) / 2.0;
```

Example (C++Builder)

```
Barcode1->Center = (rp1->SectionLeft + rp1->SectionRight)/2.0;
```

6.27 CheckSum

Declaration

```
property CheckSum: Boolean;
```

Category

BarCode

Description

This property returns the checksum character(s) that is/are calculated using the current value of the Text property. If UseChecksum is true, this value will be automatically included in the bar code.

See also

TRpBarsBase Class, UseChecksum

6.28 CodePage

Declaration

```
property CodePage: TCodePage128;
```

Default

cpCodeA

Category

BarCode

Description

Specifies whether Code A, Code B or Code C is being used.

cpCodeA	sets 128 output to Code A
cpCodeB	sets 128 output to Code B
cpCodeC	sets 128 output to Code C

See also

TRpBarsBase Class

Example (Delphi)

```
// set 128 code output to C
CodePage := cpCodeC;
Text := '125692';
```

Example (C++Builder)

```
Barcode1->CodePage = cpCodeC;
Barcode1->Text = "125692";
```

6.29 Collate

Declaration

```
property Collate: Boolean
```

Default

(will be equal to the collation setting for the default printer)

Category

Printer

Description

This property will enable or disable collation.

NOTE:

This property is only supported in Delphi 2.0 and will always return false in Delphi 1.0. Not all printer drivers support collation, use *SupportCollate* to determine availability.

See also

TBaseReport Class, SupportCollate

Example (Delphi)

```
if SupportCollate then begin
  Collate := true;
end; { if }
```

Example (C++Builder)

```
if (rp1->SupportCollate()) {
  rp1->Collate = true;
}
```

6.30 ColumnEnd

Declaration

```
property ColumnEnd: double;
```

Category

Column

Description

This property will return the horizontal ending position of the current column. This can be useful for printing memo buffers inside of a column.

See also

TBaseReport Class, ColumnNum, SetColumns, SetColumnWidth

Example (Delphi)

```
// Print memo buffer
SetColumns(3,0.25);
MemoBuf.PrintStart := ColumnStart;
MemoBuf.PrintEnd   := ColumnEnd;
PrintMemo(MemoBuf, ColumnLinesLeft, false);
```

Example (C++Builder)

```
rp1->SetColumns(3,0.25);
MemoBuf->PrintStart = rp1->ColumnStart;
MemoBuf->PrintEnd   = rp1->ColumnEnd;
rp1->PrintMemo(MemoBuf, rp1->ColumnLinesLeft(), false);
```

6.31 ColumnLinesLeft

Declaration

```
function ColumnLinesLeft: integer;
```

Category

Column

Description

This method returns the number of lines that can be printed above the current *SectionBottom* for the current column plus all lines that are in remaining columns. This count includes the current line.

See also

TBaseReport Class, all column methods, LinesLeft, SectionBottom

Example (Delphi)

```
SetColumns(4, 0.5);
while ColumnLinesLeft > 0 do begin
  Println(IntToStr( LinesLeft)  + '/' +
    IntToStr(ColumnLinesLeft)   + '/' +
    IntToStr(LineNum)           + '/' +
    IntToStr(ColumnNum) );
end; { while }
```

Example (C++Builder)

```
rp1->SetColumns(4, 0.5);
while (rp1->ColumnLinesLeft() > 0) {
  rp1->PrintLn(IntToStr(rp1->LinesLeft()) + AnsiString("/") +
               IntToStr( rp1->ColumnLinesLeft()) +
               AnsiString("/") +
               IntToStr( rp1->LineNum) + AnsiString("/") +
               IntToStr( rp1->ColumnNum) );
}/ while
```

6.32 ColumnNum

Declaration

```
property ColumnNum: integer;
```

Default

1

Category

Column

Description

This property will return or set the current column number that the text cursor is on.

See also

TBaseReport Class, Columns, SetColumns, SetColumnWidth

Example (Delphi)

```
CurrColNum := RvNDRWriter1.ColumnNum;
```

Example (C++Builder)

```
CurrColNum = RvNDRWriter1->ColumnNum;
```

6.33 Columns

Declaration

```
property Columns: integer;
```

Category
Column

Description
This property returns the number of columns that are available from the last call to *SetColumns* or *SetColumnWidth*.

See also
TBaseReport Class, ColumnNum, SetColumns, SetColumnWidth

Example (Delphi)
```
CurrColumns := RvNDRWriter1.Columns;
```

Example (C++Builder)
```
CurrColumns = RvNDRWriter1->Columns;
```

6.34 ColumnStart

Declaration
```
property ColumnStart: double;
```

Category
Column

Description
This property will return the horizontal starting position of the current column. This can be useful for printing memo buffers inside of a column.

See also
TBaseReport Class, ColumnNum, SetColumns, SetColumnWidth

Example (Delphi)
```
CurrColStart := RvNDRWriter1.ColumnStart;
```

Example (C++Builder)
```
CurrColStart := RvNDRWriter1->ColumnStart;
```

6.35 ColumnWidth

Declaration
```
property ColumnWidth: double;
```

Category
Column

Description
This property returns the width of the current column.

See also
TBaseReport Class, SetColumns, SetColumnWidth

Example (Delphi)
```
CurrColWidth := RvNDRWriter1.ColumnWidth;
```

Example (C++Builder)
```
CurrColWidth := RvNDRWriter1->ColumnWidth;
```

6.36 Copies

Declaration
```
property Copies: integer;
```

Default
1

Category
Printer

Description
This property returns or sets the current number of copies of the report that will be printed by the printer.

NOTE:
Not all printers support this function, especially non-laserjet printers. Use *MaxCopies* to determine availability. For these printers, just call the report multiple times or use *TRvNDRWriter* and *TRvRenderPrinter* to speed up report generation. Use a value of 0 to retain the setting defined by TPrinterSetupDialog.

See also
TBaseReport Class, MaxCopies

Example (Delphi)
// Print three copies
```
RvNDRWriter1.Copies := 3;
```

Example (C++Builder)
```
RvNDRWriter1->Copies = 3;
```

6.37 CPI

Declaration
```
property CPI: double;
```

Default
10

Category
Misc, Render

Components
TRvRenderText

Description
Sets the Characters Per Inch for translation from horizontal units to text columns.

See also
LeftBorder, *LPI*, *NewPage*

Example (Delphi)
```
WITH RvRenderText1 do begin
  CPI := 16;
  LPI := 8;
  PrintLn('This text is 16 characters per inch');
  PrintLn('With 8 Lines per inch');
end; { with }
```

Example (C++Builder)
```
RvRenderText1->CPI = 16;
  RvRenderText1->LPI = 8;
  RvRenderText1->PrintLn("This text is 16 characters per inch");
  RvRenderText1->PrintLn("With 8 Lines per inch");
```

6.38 CurrentPage

Declaration
```
property CurrentPage: integer;
```

Category
Control

Description
This property returns the current page number.

See also
TBaseReport Class

Example (Delphi)
```
with RvRenderPreview1 do begin
  PageEdit.Text := IntToStr(CurrentPage);
  PageLabel.Caption := 'Page ' +
    IntToStr(CurrentPage-FirstPage+1) +
    ' of ' + IntToStr(Pages);
end; { with }
```

Example (C++Builder)
```
PageEdit->Text = IntToStr( RvRenderPreview1->CurrentPage);
PageLabel->Caption = AnsiString("Page ") +
          IntToStr(RvRenderPreview1->CurrentPage -
          RvRenderPreview1->FirstPage+1) +
          AnsiString(" of ") +
          IntToStr( RvRenderPreview1->Pages);
```

6.39 CurrentPass

Declaration
```
property CurrentPass: Integer;
```

Category
Misc

Description
This is the value that will be returned when a %c is encountered in a StatusFormat string. Normally set by Rave and used when printing multiple copies on a printer that does not support that option.

See also
TBaseReport Class, StatusFormat, StatusLabel, StatusText, TotalPasses, UpdateStatus

Example (Delphi)
```
RvNDRWriter1.StatusFormat := 'Printing page (Pass of )';
```

Example (C++Builder)
```
RvNDRWriter1->StatusFormat = "Printing page (Pass of )";
```

6.40 CursorXPos

Declaration
```
property CursorXPos: longint;
```

Category
Position

Description
This property returns the horizontal text cursor position in printer units (dots).

See also

TBaseReport Class, CursorYPos, XPos, YPos

Example (Delphi)
```
CurrentXDots := RvNDRWriter1.CursorXPos;
```

Example (C++Builder)
```
CurrentXDots = RvNDRWriter1->CursorXPos;
```

6.41 CursorYPos

Declaration
```
property CursorYPos: longint;
```

Category

Position

Description

This property returns the vertical text cursor position in printer units (dots).

See also

TBaseReport Class, CursorXPos, XPos, YPos

Example (Delphi)
```
CurrentYDots := RvNDRWriter1.CursorYPos;
```

Example (C++Builder)
```
CurrentYDots = RvNDRWriter1->CursorYPos;
```

6.42 DataSet

Declaration
```
property DataSet: TDataSet;
```

Default

nil

Category

Rave

Description

Specifies the *dataset* to use with the current TRvDataSetConnection component.

See also

TRvDataSetConnection Class

Example (Delphi)
```
CustomerCXN.DataSet := CustomerTable;
```

Example (C++Builder)
```
CustomerCXN->DataSet = CustomerTable;
```

6.43 DefaultDest

Declaration
```
property DefaultDest: TReportDest;
```

Default

rdPreview

Category

ReportSystem

Description

This property will determine the default report destination that appears in the setup dialog. If the setup dialog is disabled then *DefaultDest* will determine where the report is sent. Valid values are *rdFile, rdPreview* and *rdPrinter*.

See also

TRvSystem Class, ReportDest, TReportDest

Example (Delphi)

```
RvSystem1.DefaultDest := rdPrinter;
```

Example (C++Builder)

```
RvSystem1->DefaultDest = rdPrinter;
```

6.44 DescentHeight

Declaration

```
property DescentHeight: double;
```

Category

Position

Description

Returns the height of the line font below the baseline.

NOTE:

This applies to the line font only and not to the current text font.

See also

TBaseReport Class, AscentHeight, FontHeight, LineHeight

6.45 DeviceName

Declaration

```
property DeviceName: string;
```

Category

Printer

Description

This property will return the device name for the currently selected printer.

See also

TBaseReport Class, PrinterIndex

Example (Delphi)

```
// Save current device name
CurrDeviceName := RvNDRWriter1.DeviceName;
```

Example (C++Builder)

```
CurrDeviceName = RvNDRWriter1->DeviceName;
```

6.46 DevMode

Declaration

```
property DevMode: PDevMode;
```

Category

Printer

Description

This property provides access to the *TDevMode* structure for the current printer. After any changes to *DevMode* are made, *ResetPrinter* should be called.

See also

TBaseReport Class, TDevMode structure in Windows API help.

Example (Delphi)

```
// Save current printer device mode and set the print resolution to low
CurrDevMode := RvNDRWriter1.DevMode;
RvNDRWriter1.DevMode^.dmPrintQuality := DMRES_LOW;
```

Example (C++Builder)

```
PDevMode CurrDevMode = RvNDRWriter1->DevMode;
RvNDRWriter1->DevMode->dmPrintQuality = DMRES_LOW;
```

6.47 DisplayName

Declaration

```
property DisplayName: string read FDisplayName write SetDisplayName;
```

Category

Render

Description

When the Active property is set to true on a TRender component, the component will be listed in the Print to File format options. The text that will show in the drop-down list that allows you to select the component will the same as that listed in the DisplayName property.

See also

TRpRender Class, Active

6.48 DLLFile

Declaration

```
property DLLFile: string;
```

Default

'' (empty)

Category

Rave

Description

This property sets the filename that will used if the LoadDesigner property is True. The end user files are either RavePack or RaveSolo DLL depending upon whether or not you are using packages. The end user DLL file can be renamed to better "fit" your project naming conventions.

NOTE:

This feature is only available with a Rave EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also

TRvProject Class, LoadDesigner

Example (Delphi)

```
RvProject.DLLFile := 'MyName.DLL';
```

Example (C++Builder)
```
RvProject->DLLFile = "MyName.DLL";
```

6.49 DriverName

Declaration
```
property DriverName: string;
```

Category
Printer

Description
This property will return the driver name for the currently selected printer.

See also
TBaseReport Class

Example (Delphi)
// Save current driver name
```
CurrPrintDriver := RvNDRWriter1.DriverName;
```

Example (C++Builder)
```
CurrPrintDriver = RvNDRWriter1->DriverName;
```

6.50 Duplex

Declaration
```
property Duplex: TDuplex;
```

Default
(will be equal to the duplex setting for the default printer)

Category
Printer

Description
This property will set the duplex mode for the current printer. Not all printers or drivers support duplex printing, use *SupportDuplex* to determine availability.

dupSimplex	Simplex mode (Duplex mode NOT initialized)
dupHorizontal	Duplex mode initialized - print Head to Toe
*dupVertica*l	Duplex mode initialized - print Head to Head

See also
TBaseReport Class, SupportDuplex

Example (Delphi)
```
if SupportDuplex then begin
  Duplex := dupVertical;
end; { if }
```

Example (C++Builder)
```
if (rp1->SupportDuplex()) {
    rp1->Duplex = dupVertical;
  }/ if
```

6.51 Engine

Declaration
```
property Engine: TRpComponent;
```

Default

nil

Category

Rave

Description

This property allows you to define a reporting engine to be used when printing Rave reports through the TRvProject component. If this property is not defined, a default TRvSystem component will be used. TRvNDRWriter and TRvSystem are all valid component classes that can be assigned to this property.

See also

TRvProject Class, Execute, ExecuteReport

Example (Delphi)

```
RvProject1.Engine := RvSystem1;
```

Example (C++Builder)

```
RvProject1->Engine = RvSystem1;
```

6.52 Extended

Declaration

```
property Extended: Boolean;
```

Default

false

Category

BarCode

Description

If this property is true then it will output Extended Code 39 format.

See also

TRpBarsBase Class, ExtendedText

Example (Delphi)

```
Extended := True;
Text := 'Test Data';
```

Example (C++Builder)

```
Extended = true;
Text = "Test Data";
```

6.53 ExtendedText

Declaration

```
property ExtendedText: string;
```

Category

BarCode

Description

When Extended is true, this property will contain the converted Code39 text that will be printed in the bar code.

See also

TRpBarsBase Class, Extended, Text

Example (Delphi)
```
ShowMessage('The raw data of this Code 39 BarCode is ' +
   Code39Bar.ExtendedText);
```

Example (C++Builder)
```
ShowMessage("The raw data of this Code 39 BarCode is " +
   Code39Bar->ExtendedText);
```

6.54 Field

Declaration
```
property Field: TMemoField;
```

Category
Memo

Description
This property will assign the contents of a *TMemoField* component to the memo buffer.

See also
TMemoBuf Class, Pos, Size, TMemoField

Example (Delphi)
```
MemoBuf1.Field := MyMemoField;
```

Example (C++Builder)
```
MemoBuf->Field = MyMemoField;
```

6.55 FieldAliasList

Declaration
```
property FieldAliasList: TStrings;
```

Default
(blank)

Category
Rave

Description
With this property you can provide aliases or remove fields entirely in your application as far as the Rave designer is concerned. This can be used to provide easier to understand field names, remove unnecessary fields or to remove the need to read large blob fields out of reports that don't use them. The property is a simple string list and each line takes the form of "FieldName=FieldAlias". To remove a field from the list of fields that are sent to Rave, leave the FieldAlias blank. Fields that are not listed in the FieldAliasList will be passed to Rave as is (the default behavior). Field aliases can include blanks or other non-alphanumeric characters, but by doing so, the characters < and > will be automatically added around the field names for all field name references within Rave.

See also
TRvCustomConnection Class

6.56 FileName

Declaration
```
property FileName: String;
```

Default
' ' (empty)

Category
Control

Description
Specifies the file name to create when the execute method is called. For the RenderText component, if you want to go directly out to a printer in text mode (much faster for dot-matrix printers than going through the Windows printer driver), then define FileName as PRN, LPT1 or LPT2.

See also
TBaseReport Class

Example (Delphi)
```
RvNDRWriter1.FileName := 'DOC1.DOC';
```

Example (C++Builder)
```
RvNDRWriter1->FileName = "DOC1.DOC";
```

6.57 FirstPage

Declaration
```
property FirstPage: integer;
```

Default
1

Category
Control

Description
This property defines the first page of a range of pages to send to the printer. If the current page is outside this range, the property *PageInvalid* will be true.

See also
TBaseReport Class, PageInvalid

Example (Delphi)
// print only pages 3 through 5
```
RvNDRWriter1.FirstPage := 3;
RvNDRWriter1.LastPage := 5;
```

Example (C++Builder)
```
RvNDRWriter1->FirstPage = 3;
RvNDRWriter1->LastPage = 5;
```

6.58 FontAlign

Declaration
```
property FontAlign: TFontAlign;
```

Category
Font

Description
Returns or sets the current font alignment.

faTop	will align text at the top of the font located at FontTop
faBaseline	will align text at the baseline of the font located at FontBaseline
faBottom	will align text at the bottom of the font located at FontBottom

See also
TBaseReport Class, Other FontXxxx properties, FontBaseline, FontBottom, FontTop, SetFont, ResetLineHeight

Example (Delphi)
```
FontAlign := faTop;
Print('This text is aligned at the top');
FontAlign := faBaseline;
```

Example (C++Builder)
```
rp1->FontAlign = faTop;
rp1->Print("This text is aligned at the top");
rp1->FontAlign = faBaseline;
```

6.59 FontBaseline

Declaration
```
property FontBaseline: double;
```

Default
see ResetLineHeight

Category
Position

Description
Returns or sets the baseline of the line font

See also
TBaseReport Class, FontBottom, FontTop, LineBottom, LineMiddle, LineTop

Example (Delphi)
```
FontBaseline := 1.8;
```

Example (C++Builder)
```
rp1->FontBaseline = 1.8;
```

6.60 FontBottom

Declaration
```
property FontBottom: double;
```

Default
see ResetLineHeight

Category
Position

Description
Returns or sets the bottom of the line font

See also
TBaseReport Class, FontBaseline, FontTop, LineBottom, LineMiddle, LineTop

Example (Delphi)
```
FontBottom := 2.0;
```

Example (C++Builder)
```
rp1->FontBottom = 2.0;
```

6.61 FontCharset

Declaration
```
property FontCharset: byte;
```

Default

DEFAULT_CHARSET

Category

Font

Description

Allows you to change the character set of the current font. Other values can be found in the Windows API help under LOGFONT

See also

TBaseReport Class

Example (Delphi)

```
SetFont( 'Wingdings', 10 );
FontCharSet := SYMBOL_CHARSET;
```

Example (C++Builder)

```
rp1->SetFont( "Wingdings", 10 );
rp1->FontCharSet = SYMBOL_CHARSET;
```

6.62 FontColor

Declaration

```
property FontColor: TColor;
```

Default

clBlack

Category

Font

Description

Returns or sets the font color.

See also

TBaseReport Class, Other FontXxxx properties, SetFont, TColor

Example (Delphi)

```
FontColor := clRed;
Print('This text is in red.');
```

Example (C++Builder)

```
rp1->FontColor = clRed;
rp1->Print("This text is in red.");
```

6.63 FontHandle

Declaration

```
property FontHandle: HFont;
```

Category

Font

Description

This property will return the windows handle for the current printer font. This property will not normally be used but is provided for situations that require access to the printer font.

NOTE:

Canvas.Font.Handle will not equal *FontHandle*.

See also
TBaseReport Class

6.64 FontHeight

Declaration
```
property FontHeight: double;
```

Default
see ResetLineHeight

Category
Font

Description
Returns or sets the height of the line font.

NOTE:
This applies to the line font only and not the current text font.

See also
TBaseReport Class, Other FontXxxx properties, AscentHeight, DescentHeight, LineHeight

Example (Delphi)
```
FontHeight := 0.25;
```

Example (C++Builder)
```
rp1->FontHeight = 0.25;
```

6.65 FontName

Declaration
```
property FontName: string;
```

Default
'System'

Category
Font

Description
Returns or sets the current font name.

See also
TBaseReport Class, Other FontXxxx properties, SetFont

Example (Delphi)
```
FontName := 'Times New Roman';
```

Example (C++Builder)
```
rp1->FontName = "Times New Roman";
```

6.66 FontPitch

Declaration
```
property FontPitch: TFontPitch;
```

Default
fpDefault

Category
Font

Description
Returns or sets the pitch setting for the current font. The normal setting of *fpDefault* will use the font's normal pitch. *fpFixed* will attempt to convert the font to a fixed-width font and *fpVariable* will attempt to convert the font to a variable-width font. Setting a font to a pitch other than what it was designed for may have no effect or may cause another font to be substituted in its place.

See also
TBaseReport Class, Other FontXxxx properties, SetFont

Example (Delphi)
```
FontPitch := fpVariable;
```

Example (C++Builder)
```
rp1->FontPitch = fpVariable;
```

6.67 FontRotation

Declaration
```
property FontRotation: integer;
```

Default
0

Category
Font

Description
Returns or sets the font rotation in degrees from 0 to 359. 0 is for normal text and the angles increase counter-clockwise. The text cursor will be updated according to the FontRotation

See also
TBaseReport Class, Other FontXxxx properties

Example (Delphi)
```
FontRotation := 45;
Print('This text is at 45 degrees');
FontRotation := 0;
Print('This is normal text');
```

Example (C++Builder)
```
rp1->FontRotation = 45;
rp1->Print("This text is at 45 degrees");
rp1->FontRotation = 0;
rp1->Print("This is normal text");
```

6.68 Fonts

Declaration
```
property Fonts: TStrings;
```

Default
(list of fonts supported by the default printer)

Category
Printer

Description
This property will return a TStringList containing all of the fonts supported by the current printer.

See also
TBaseReport Class, FontName, SetFont, TStrings

Example (Delphi)
// Display the supported fonts in a TComboBox
```
Combobox1.Items := RvNDRWriter1.Fonts;
```

Example (C++Builder)
```
ComboBox1->Items = RvNDRWriter1->Fonts;
```

6.69 FontSize

Declaration
```
property FontSize: double;
```

Default
10

Category
Font

Description
Returns or sets the point size of the current font.

See also
TBaseReport Class, Other FontXxxx properties, SetFont

Example (Delphi)
```
FontSize := 8;
Print('Small');
FontSize := 36;
Print('Large');
```

Example (C++Builder)
```
rp1->FontSize = 8;
rp1->Print("Small");
rp1->FontSize = 36;
rp1->Print("Large");
```

6.70 FontTop

Declaration
```
property FontTop: double;
```

Default
see ResetLineHeight

Category
Position

Description
Returns or sets the top of the line font

See also
TBaseReport Class, Other FontXxxx properties, LineBottom, LineMiddle, LineTop

Example (Delphi)

// Place the top of the text at 2.25"
```
FontTop := 2.25;
```

Example (C++Builder)
```
rp1->FontTop = 2.25;
```

6.71 FontWidth

Declaration
```
property FontWidth: double;
```

Default

0

Category

Font

Description

This is used to override the average character width for a font in units. To use normal character sizes, specify a value of 0.

See also

TBaseReport Class, FontSize

Example (Delphi)

// set average character width to 1/4 inch
```
FontWidth := 0.25;
```

Example (C++Builder)
```
rp1->FontWidth = 0.25;
```

6.72 FrameMode

Declaration
```
property FrameMode: TFrameMode;
```

Default

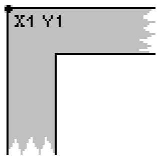
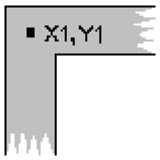
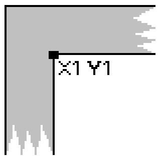
fmInside

Category

Graphics

Description

This property determines the technique used to draw the frames (borders) around graphical shapes such as rectangles and ellipses. This property will only have a noticeable effect with large pen widths.

fmInside		The frame will be drawn inside the dimensions of the shape
fmSplit		The frame will be drawn centered over the dimensions of the shape
fmOutside		The frame will be drawn outside the dimensions of the shape

NOTE:

If you are converting a report from ReportPrinter 2.0 or earlier that uses thick pens, you should set the frame mode to fmSplit which was the mode used by those older versions.

See also

TBaseReport Class, Ellipse, Rectangle

Example (Delphi)
```
FrameMode := fmOutside;
```

Example (C++Builder)
```
rp1->FrameMode = fmOutside;
```

6.73 GridHoriz

Declaration
```
property GridHoriz: double;
```

Default

0.0

Category

Preview

Description

This property will define the horizontal spacing, in units for a grid that will appear on the preview screen. A value of 0.0 will turn off the horizontal grid.

See also

TRvSystem Class, GridPen, GridVert

Example (Delphi)
```
GridHoriz := 0.25;
```

Example (C++Builder)
```
GridHoriz = 0.25;
```

6.74 GridPen

Declaration
```
property GridPen: TPen;
```

Default
(Standard Pen)

Category
Preview

Description
This property defines the pen used to draw the grid defined by *GridVert* and *GridHoriz*.

See also
TRvSystem Class, GridHoriz, GridVert, RulerType, TPen

Example (Delphi)
```
GridPen.Color := clAqua;
```

Example (C++Builder)
```
GridPen->Color = clAqua;
```

6.75 GridVert

Declaration
```
property GridVert: double;
```

Default
0.0

Category
Preview

Description
This property will define the vertical spacing, in units for a grid that will appear on the preview screen. A value of 0.0 will turn off the vertical grid.

See also
TBaseReport Class, GridHoriz, GridPen

Example (Delphi)
```
GridVert := 0.5;
```

Example (C++Builder)
```
GridVert = 0.5;
```

6.76 Height

Declaration
```
property Height: double;
```

Category
BarCode

Description
This is a read only property which contains the height of the entire bar code. If the PrintReadable property is set to true, then the Height property contains the bar code height plus the line height of the current font.

See also
TRpBarsBase Class, BarHeight, PrintReadable

Example (Delphi)
```
TotalBarHeight := Height;
if TotalBarHeight > 1.0 then begin
  BarHeight := 1.0; {set total height to 1.0 inches}
end; { if}
```

Example (C++Builder)
```
TotalBarHeight = rp1->Height;
if (TotalBarHeight > 1.0) {
  BarHeight = 1.0; / set total height to 1.0 inches
}/ if
```

6.77 IgnoreFileSettings

Declaration
```
property IgnoreFileSettings: Boolean
```

Default
false

Category
Printer

Description
When this is set to true it will ignore the printer setup values (Paper Bin, Duplex, Collate, Copies) stored in the report file and will use whatever is currently set by the user. This allows a PrinterSetupDialog to be called before the Execute method.

See also
TRvRenderPrinter Class, ShowPrintDialog, ShowPrinterSetupDialog

Example (Delphi)
```
if RvRenderPrinter1.ShowPrinterSetupDialog then begin
  RvRenderPrinter1.IgnoreFileSettings := True;
  RvRenderPrinter1.Execute;
end; {if}
```

Example (C++Builder)
```
if (RvRenderPrinter1->ShowPrinterSetupDialog()) {
  RvRenderPrinter1->IgnoreFileSettings = true;
  RvRenderPrinter1->Execute();
}/ if
```

6.78 ImageQuality

Declaration
```
property ImageQuality: TImageQualityRange read FImageQuality write
FImageQuality
```

Default
JPG'S image quality set to 90

Category
Render PDF

Description
When sending images out to PDF, the bitmaps, metafiles, etc., are converted to JPG's in order to allow PDF to print them. By default the image quality for JPG's is set to 90. If you need to change the image quality, you can do this by setting the ImageQuality property. Valid values are 1 to 100 with 100 being the absolute best quality available.

See also

TRpRender Class, BufferDocument, MetafileDPI

6.79 Italic

Declaration

```
property Italic: Boolean;
```

Default

false

Category

Font

Description

This property returns or sets the italic attribute for the current font.

See also

TBaseReport Class, Bold, Strikeout, Underline

Example (Delphi)

```
Italic := true;
Print('Italic Text');
Italic := false;
```

Example (C++Builder)

```
rp1->Italic = true;
rp1->Print("Italic Text");
rp1->Italic = false;
```

6.80 Justify

Declaration

```
property Justify: TPrintJustify;
```

Default

pjLeft

Category

Memo

Description

This property sets the justification that *PrintMemo* will use when printing the memo buffer. Valid values are

pjBlock
pjCenter
pjLeft
pjRight

See also

TMemoBuf Class, PrintMemo

Example (Delphi)

```
MemoBuf.Justify := pjBlock; { Set block justification }
```

Example (C++Builder)

```
MemoBuf->Justify = pjBlock; / Set block justification
```

6.81 LastPage

Declaration

```
property LastPage: integer;
```

Default
9999

Category
Control

Description
This property defines the last page for a range of pages to send to the printer. If the current page is outside of this range, the property *PageInvalid* will be true.

See also
TBaseReport Class, PageInvalid

Example (Delphi)
// Print only pages 3 through 5
```
RvNDRWriter1.FirstPage := 3;
RvNDRWriter1.LastPage := 5;
```

Example (C++Builder)
```
RvNDRWriter1->FirstPage = 3;
RvNDRWriter1->LastPage = 5;
```

6.82 Left

Declaration
```
property Left: double;
```

Default
XPos

Category
BarCode

Description
Sets or returns the position for the left edge of the bar code. When a value is assigned to Left, the BarCodeJustify property is set to pjLeft as well.

See also
TRpBarsBase Class, BarCodeJustify, Center, Position, Right

Example (Delphi)
// start at 4.5 inches from left side
```
Left := 4.5;
```

Example (C++Builder)
```
Left = 4.5;
```

6.83 LeftWaste

Declaration
```
property LeftWaste: double;
```

Category
Printer

Description
This property returns the waste area on the left side of the page that the printer cannot print into. It is a good idea to make sure that the report's margins are greater than or equal to its waste areas.

See also
TBaseReport Class, BottomWaste, MarginLeft, RightWaste, TopWaste

Example (Delphi)
// Don't output in the printer waste regions
```
if MarginLeft < LeftWaste then begin
  MarginLeft := LeftWaste;
end; { if }
if MarginRight < RightWaste then begin
  MarginRight := RightWaste;
end; { if }
if MarginTop < TopWaste then begin
  MarginTop := TopWaste;
end; { if }
if MarginBottom < BottomWaste then begin
  MarginBottom := BottomWaste;
end; { if }
```

Example (C++Builder)
```
if (rp1->MarginLeft < rp1->LeftWaste) {
  rp1->MarginLeft = rp1->LeftWaste;
}/ if
if (rp1->MarginRight < rp1->RightWaste) {
  rp1->MarginRight = rp1->RightWaste;
}/ if
if (rp1->MarginTop < rp1->TopWaste) {
  rp1->MarginTop = rp1->TopWaste;
}/ if
if (rp1->MarginBottom < rp1->BottomWaste) {
  rp1->MarginBottom = rp1->BottomWaste;
}/ if
```

6.84 LineBottom

Declaration
```
property LineBottom: double;
```

Default
(Bottom of the current line)

Category
Position

Description
Returns or sets the bottom of the text line.

See also
TBaseReport Class, FontBaseline, FontBottom, FontTop, LineMiddle, LineTop

Example (Delphi)
// Place the text right on the bottom of the section
```
LineBottom := SectionBottom;
```

Example (C++Builder)
```
rp1->LineBottom = rp1->SectionBottom;
```

6.85 LineHeight

Declaration
```
property LineHeight: double;
```

Category
Position

Description

This property returns or sets the current height of a line. If a value is assigned to *LineHeight* then *LineHeightMethod* will be set to *lhmUser*.

See also

TBaseReport Class, LineHeightMethod

Example (Delphi)

// Save current line height to a temporary variable
```
CurrHeight := RvNDRWriter1.LineHeight
```

Example (C++Builder)
```
CurrHeight = RvNDRWriter1->LineHeight
```

6.86 LineHeightMethod

Declaration
```
property LineHeightMethod: TLineHeightMethod;
```

Default

lhmLinesPerInch, lhmFont for TRvSystem

Category

Position

Description

This property returns or sets the current method for calculating line heights. If equal to *lhmLinesPerInch*, then the *LinesPerInch* property determines the line height. If equal to *lhmFont*, then the current font determines the line height when a new line is generated. If equal to *lhmUser* the line height will not change unless the user changes *LineHeight* directly.

See also

TBaseReport Class, LinesPerInch

Example (Delphi)
```
RvNDRWriter1.LineHeightMethod := lhmFont;
```

Example (C++Builder)
```
RvNDRWriter1->LineHeightMethod = lhmFont;
```

6.87 LineMiddle

Declaration
```
property LineMiddle: double;
```

Default

(Middle of current line)

Category

Position

Description

This property returns or sets the middle of the current text line. It is useful for aligning the middle of the current line with graphics that might be placed around the text (e.g., bullets, etc.)

See also

TBaseReport Class, FontBaseline, FontBottom, FontTop, LineBottom, LineTop

Example (Delphi)
```
LineMiddle := 2.0;
```

Example (C++Builder)

```
rp1->LineMiddle = 2.0;
```

6.88 LineNum

Declaration

```
property LineNum: integer;
```

Default

```
1
```

Category

Position

Description

This property returns or sets the current line number. This property is highly dependent upon the current *LineHeightMethod* as well as the size of the current font if *LineHeightMethod* is equal to *lhmFont*. LineNum may not represent the actual line number if the report is jumping around the page instead of calling *Prints* and *PrintLns*.

See also

TBaseReport Class, LineHeight, LineHeightMethod

Example (Delphi)

```
with RvNDRWriter1 do
  if Odd(LineNum) then begin
    TabShade :=  0;
  end else begin
    TabShade := 15;
  end; { if }
end; { with }
```

Example (C++Builder)

```
if ((rp1->LineNum 2) == 1) {
    rp1->TabShade =  0;
  }
  else {
    rp1->TabShade = 15;
  }/ else
```

6.89 LinesPerInch

Declaration

```
property LinesPerInch: integer;
```

Default

```
6
```

Category

Position

Description

This property will return or set the number of lines per inch if the *LineHeightMethod* property is equal to *lhmLinesPerInch*.

See also

TBaseReport Class, LineHeightMethod

Example (Delphi)

```
RvNDRWriter1.LineHeightMethod := lhmLinesPerInch;
```

Example (C++Builder)
```
   RvNDRWriter1->LineHeightMethod = lhmLinesPerInch;
```

6.90 LineTop

Declaration
```
   property LineTop: double;
```

Default
(Top of the current line)

Category
Position

Description
Returns or sets the top of the text line

See also
TBaseReport Class, FontBaseline, FontTop, LineBottom, LineMiddle

Example (Delphi)
```
   // Place the top of the line at 4.0"
   LineTop := 4.0;
```

Example (C++Builder)
```
   LineTop = 4.0;
```

6.91 LoadDesigner

Declaration
```
   property LoadDesigner: Boolean;
```

Default
false

Category
Rave

Description
This property determines if the end user designer will be loaded or not. If the LoadDesigner property is True then the filename in the DLLFile property will be loaded. The end user files are either RavePack or RaveSolo DLL depending upon whether you are using packages or not.

NOTE:
This feature is only available with a Rave BEX with EUDL license. See the Nevrona website at http:/www.nevrona.com for more information on obtaining an EUDL license.

See also
TRvProject Class, DLLFile, Open

6.92 LocalFilter

Declaration
```
   property LocalFilter: Boolean;
```

Default
False TRvQueryConnection and TRvTableConnection

Category
Rave

Description

This property will determine whether filtering is done locally inside of the data connection component or whether it will rely on the filtering capabilities of the database. Local is provided to support filtering on fields that do not allow exact representation in string form (floating point / date-time fields).

See also

TRvCustomConnection Class

Example (Delphi)

```
RvCustomConnection1.LocalFilter := True;
```

Example (C++Builder)

```
RvCustomConnection1->LocalFilter + True;
```

6.93 LPI

Declaration

```
property LPI: double;
```

Default

6

Category

Misc

Components

TRvRenderTEXT

Description

Sets the Lines Per Inch for translation from vertical units to text lines.

See also

CPI, *NewLine*, *TopBorder*

Example (Delphi)

```
WITH RvRenderText1 do begin
  CPI := 16;
  LPI := 8;
  PrintLn('This text is 16 characters per inch');
  PrintLn('With 8 Lines per inch');
end; { with }
```

Example (C++Builder)

```
RvRenderText1->CPI = 16;
  RvRenderText1->LPI = 8;
  RvRenderText1->PrintLn("This text is 16 characters per inch");
  RvRenderText1->PrintLn("With 8 Lines per inch");
```

6.94 MacroData

Declaration

```
property MacroData: TStrings;
```

Default

empty list

Category

Printing

Description

This property sets or returns the user-defined macro string in a list of strings for midUser01 to midUser20

See also

[TBaseReport Class](), [Macro](), [TMacroID](), TStrings

Example (Delphi)

// Add current user name for Macro(midUser01)
```
MacroData.Add(UserName);
RvRenderPrinter1.Execute;
```

Example (C++Builder)
```
rp1->MacroData->Add(UserName);
RvRenderPrinter1->Execute();
```

6.95 MarginBottom

Declaration
```
property MarginBottom: double;
```

Default

0.0

Category

Position

Description

These properties return or set the current margin settings. Margins have no direct effect on printing other than providing values to reset the current section when a new page is generated or when *ResetSection* is called. Changing a margin setting will change the same section setting to the same measurement.

See also

TBaseReport Class, MarginLeft, MarginRight, MarginTop, section properties, ResetSection

Example (Delphi)

// This code shows how to set these properties. Also see PrintFooter
```
MarginLeft   := 0.5;
MarginRight  := 0.5;
MarginTop    := 0.5;
MarginBottom := 1.0;
```

Example (C++Builder)
```
rp1->MarginLeft   := 0.5;
rp1->MarginRight  := 0.5;
rp1->MarginTop    := 0.5;
rp1->MarginBottom := 1.0;
```

6.96 MarginLeft

Declaration
```
property MarginLeft: double;
```

Default

0.0

Category

Position

Description

These properties return or set the current margin settings. Margins have no direct effect on printing other than providing values to reset the current section when a new page is generated or when ResetSection is called. Changing a margin setting will change the same section setting to the same measurement.

See also
TBaseReport Class, MarginBottom, section properties, ResetSection

Example (Delphi)
// This code shows how to set these properties. Also see PrintFooter
```
MarginLeft := 0.5;
```

Example (C++Builder)
```
rp1->MarginLeft := 0.5;
```

6.97 MarginMethod

Declaration
```
property MarginMethod: TMarginMethod;
```

Default
mmFixed

Category
Preview

Description
This property returns or sets the method used to draw the blank margin around the preview page. The setting *mmFixed* will keep the border the same size no matter what the value of *ZoomFactor*. The setting *mmScaled* will grow and shrink the border so that it maintains the same ratio as the rest of the page.

See also
TRvRenderPreview Class, MarginPercent

Example (Delphi)
```
RvRenderPreview1.MarginMethod := mmScaled;
```

Example (C++Builder)
```
RvRenderPreview1->MarginMethod = mmScaled;
```

6.98 MarginPercent

Declaration
```
property MarginPercent: double;
```

Default
0.0

Category
Preview

Description
This property defines the percent of the page width that will appear as blank space around the preview page. A value of 0.0 would have no border. A value of 2.5 would create a border that is equal to 2.5% of the page width.

See also
TRvRenderPreview Class, MarginMethod

Example (Delphi)
// Set a 1 percent border
```
RvRenderPreview1.MarginPercent := 1.0;
```

Example (C++Builder)
```
RvRenderPreview1->MarginPercent = 1.0;
```

6.99 MarginRight

Declaration

```
property MarginRight: double;
```

Default

0.0

Category

Position

Description

These properties return or set the current margin settings. Margins have no direct effect on printing other than providing values to reset the current section when a new page is generated or when *ResetSection* is called. Changing a margin setting will change the same section setting to the same measurement.

See also

TBaseReport Class, MarginBottom, MarginLeft, MarginTop, section properties, ResetSection

Example (Delphi)

```
MarginRight := 0.5;
```

Example (C++Builder)

```
rp1->MarginRight := 0.5;
```

6.100 MarginTop

Declaration

```
property MarginTop: double;
```

Category

Position

Description

These properties return or set the current margin settings. Margins have no direct effect on printing other than providing values to reset the current section when a new page is generated or when *ResetSection* is called. Changing a margin setting will change the same section setting to the same measurement.

See also

TBaseReport Class, MarginBottom, MarginLeft, MarginRight, section properties, ResetSection

Example (Delphi)

```
MarginTop := 0.5;
```

Example (C++Builder)

```
rp1->MarginTop := 0.5;
```

6.101 MaxCopies

Declaration

```
property MaxCopies: longint;
```

Default

(maximum number of copies supported by the default printer)

Category

Printer

Description

This property returns the maximum number of copies supported by the current printer.

See also
TBaseReport Class, Copies

Example (Delphi)
```
if MaxCopies = 1 then begin
  Copies := 1;
end; { if }
```

Example (C++Builder)
```
if (rp1->MaxCopies == 1) {
    rp1->Copies = 1;
  }/ if
```

6.102 MaxSize

Declaration
```
property MaxSize: longint;
```

Default
0

Category
Memo

Description
This property returns or sets the current size of the memo buffer. This is the size of available space and not the size of valid data (see *Size*). If a new value is assigned to *MaxSize*, the buffer will be adjusted to the smallest multiple of *BufferInc* that is greater than or equal to the desired new size.

See also
TMemoBuf Class, BufferInc, Size

Example (Delphi)
// Allocate at least 1000 characters
```
MemoBuf.MaxSize := 1000;
```

Example (C++Builder)
```
MemoBuf->Memo = 1000;
```

6.103 Memo

Declaration
```
property Memo: TMemo;
```

Category
Memo

Description
This property will assign the contents of a TMemo component to a memo buffer.

See also
TMemoBuf Class, Field, Text, TMemo component in Delphi help

Example (Delphi)
// Copy Memo1 into MemoBuf
```
MemoBuf.  Memo := Memo1;
```

Example (C++Builder)
```
MemoBuf->Memo = Memo1;
```

6.104 MetafileDPI

Declaration
```
property MetafileDPI: Boolean; read FMetafileDPI write FMetafileDPI
```

Default
300

Category
Render PDF

Description
The MetafileDPI property can be used to increase or decrease the dots per inch used when saving the images in the PDF file. The higher the dots per inch the better quality the image will appear to have. The down side to a higher dots per inch is that the file size of the PDF will increase.

See also
TRpRender Class, ImageQuality

6.105 Monochrome

Declaration
```
property Monochrome: Boolean;
```

Default
false

Category
Preview

Description
This property defines whether the preview page is drawn in color or monochrome. A setting of true can drastically save memory, especially if the system is running in 8-bit or 24-bit color. Shadows will be disabled if *Monochrome* is true.

See also
TRvRenderPreview Class, ShadowDepth

Example (Delphi)
```
RvRenderPreview1.Monochrome := true;
```

Example (C++Builder)
```
RvRenderPreview1->Monochrome = true;
```

6.106 NoBufferLine

Declaration
```
property NoBufferLine: Boolean;
```

Default
false

Category
Graphics

Description
By default Rave buffers lines until the end of each page so that it can optimize the output for faster printing. Turn this option off if you need to have lines printed before other objects on a page.

See also
TBaseReport Class, LineTo, MoveTo

Example (Delphi)
// turn off line buffering
```
RvNDRWriter1.NoBufferLine := true;
```

Example (C++Builder)
```
RvNDRWriter1->NoBufferLine = true;
```

6.107 NoCRLF

Declaration
```
property NoCRLF: Boolean;
```

Default
false

Category
Memo

Description
This property will control whether *PrintMemo* finishes with a carriage-return linefeed (if false) or not (if true).

See also
TMemoBuf Class, PrintMemo

Example (Delphi)
// Don't do a NewLine after PrintMemo()
```
MemoBuf.NoCRLF := true;
```

Example (C++Builder)
```
MemoBuf->NoCRLF = true;
```

6.108 NoNewLine

Declaration
```
property NoNewLine: Boolean;
```

Default
false

Category
Memo

Description
Prevents the writing of an extra new line after the memo has been printed.

See also
TMemoBuf Class, PrintMemo

Example (Delphi)
```
MemoBuf.NowNewLine := true;
```

Example (C++Builder)
```
MemoBuf->NowNewLine = true;
```

6.109 NoNTColorFix

Declaration
```
property NoNTColorFix: Boolean;
```

Default
false

Category
Printer

Description
Monochrome printers in Windows NT cannot print colors as shades of gray. Instead, any color other than black is printed as if it was white. Since this behaviour is often not desired when printing text, Rave will convert all text colors, except white, as black if the output is being sent to a monochrome printer on Windows NT. The NoNTColorFix property, if set to true, allows you to disable this color conversion but is generally not needed.

See also
TBaseReport Class, FontColor

Example (Delphi)
// Disable NT color conversion
```
NoNTColorFix := true;
```

Example (C++Builder)
```
NoNTColorFix = true;
```

6.110 NoPrinterPageHeight

Declaration
```
property NoPrinterPageHeight: double;
```

Default
11.0

Category
Printer

Description
These properties define the page width and height for the print preview screen if no printers are defined for the current Windows system.

See also
TBaseReport Class, NoPrinters

Example
See NoPrinters

6.111 NoPrinterPageWidth

Declaration
```
property NoPrinterPageWidth: double;
```

Default
8.5

Category
Printer

Description

These properties define the page width and height for the print preview screen if no printers are defined for the current Windows system.

See also

TBaseReport Class, NoPrinters

Example

See NoPrinters

6.112 OnCompress

Declaration

```
property OnCompress: TCompressEvent;
```

Default

'' empty

Category

Render PDF

Description

This property that can be assigned to an event. The event must be defined if you want to compress the page stream in the PDF file. You will also need to set the Use Compression property to true if you want the page stream compressed.

See also

TRpRender Class, UseCompression

Example (Delphi)

// Typically, the code defined inside the OnCompress event will be something similar to this:

```
with TCompressionStream.Create(clMax, OutStream) do try
  CopyFrom(InStream, InStream.Size);
finally
  Free
end; { with }
```

6.113 Orientation

Declaration

```
property Orientation: TOrientation;
```

Default

poPortrait

Category

Printer

Description

This property will return or set the current page orientation to either *poPortrait* or *poLandscape*. Use *poDefault* to retain the setting defined by *TPrinterSetupDialog*.

See also

TBaseReport Class

Example (Delphi)

```
RvNDRWriter1.Orientation := poLandscape;
```

Example (C++Builder)

```
RvNDRWriter1->Orientation = poLandscape;
```

6.114 OriginX

Declaration

```
property OriginX: double;
```

Default

0.0

Category

Position

Description

These properties return or set the currently defined origin. Origins can be very useful for printing similar items that are at different locations of the page (Example (Delphi) labels).

See also

TBaseReport Class, OriginY

Example (Delphi)

```
RvNDRWriter1.OriginX := 2.0;
```

Example (C++Builder)

```
RvNDRWriter1->OriginX = 2.0;
```

6.115 OriginY

Declaration

```
property OriginY: double;
```

Default

0.0

Category

Position

Description

These properties return or set the currently defined origin. Origins can be very useful for printing similar items that are at different locations of the page (Example (Delphi) labels).

See also

TBaseReport Class, OriginX

Example (Delphi)

```
RvNDRWriter1.OriginY := 2.0;
```

Example (C++Builder)

```
RvNDRWriter1->OriginY = 2.0;
```

6.116 OutputFileName

Declaration

```
property OutputFileName: TFileName;
```

Default

'' (empty)

Category

Printer

Description

Specifies the file name that the report output should be sent to. This is a file with printer commands that can be later printed using a command from the DOS prompt like: "COPY /b TEST.DAT PRN"

See also

TRvSystem Class, OutputName

Example (Delphi)

```
RvSystem1.OutputFileName := 'TEST.DAT';
```

Example (C++Builder)

```
RvSystem1->OutputFileName = "TEST.DAT";
```

6.117 OutputInvalid

Declaration

```
property OutputInvalid: Boolean;
```

Default

true

Category

Control

Description

Returns true if the current report destination is invalid. Will also return true if the report has been aborted or is finished executing. This can occur if the user has selected a page range that does not include the current page or the report has been aborted.

See also

TBaseReport Class, Abort, FirstPage, LastPage, Selection

6.118 OutputName

Declaration

```
property OutputName: string;
```

Default

' ' (empty)

Category

Printer

Description

This property defines an alternate output device for the current printer. The output device can be another port, 'LPT3:', or a file on the disk, 'C:\APP\PRINTER.DMP'. The contents of the file that is created will contain actual printer commands and can be copied to a printer at a later time with a DOS command This can be useful for sending output to printers that are not hooked up to the current computer. To do this create the file, copy it to a computer hooked up to the printer and then use the copy command to send it to the printer port.

See also

TBaseReport Class, Port

Example (Delphi)

```
// COPY PRINTER.DMP LPT1 /B
RvNDRWriter1.OutputName := 'C:\APP\PRINTER.DMP';
```

Example (C++Builder)

```
RvNDRWriter1->OutputName = "C:\APP\PRINTER.DMP";
```

6.119 PageHeight

Declaration

```
property PageHeight: double;
```

Category

Printer

Description

This property returns the height of the currently selected paper size.

See also

TBaseReport Class, PageWidth

Example (Delphi)

// Save current page height

```
CurrPageHeight := RvNDRWriter1.PageHeight;
```

Example (C++Builder)

```
CurrPageHeight = RvNDRWriter1->PageHeight;
```

6.120 PageInc

Declaration

```
property PageInc: integer;
```

Default

```
1
```

Category

Preview

Description

This property will set or return the number of pages that the preview screen will be incremented or decremented by when NextPage or PrevPage is called.

See also

TRvRenderPreview Class, NextPage, PrevPage

Example (Delphi)

```
PageInc := 4;
```

Example (C++Builder)

```
PageInc = 4;
```

6.121 PageInvalid

Declaration

```
property PageInvalid: Boolean;
```

Category

Control

Description

This property will return whether the current page is valid for printing or not. Typically this property will be true if the current page is outside the range for *FirstPage* to *LastPage*.

See also

TBaseReport Class, FirstPage, LastPage

Example (Delphi)
```
if RvNDRWriter1.PageInvalid then begin
  { code to respond to an invalid page }
end; { if }
```

Example (C++Builder)
```
if (RvNDRWriter1.PageInvalid) {
  / code to respond to an invalid page
}/ if
```

6.122 Pages

Declaration
```
property Pages: integer;
```

Category
Preview

Description
This property returns the total number of pages that exist inside the report file for a preview screen.

See also
TRvRenderPreview Class, Macro

Example (Delphi)
```
Edit1.Text := IntToStr(RvRenderPreview1.Pages);
Form1.Invalidate;
```

Example (C++Builder)
```
Edit1->Text = IntToStr(RvRenderPreview1->Pages);
Form1->Invalidate();
```

6.123 PageWidth

Declaration
```
property PageWidth: double;
```

Category
Printer

Description
This property returns the width of the currently selected paper size.

See also
TBaseReport Class, PageHeight

Example (Delphi)
```
// Save current page width
CurrPageWidth := RvNDRWriter1.PageWidth;
```

Example (C++Builder)
```
CurrPageWidth = RvNDRWriter1->PageWidth;
```

6.124 Papers

Declaration
```
property Papers: TStrings;
```

Default
(list of paper sizes supported by the default printer)

Category

Printer

Description

This property will return a TStringList of paper sizes that are supported by the current printer.

See also

TBaseReport Class, SelectPaper, SupportPaper, TStrings

Example (Delphi)

```
ListBox2.Items := RvNDRWriter1.Papers;
```

Example (C++Builder)

```
ListBox2->Items = RvNDRWriter1->Papers;
```

6.125 ParaJustify

Declaration

```
property ParaJustify: TTabJustify;
```

Default

tjNone

Category

RTF

Description

This property allows you to set the justification used for the current paragraph. Usually the justification is set by the first print command on a new paragraph (i.e. PrintCenter would set the paragraph to be center justified). Setting ParaJustify for other output components such as TRvNDRWriter or TRvRenderPrinter will have no effect.

See also

TBaseReport Class, NewPara

Example (Delphi)

```
With Sender as TBaseReport do begin
  ParaJustify := tjCenter;
  Print('This text is centered');
end; {with}
```

Example (C++Builder)

```
rp1->ParaJustify = tjCenter;
rp1->Print("This text is centered");
```

6.126 PIVar

Declaration

```
function PIVar(PIVarName: String): String;
```

Category

Printing

Description

This method allows you to initialize the value of a PIVar (Post Initialize Variable). Any PIVars of the same name that were previously printed will show this value. PIVars will use the value that is set after it is printed. A common use for PIVars is to print a total in a header band that would be initialized later in the footer band. This works even across multiple pages. TRvSystem.SystemOptions.soUseFiler must be true if you are using PIVars in your report.

See also

TBaseReport Class, SetPIVar

Example (Delphi)

```
with Sender as TBaseReport do begin
  Print('SubTotal:' + PIVar('SubTotal'));
  // Other print statements including new pages
  SetPIVar('SubTotal',FormatFloat(SubTotal));
end; {with}
```

Example (C++Builder)

```
rp1->Print("SubTotal:" + PIVar("SubTotal"));
  // Other print statements including new pages
  rp1->SetPIVar("SubTotal",FormatFloat(SubTotal));
```

6.127 Port

Declaration

```
property Port: string;
```

Category

Printer

Description

This property will return the port name for the currently selected printer.

See also

TBaseReport Class, PrinterIndex, OutputName

Example (Delphi)

```
Edit1.Text := RvNDRWriter1.Port;
Form1.Invalidate;
```

Example (C++Builder)

```
Edit1->Text = RvNDRWriter1->Port;
Form1->Invalidate();
```

6.128 Pos

Declaration

```
property Pos: longint;
```

Default

0

Category

Memo

Description

This property will return or set the current position marker for the memo buffer. The first position is at index 0.

See also

TMemoBuf Class, Reset

Example (Delphi)

// Save current memo buffer position
```
CurrMemoPos := MemoBuf1.Pos;
```

Example (C++Builder)

```
CurrMemoPos = MemoBuf1->Pos;
```

6.129 Position

Declaration

```
property Position: double;
```

Category

BarCode

Description

This property sets or returns the positions of the bar code that is used in relation to the state of the BarCodeJustify property. This property along with BarCodeJustify is changed whenever the Left, Right or Center properties are changed.

See also

TRpBarsBase Class, BarCodeJustify, BarTop, Center, Left, Right

Example (Delphi)

// Bar Code will be centered at the SectionLeft + 3.0 point

```
BarCodeJustify := pjCenter;
Position := SectionLeft + 3.0;
```

Example (C++Builder)

```
BarCodeJustify = pjCenter;
Position = SectionLeft + 3.0;
```

6.130 PrintChecksum

Declaration

```
property PrintChecksum: Boolean
```

Default

false

Category

BarCode

Description

This property determines if the readable text includes the checksum character.

NOTE:

It is possible that the checksum character may not be a printable character with some of the bar code types.

See also

TRpBarsBase Class, BarTop, UseChecksum

6.131 PrintEnd

Declaration

```
property PrintEnd: double;
```

Default

0.0

Category

Memo

Description

This property will return or set the rightmost position that the memo field will print in.

See also

TMemoBuf Class, PrintStart

Example (Delphi)

// Leave 1.5 inches for left margin
```
MemoBuf1.PrintEnd := 6.5;
```

Example (C++Builder)
```
MemoBuf1->PrintEnd = 6.5;
```

6.132 PrinterIndex

Declaration
```
property PrinterIndex: integer;
```

Default

-1

Category

Printer

Description

This property will return or set the currently selected printer as defined in the *Printer.Printers* string list. Set *PrinterIndex* to -1 to use the default printer.

See also

TBaseReport Class, SelectPrinter

Example (Delphi)

// Save current printer index
```
CurrIndex := RvNDRWriter1.PrinterIndex;
```

Example (C++Builder)
```
CurrIndex = RvNDRWriter1->PrinterIndex;
```

6.133 Printers

Declaration
```
property Printers: TStrings;
```

Default

(list of printers currently installed on the system)

Category

Printer

Description

This property will return a TStringList of printers that are currently installed on the user's computer.

See also

TBaseReport Class, SelectPrinter, TStrings

Example (Delphi)
```
ComboBox2.Items := Printers;
```

Example (C++Builder)
```
ComboBox2->Items := rp1->Printers;
```

6.134 Printing

Declaration

```
property Printing: Boolean;
```

Category

Control

Description

This property will be set to true after a call to *Execute* has been made and will remain true until the report has finished.

See also

TBaseReport Class, Execute

Example (Delphi)

```
if RvNDRWriter1.Printing then RvNDRWriter1.Abort;
```

Example (C++Builder)

```
if (RvNDRWriter1->Printing) RvNDRWriter1->Abort();
```

6.135 PrintReadable

Declaration

```
property PrintReadable: Boolean;
```

Default

true

Category

BarCode

Description

Set this property to false if you do not want readable text to be printed along with the bar code.

NOTE:

For UPC bar codes, text is always printed.

See also

TRpBarsBase Class, PrintTop, TextJustify

6.136 PrintStart

Declaration

```
property PrintStart: double;
```

Default

0.0

Category

Memo

Description

This property will return or set the leftmost position that the memo buffer will print in.

See also

TMemoBuf Class, PrintEnd

Example (Delphi)
```
// Leave 1.5 inches for right margin
MemoBuf1.PrintStart := 1.5;
```

Example (C++Builder)
```
MemoBuf1->PrintStart = 1.5;
```

6.137 PrintTop

Declaration
```
property PrintTop: Boolean;
```

Default
false

Category
BarCode

Description
Set this property to true if you want the readable text to be printed on top of the bar code. A false value means that the readable text will be printed below the bar code. This property has no effect when printing UPC codes, since the UPC text is always printed at the bottom of the bar code.

See also
TRpBarsBase Class, PrintReadable, TextJustify

Example (Delphi)
```
Code39.PrintTop := True;
Code39.Print;
```

Example (C++Builder)
```
Code39->PrintTop = true;
Code39->Print();
```

6.138 ProjectFile

Declaration
```
property ProjectFile: string;
```

Default
'' (empty)

Category
Rave

Description
This property defines the filename of the report project that will be loaded when the TRvProject component is opened. This parameter should point to a valid .RAV file.

See also
TRvProject Class, Active, Close, Open

6.139 Query

Declaration
```
property Query: TQuery;
```

Category
Rave

Description
Specifies the TQuery component that is connected to the TRvQueryConnection component.

See also
TRvQueryConnection Class

Example (Delphi)
```
CustOrdCXN.Query := CustOrdQuery;
```

Example (C++Builder)
```
CustOrdCXN->Query = CustOrdQuery;
```

6.140 RaveBlobDateTime

Declaration
```
property RaveBlobDateTime: TDateTime;
```

Category
Rave

Description
Returns the date and time that a report project was last loaded into the application form. This is not the date and time of the file that was loaded, but rather the date and time that the loading action was performed. If no report project is loaded, the value will be equal to 0.0.

See also
TRvProject Class, ClearRaveBlob, LoadRaveBlob, SaveRaveBlob

Example (Delphi)
```
Label1.Caption := DateTimeToStr(RvProject1.RaveBlobDateTime);
```

Example (C++Builder)
```
Label1->Caption = DateTimeToStr(RvProject1->RaveBlobDateTime);
```

6.141 ReadableHeight

Declaration
```
property ReadableHeight: double;
```

Category
BarCode

Description
Returns the height that the readable text adds to the bar code.

See also
TRpBarsBase Class, BarHeight, Height

6.142 ReportDateTime

Declaration
```
property ReportDateTime: TDateTime;
```

Default
(Date and time Execute or Start was called)

Category
Printing

Description
This property will set or return the date and time the report was started.

See also
TBaseReport Class, Macro

Example (Delphi)
```
Edit1.Text := DateTimeToStr(ReportDateTime);
```

Example (C++Builder)
```
Edit1->Text = DateTimeToStr(rp1->ReportDateTime);
```

6.143 ReportDesc

Declaration
```
property ReportDesc: string;
```

Category
Rave

Description
A Rave report is defined by 3 items. The name property is the standard type name with no spaces or special characters. The full name is like a short title that can be more descriptive of the reports purpose. The description is more like a memo that would be the complete description about a report that could be displayed in a memobuf area for the user to select. This property will return the description of the currently selected report.

See also
TRvProject Class, ReportFullName, ReportDescToMemo, ReportName, SelectReport

6.144 ReportDest

Declaration
```
property ReportDest: TReportDest;
```

Category
ReportSystem

Description
This property will be set to the actual destination of the report after the setup form has been exited. This can be useful for determining which selection the user has chosen (printer/preview/file) and assign that to other RvSystem components (in the DefaultDest property).

See also
TRvSystem Class, DefaultDest

6.145 ReportFullName

Declaration
```
property ReportFullName: string;
```

Category
Rave

Description
A Rave report is defined by 3 items. The name property is the standard type name with no spaces or special characters. The full name is like a short title that can be more descriptive of the reports purpose. The description is more like a memo that would be the complete description about a report that could be displayed in a memobuf area for the user to select. This property will return the full name of the currently selected report.

See also
TRvProject Class, ReportDesc, ReportName, SelectReport

6.146 ReportName

Declaration

```
property ReportName: string;
```

Category

Rave

Description

A Rave report is defined by 3 items. The name property is the standard type name with no spaces or special characters. The full name is like a short title that can be more descriptive of the reports purpose. The description is more like a memo that would be the complete description about a report that could be displayed in a memobuf area for the user to select. This property will return the name of the currently selected report.

See also

TRvProject Class, ReportDesc, ReportFullName, SelectReport

6.147 RichEdit

Declaration

```
property RichEdit: string
```

Category

Memo

Description

Imports the RTF contents stored in a TRichEdit component into a memo buffer.

NOTE:

This property does not exist in Delphi 1.0.

See also

TMemoBuf Class, RTFLoadFromStream, RTFText

Example (Delphi)

```
MemoBuf1.RichEdit := RichEdit1;
```

Example (C++Builder)

```
MemoBuf1->RichEdit = RichEdit1;
```

6.148 Right

Declaration

```
property Right: double;
```

Category

BarCode

Description

Sets or returns the position for the right edge of the bar code. When a value is assigned to Right, the BarCodeJustify property is set to *pjRight* as well.

See also

TRpBarsBase Class, BarCodeJustify, Center, Left, Position

Example (Delphi)

```
BarCode1.Right := SectionRight;
```

Example (C++Builder)

```
BarCode1->Right = rp1->SectionRight;
```

6.149 RightWaste

Declaration

```
property RightWaste: double;
```

Category

Printer

Description

This property returns the waste area on the right side of the page that the printer cannot print into. It is a good idea to make sure that the report's margins are greater than or equal to its waste areas.

See also

TBaseReport Class, BottomWaste, LeftWaste, MarginRight, TopWaste

Example

See LeftWaste

6.150 RTFField

Declaration

```
property RTFField: TMemoField
```

Category

Memo

Description

Imports a RTF string stored in a TMemoField component into a memo buffer.

See also

TMemoBuf Class, Field, RTFText

6.151 RTFText

Declaration

```
property RTFText: string
```

Category

Memo

Description

Imports an RTF string stored in a text variable into the memo buffer.

See also

TMemoBuf Class, RTFField

6.152 RulerType

Declaration

```
property RulerType: TRulerType;
```

Default

rtNone

Category

Preview

Description

This will create a ruler around the preview screen that can be used to measure items during report development.

rtNone	NO rulers will be visible
rtHorizCm	A ruler in centimeters will be on the top of the page
rtVertCm	A ruler in centimeters will be on the left side of the page
rtBothCm	Rulers in centimeters will be on the top and left side of the page
rtHorizIn	A ruler in inches will be on the top of the page
rtVertIn	A ruler in inches will be on the left side of the page
rtBothIn	Rulers in inches will be on the top and left side of the page

See also

TRvSystem Class, GridHoriz, GridPen, GridVert

6.153 RuntimeVisibility

Declaration

```
property RuntimeVisibility: Boolean;
```

Category

Rave

Description

This property determines the visibility of the data connection to an End User designer.

rtNone	invisible to external programs at runtime
rtDeveloper	visible only to developer version of Rave at runtime
rtEndUser	visible to any version of Rave

NOTE:

If you are NOT distributing the end user report designer and are concerned about the visibility of your data to external application, you should set the *RuntimeVisibility* to *rtNone* before distributing your application.

See also

TRvCustomConnection Class, DevLock property on Rave Components

Example (Delphi)

```
RvCustomConnection1.RuntimeVisibility := rtNone;
```

Example (C++Builder)

```
RvCustomConnection1->RuntimeVisibility = rtNone;
```

6.154 ScaleX

Declaration

```
property ScaleX: double;
```

Default

100

Category

Control

Description

These properties return or set the current scaling percent to apply. A value of 100.0 results in normal size, while 200.0 will double the print size and 50.0 will half the print size. This can be used with OriginX and OriginY to print multiple pages per piece of paper.

See also

TBaseReport Class, OriginX, OriginY, ScaleY

Example (Delphi)
   // Scale to fit 4 pages on one sheet of paper
```
RvNDRWriter1.ScaleX := 50.0;
RvNDRWriter1.ScaleY := 50.0;
```

Example (C++Builder)
```
RvNDRWriter1->ScaleX = 50.0;
RvNDRWriter1->ScaleY = 50.0;
```

6.155 ScaleY

Declaration
```
property ScaleY: double;
```

Default
   100

Category
   Control

Description
   These properties return or set the current scaling percent to apply. A value of 100.0 results in normal size, while 200.0 will double the print size and 50.0 will half the print size. This can be used with OriginX and OriginY to print multiple pages per piece of paper.

See also
   TBaseReport Class, OriginX, OriginY, ScaleX

Example (Delphi)
   // Scale to fit 4 pages on one sheet of paper
```
RvNDRWriter1.ScaleX := 50.0;
RvNDRWriter1.ScaleY := 50.0;
```

Example (C++Builder)
```
RvNDRWriter1->ScaleX = 50.0;
RvNDRWriter1->ScaleY = 50.0;
```

6.156 ScrollBox

Declaration
```
property ScrollBox: TScrollBox;
```

Default
   nil

Category
   Preview

Description
   This property defines the scroll box on the preview form that the report will be drawn in.

See also
   TRvRenderPreview Class

Example (Delphi)
```
RvRenderPreview1.ScrollBox := Form1.ScrollBox1;
```

Example (C++Builder)
```
RvRenderPreview1->ScrollBox = Form1->ScrollBox1;
```

6.157 SectionBottom

Declaration

```
property SectionBottom: double;
```

Default

MarginBottom

Category

Position

Description

These properties return or set the current section of the paper to be printed on. Items that rely upon the current section settings are line starting points (Example (Delphi) after a CR call), setting columns, LinesLeft and ColumnLinesLeft. The section settings are reset to the margin values after each new page is generated. Changing a margin setting will change its corresponding section setting to the same measurement.

NOTE:

Section settings are different from margin setting in that the section values are always measurements from the upper or left side of the page while margins are measurements from the closest side of the page. (Example (Delphi) SectionRight := 8.0 would be the same as MarginRight := 0.5 for 8.5 inch wide paper.)

See also

TBaseReport Class, Margin properties, ResetSection, SectionLeft, SectionRight, SectionTop

Example (Delphi)

```
with RvNDRWriter1 do begin
  SectionLeft := 1.0;
  SectionRight := 7.5;
  SectionTop := 1.5;
  SectionBottom := 1.0;
end; { with }
```

Example (C++Builder)

```
rp1->SectionLeft = 1.0;
rp1->SectionRight = 7.5;
rp1->SectionTop = 1.5;
rp1->SectionBottom = 1.0;
```

6.158 SectionLeft

Declaration

```
property SectionLeft: double;
```

Default

MarginLeft

Category

Position

Description

These properties return or set the current section of the paper to be printed on. Items that rely upon the current section settings are line starting points (Example (Delphi) after a CR call), setting columns, LinesLeft and ColumnLinesLeft. The section settings are reset to the margin values after each new page is generated. Changing a margin setting will change its corresponding section setting to the same measurement.

NOTE:

Section settings are different from margin setting in that the section values are always measurements from the upper or left side of the page while margins are measurements from the closest side of the page. (Example (Delphi) SectionRight := 8.0 would be the same as MarginRight := 0.5 for 8.5 inch wide paper.)

See also

TBaseReport Class, Margin properties, ResetSection, SectionBottom, SectionRight, SectionTop

Example

see SectionBottom

6.159 SectionRight

Declaration

```
property SectionRight: double;
```

Default

MarginRight

Category

Position

Description

These properties return or set the current section of the paper to be printed on. Items that rely upon the current section settings are line starting points (Example (Delphi) after a CR call), setting columns, LinesLeft and ColumnLinesLeft. The section settings are reset to the margin values after each new page is generated. Changing a margin setting will change its corresponding section setting to the same measurement.

NOTE:

Section settings are different from margin setting in that the section values are always measurements from the upper or left side of the page while margins are measurements from the closest side of the page. (Example (Delphi) SectionRight := 8.0 would be the same as MarginRight := 0.5 for 8.5 inch wide paper.)

See also

TBaseReport Class, Margin properties, ResetSection, SectionBottom, SectionLeft, SectionTop

Example

see SectionBottom

6.160 SectionTop

Declaration

```
property SectionTop: double;
```

Default

MarginTop

Category

Position

Description

These properties return or set the current section of the paper to be printed on. Items that rely upon the current section settings are line starting points (Example (Delphi) after a CR call), setting columns, LinesLeft and ColumnLinesLeft. The section settings are reset to the margin values after each new page is generated. Changing a margin setting will change its corresponding section setting to the same measurement.

NOTE:

Section settings are different from margin setting in that the section values are always measurements from the upper or left side of the page while margins are measurements from the closest side of the page. (Example (Delphi) SectionRight := 8.0 would be the same as MarginRight := 0.5 for 8.5 inch wide paper.)

See also

TBaseReport Class, Margin properties, ResetSection, SectionBottom, SectionLeft, SectionRight

Example

see SectionBottom

6.161 Selection

Declaration

```
property Selection: string;
```

Default

' ' (empty)

Category

Control

Description

This property will override FirstPage and LastPage if not blank. Selection defines the valid pages in a print job and can contain separate page ranges, separated by commas or with ranges defined as First-Last. You also are allowed to select even, odd or reverse order page output by including one of the following.

"e" or "even" pages
"o" or "odd" pages
"r" "reverse order" pages
"a" or "all"

See also

TBaseReport Class, FirstPage, LastPage, SystemOptions

Example (Delphi)

```
Selection := '1-11';       {Print pages 1 through 11}
Selection := '5-8,25';           {Print pages 5 through 8 and page 25}
Selection := '1,3,6-';           {Print pages 1,3 and 6 to end of job}
Selection := '1,e,9-11';   {Print all even pages and page 1, 9 through 11}
Selection := 'o';          {Print all odd pages}
```

Example (C++Builder)

```
Selection = "1-11";        / Print pages 1 through 11
Selection = "5-8,25";            / Print pages 5 through 8 and page 25
Selection = "1,3,6-";            / Print pages 1,3 and 6 to end of job
Selection = "1,e,9-11";          / Print all even pages and page 1, 9 through
11
Selection := "o";          / Print all odd pages
```

6.162 ServerMode

Declaration

```
property ServerMode: Boolean read FServerMode write FServerMode
```

Default

false

Category

Render

Description

This property specifies whether the HTML is being generated dynamically from the report server or is being run locally. This affects things like whether the image files will be given a .tmp file type, which is the case for servermode, or whether they are given the .jpg file type needed when running locally, which enables the browser to deter the file type and display the image correctly.

See also

TRpRender Class, CacheDir

6.163 ShadowDepth

Declaration

```
property ShadowDepth: integer;
```

Default

0

Category

Preview

Description

This property will define the shadow depth of the preview page in pixels.

NOTE:

Shadows will not be drawn while the Monochrome property is true.

See also

TBaseReport Class, Monochrome

Example (Delphi)

```
ShadowDepth := 5;
```

Example (C++Builder)

```
ShadowDepth = 5;
```

6.164 Size

Declaration

```
property Size: longint;
```

Category

Memo

Description

This property will return the current size of the text in the memo buffer in bytes.

See also

TMemoBuf Class, MaxSize, Pos

Example (Delphi)

```
MemoBytes := MemoBuf1.Size;
```

Example (C++Builder)

```
MemoBytes = MemoBuf1->Size;
```

6.165 StatusFormat

Declaration

```
property StatusFormat: string;
```

Default

'Printing page '

Category

Misc

Description

This property defines the format for the text printed to StatusLabel during an UpdateStatus call. There are several special formatting character pairs that can be used within the string:

%c	current printing pass
%p	Current Page
%f	First Page
%l	Last Page
%d	Printer Device Name
%n	force a carriage return
%r	Printer Driver Name
%s	Total number of passes
%t	Printer Port
%0 through %9	Status Text Line (see StatusText)
%%	% character

See also

TBaseReport Class, CurrentPass, StatusLabel, StatusText, TotalPasses, UpdateStatus

Example (Delphi)

```
RvNDRWriter1.StatusFormat := 'Generating page ';
RvNDRWriter1.StatusFormat := 'Printing page  (Pass  of )';
```

Example (C++Builder)

```
RvNDRWriter1->StatusFormat = "Generating page ";
RvNDRWriter1->StatusFormat = "Printing page  (Pass  of )";
```

6.166 StatusLabel

Declaration

```
property StatusLabel: TLabel;
```

Default

nil

Category

Misc

Description

This property defines the TLabel component that UpdateStatus will put the status text, StatusFormat, into.

See also

TBaseReport Class, StatusFormat, StatusText, UpdateStatus

Example (Delphi)

```
RvNDRWriter1.StatusLabel := StatusForm.Label1;
```

Example (C++Builder)

```
RvNDRWriter1->StatusLabel = StatusForm->Label1;
```

6.167 StatusText

Declaration

```
property StatusText: TStrings;
```

Default
(empty)

Category
Misc

Description
This property defines a string list of at most 10 strings that can replace the special formatting characters (%0 to %9) in StatusFormat.

See also
TBaseReport Class, StatusFormat, TStrings

Example (Delphi)
```
StatusText[1] := 'Inform user of report status';
UpdateStatus;
```

Example (C++Builder)
```
rp1->StatusText->Strings[1] = "Inform user of report status";
rp1->UpdateStatus();
```

6.168 StoreRAV

Declaration
```
property StoreRAV: Boolean;
```

Default
false

Category
Rave

Description
This property will return whether a report project (RAV file) is stored in the executable or not. At design-time, editing this property will bring up a dialog allowing you to load, save or remove a report project from your application. The date and time that a report project was last loaded into is displayed in the Object Inspector.

NOTE:
This is not the date and time of the file on disk, but the date and time that the load action was performed. A warning will be displayed if a file, defined by ProjectFile, exists that is of a later date and time and you will be prompted to use the version on the disk instead.

See also
TRvProject Class, ClearRaveBlob, LoadRaveBlob, ProjectFile, RaveBlobDateTime, SaveRaveBlob

6.169 Stream

Declaration
```
property Stream: TStream;
```

Default
nil

Category
Control

Description
This property returns or sets the stream used to either write to or read from the report file. A user created stream can be assigned when StreamMode is equal to smUser but otherwise this property should not be modified.

See also

TBaseReport Class, FileName, StreamMode

Example (Delphi)

```
var   ReportStream: TMemoryStream;
begin
  ReportStream := TMemoryStream.Create;
  try
    with RvNDRWriter1 do begin
      StreamMode := smUser;
      Stream     := ReportStream;
      Execute;
    end; { with }
  finally
    ReportStream.Free;
  end; { tryf }
end;
```

Example (C++Builder)

```
TMemoryStream* ReportStream = new TMemoryStream();
try {
  rp1->StreamMode = smUser;
  rp1->Stream = ReportStream;
  rp1->Execute();
}
__finally {
  delete ReportStream;
}/ tryf
```

6.170 StreamMode

Declaration

```
property StreamMode: TStreamMode;
```

Default

smMemory

Category

Control

Description

This property defines how the stream for the report file is maintained.

smFile	This setting uses a TFileStream to store the report file and is very good for large reports, but may run a little slower.
smTempFile	This will send the output to a temporary file in the \Windows\Temp directory. This filename used by smTempFile is created by the system and will be deleted when you exit the reporting system.
smMemory	This setting uses a TMemoryStream and is good for small reports to run faster, but do not use this option for reports that may be large.
smUser	This does not create a stream, but uses the stream that has been assigned to the Stream property before the report was started. The programmer is responsible for creating and freeing the stream if smUser is used.

See also

TBaseReport Class, FileName, Stream

Example (Delphi)

```
RvNDRWriter1.StreamMode := smMemory;
RvNDRWriter2.FileName   := 'TEMP.RpT';
RvNDRWriter2.StreamMode := smFile;
```

Example (C++Builder)
```
RvNDRWriter1->StreamMode = smMemory;
RvNDRWriter2->FileName   = "TEMP.RPT";
RvNDRWriter2->StreamMode = smFile;
```

6.171 Strikeout

Declaration
```
property Strikeout: Boolean;
```

Default
false

Category
Font

Description
This property returns or sets the strikeout attribute for the current font.

See also
TBaseReport Class, Bold, Italic, Underline

Example (Delphi)
```
with RvNDRWriter1 do begin
  Strikeout := true;
  Print( 'Deleted Text' );
  Strikeout := false;
end; { with }
```

Example (C++Builder)
```
rp1->Strikeout = true;
rp1->Print( "Deleted Text" );
rp1->Strikeout = false;
```

6.172 Subscript

Declaration
```
property Subscript: Boolean;
```

Default
false

Category
Font

Description
Returns or sets the subscript setting for the current text font.

See also
TBaseReport Class, Superscript

Example (Delphi)
```
// Print a formula
Print('Y = Pi * X');
Subscript := true;
Print('a');
Subscript := false;
```

Example (C++Builder)
```
rp1->Print("Y = Pi * X");
rp1->Subscript = true;
rp1->Print("a");
rp1->Subscript = false;
```

6.173 Superscript

Declaration
```
property Superscript: Boolean;
```

Default
false

Category
Font

Description
Returns or sets the superscript setting for the current text font.

See also
TBaseReport Class, Subscript

Example (Delphi)
// Print a formula
```
Print('E = MC');
Superscript := true;
Print('2');
Superscript := false;
```

Example (C++Builder)
```
rp1->Print("E = MC");
rp1->Superscript = true;
rp1->Print("2");
rp1->Superscript = false;
```

6.174 SystemFiler

Declaration
```
property SystemFiler: TSystemFiler;
```

Category
ReportSystem

Description
All SystemFiler options operate in the same manner as the other components except for the stream mode of smMemory which does not require a filename and will use a TMemoryStream to contain a report.

See also
TRvSystem Class, Other System options

Example (Delphi)
```
RvSystem1.SystemFiler.AccuracyMethod := amAppearance;
```

Example (C++Builder)
```
RvSystem1->SystemFiler->AccuracyMethod = amAppearance;
```

6.175 SystemOptions

Declaration
```
property SystemOptions: TSystemOptions;
```

Category

ReportSystem

Description

The SystemOptions properties control the configuration of the TRvSystem component:

soUseFiler	will always send the report to a report file. This can be very useful if the Macro method has been used in the report
soWaitForOK	determines whether the user has to press the OK button once the report has been generated for output
soShowStatus	determines whether or not the status screen is displayed when the report is being generated
soAllowPrintFromPreview	determines whether the user can print from the preview screen
soAllowSaveFromPreview	determines whether the user can save from the preview screen
soPreviewModal	determines if the preview screen will be modal
soNoGenerate	will cause the RvSystem component to skip over the generation phase of the report and proceed straight to screen or the printer. This option should only be used with a StreamMode of smFile where the report file has been previously generated and needs only to be viewed or printed

See also

TRvSystem Class, Other SystemXxxx options

Example (Delphi)

// Disable the status screen
```
RvSystem1.SystemOptions := RvSystem1.SystemOptions - (soShowStatus];
```

Example (C++Builder)
```
RvSystem1->SystemOptions = RvSystem1->SystemOptions >> soShowStatus;
```

6.176 SystemPreview

Declaration
```
property SystemPreview: TSystemPreview;
```

Category

ReportSystem

Description

SystemPreview displays all the preview type options displayed in TRvRenderPreview. Following are the additional properties:

FormHeight	defines the height of the RvSystem report preview form
FormState	defines the initial window status (normal, minimized or maximized) of the RvSystem report preview form
FormWidth	defines the width of the RvSystem report preview form

See also

TRvSystem Class, Other SystemXxxx options

Example (Delphi)
```
RvSystem1.SystemPreview.FormState := wsMaximized;
```

Example (C++Builder)
```
RvSystem1->SystemPreview->FormState = wsMaximized;
```

6.177 SystemPrinter

Declaration
```
property SystemPrinter: TSystemPrinter;
```

Category
ReportSystem

Description
SystemPrinter displays all the printer type options displayed in TRvRenderPrinter.

See also
TRvSystem Class, Other SystemXxxx options

Example (Delphi)
```
RvSystem1.SystemPrinter.MarginLeft := 0.5;
```

Example (C++Builder)
```
RvSystem1->SystemPrinter->MarginLeft = 0.5;
```

6.178 SystemSetups

Declaration
```
property SystemSetups: TSystemSetups;
```

Default
[ssAllowSetup, ssAllowCopies, ssAllowCollate, ssAllowDuplex, ssAllowDestPreview, ssAllowDestPrinter, ssAllowDestFile, ssAllowPrinterSetup]

Category
ReportSystem

Description
This property contains settings that define the behavior of the Printer Setup Dialog that TRvSystem uses. To see a description of each option see TSystemSetup.

See also
TRvSystem Class, TSystemSetup

Example (Delphi)
```
// Disable the setup screen
RvSystem1.SystemSetups :=  RvSystem1.SystemSetups - [ssAllowSetup];
```

Example (C++Builder)
```
RvSystem1->SystemSetups =  RvSystem1->SystemSetups >> ssAllowSetup;
```

6.179 TabColor

Declaration
```
property TabColor: TColor;
```

Default
clBlack

Category
Tabs

Description
This property defines the color that will be used to shade tab boxes created with SetTab. TabShade will define what percentage of TabColor is used.

See also
TBaseReport Class, SetTab, TabShade, TColor

6.180 TabJustify

Declaration
```
property TabJustify: TTabJustify;
```

Default
tjNone

Category
Tabs

Description
This property will override any tab justification that was defined with SetTab(). This can be useful for column headings that are normally centered while the remaining data is justified according to the type of data. *tjNone* will disable this feature while *tjLeft, tjCenter, tjRight* and *tjBlock* will set the justification respectively.

See also
TBaseReport Class

Example (Delphi)
```
TabJustify := tjCenter;
PrintLn(#9'Name'#9'Number');
TabJustify := tjNone;
```

Example (C++Builder)
```
rp1->TabJustify = tjCenter;
rp1->PrintLn("\tName\tNumber");
rp1->TabJustify = tjNone;
```

6.181 Table

Declaration
```
property Table(MyPrinter: Trave);
```

Default
nil

Category
Rave

Description
Specifies the TTable component that is connected to the TRvTableConnection component.

See also
TRvTableConnection Class

Example (Delphi)
```
CustomerCXN.Table := CustomerQuery;
```

Example (C++Builder)
```
CustomerCXN->Table = CustomerQuery;
```

6.182 TabShade

Declaration
```
property TabShade: integer;
```

Default

0

Category

Tabs

Description

This property defines a default tab shading that will override the tab shading defined with SetTab but not override the setting of the ShadeOverride parameter of the Tab method. TabShade can be useful for printing barred rows of alternating shades by setting TabShade before each line is printed.

See also

TBaseReport Class, SetTab, Tab

Example (Delphi)

// alternate tab shading by even / odd line status

```
if Odd(LineNum) then begin
  TabShade :=  0;
end else begin
  TabShade := 15;
end; { else }
```

Example (C++Builder)

```
if ((rp1->LineNum 2) == 1) {
  TabShade =  0;
}
else {
  TabShade = 15;
}/ else
```

6.183 Text (TMemoBuf)

Declaration

```
property Text: string;
```

Default

'' (empty)

Category

Memo

Description

This property will set the memo buffer to a string assigned to it. If this property is referenced, the first 255 characters (unless Delphi 2.0 is being used) of the memo buffer (or the size of the memo buffer, whichever is less) will be returned.

See also

TMemoBuf Class, SetData

Example (Delphi)

```
MemoBuf1.Text := 'New text assigned into MemoBuf1';
```

Example (C++Builder)

```
MemoBuf1->Text = "New text assigned into MemoBuf1";
```

6.184 Text (TRpBarsBase)

Declaration

```
property Text: string;
```

Category

BarCode

Description

The text to be printed as a bar code.

NOTE:

Do not include the check character. The check character will be automatically calculated and printed according to the state of the UseChecksum property.

NOTE:

Any characters that are invalid for the bar code type will be deleted from the text property upon assignment.

See also

TRpBarsBase Class, Print, PrintXY, TextJustify, UseChecksum

Example (Delphi)

// example of -- since "-" is not valid it will be stripped out
```
PostNetBC1.Text := '85283-3558';
```

Example (C++Builder)
```
PostNetBC1->Text = "85283-3558";
```

6.185 TextBKMode

Declaration
```
property TextBKMode: TBKMode;
```

Default

bkTransparent

Category

Graphics

Description

This property will define the current text background mode as either *bkTransparent*, where text will print on top of graphics without erasing the background, or as *bkOpaque*, where text will print on top of graphics after the background is cleared.

NOTE:

Not all printer drivers support opaque text, especially PCL5 laserjet drivers. For these printers try setting graphics mode to Raster instead of HP/GL2 inside the printer setup window and opaque text printing may work.

See also

TBaseReport Class, BKColor

Example (Delphi)
```
RvNDRWriter1.TextBKMode := bkOpaque;
```

Example (C++Builder)
```
RvNDRWriter1->TextBKMode = bkOpaque;
```

6.186 TextJustify

Declaration
```
property TextJustify: TPrintJustify
```

Default
pjCenter

Category
BarCode

Description
Determines how the readable text is justified in relation to the bar code.

pjLeft	Left justify the text portion
pjCenter	Center justify the text portion
pjRight	Right justify the text portion

See also
TRpBarsBase Class, PrintReadable, PrintTop, Text

6.187 Title

Declaration
```
property Title: string;
```

Default
'Rave Report'

Category
Misc

Description
This property defines the title for the current print job that will be displayed in the Windows Print Manager. (16 bit is limited to 31 characters).

See also
TBaseReport Class

Example (Delphi)
// This code causes the text "Sales Report" to show as the print job name in the print manager.
```
RvNDRWriter1.Title := 'Sales Report';
```

Example (C++Builder)
```
RvNDRWriter1->Title = "Sales Report";
```

6.188 TitlePreview

Declaration
```
property TitlePreview: TFormatString;
```

Default
'Report Preview'

Category
ReportSystem

Description
This property defines the caption that will be used for the RvSystem report preview form.

See also
TRvSystem Class, TitleSetup, TitleStatus

6.189 TitleSetup

Declaration
```
property TitleSetup: TFormatString;
```

Default
'Report Setup'

Category
ReportSystem

Description
This property defines the caption that will be used for the RvSystem report setup form.

See also
TRvSystem Class, TitlePreview, TitleStatus

6.190 TitleStatus

Declaration
```
property TitleStatus: TFormatString;
```

Default
'Report Status'

Category
ReportSystem

Description
This property defines the caption that will be used for the RvSystem report status form.

See also
TRvSystem Class, TitlePreview, TitleSetup

6.191 Top

Declaration
```
property Top: double;
```

Category
BarCode

Description
Sets or returns the position for the top edge of the bar code. The value for this property includes the readable text, if it is printed.

See also
TRpBarsBase Class, BarTop, PrintReadable, PrintTop

Example (Delphi)
// Print the bar code so the top is 3.5 inches down
```
BarCode1.Top := 3.5;
```

Example (C++Builder)
```
BarCode1->Top = 3.5;
```

6.192 TopWaste

Declaration
```
property TopWaste: double;
```

Category
Printer

Description

This property returns the waste area on the top side of the page that the printer cannot print into. It is a good idea to make sure that the report's margins are greater than or equal to its waste areas.

See also

TBaseReport Class, BottomWaste, LeftWaste, MarginTop, RightWaste

Example

See LeftWaste

6.193 TotalPasses

Declaration

```
property TotalPasses: Integer;
```

Category

Misc

Description

This is the value that will be returned when a %s is encountered in a StatusFormat string.

See also

TBaseReport Class, CurrentPass, StatusFormat, StatusLabel, StatusText, UpdateStatus

Example (Delphi)

```
RvNDRWriter1.StatusFormat := 'Printing page (Pass of )';
```

Example (C++Builder)

```
RvNDRWriter1->StatusFormat = "Printing page (Pass of )";
```

6.194 TransparentBitmaps

Declaration

```
property TransparentBitmaps: Boolean;
```

Default

false

Category

Graphics

Description

This property will control the mode that *PrintBitmap* and *PrintBitmapRect* use to draw bitmaps. A value of true will cause bitmaps to be combined (using the AND operator) with the current page contents while a value of false will replace the page contents with the bitmap.

See also

TBaseReport Class, PrintBitmap, PrintBitmapRect

Example (Delphi)

```
TransparentBitmaps := true;
```

Example (C++Builder)

```
TransparentBitmaps = true;
```

6.195 TruncateText

Declaration

```
function TruncateText(Value: String; Width: Double): String;
```

Category
Printing

Description
This property calculates the width of the string "Value" using the current font. If the text is wider than the Width parameter then it will be truncated by characters to fit.

See also
TBaseReport Class, PrintTab, SetFont

Example (Delphi)
```
RvNDRWriter1.SetFont( 'Arial', 14 );
TruncateText('This text is too long to fit within 2 inches', 2.0);
```

Example (C++Builder)
```
RvNDRWriter1->SetFont( "Arial", 14 );
TruncateText("This text is too long to fit within 2 inches", 2.0);
```

6.196 Underline

Declaration
```
property Underline: Boolean;
```

Default
false

Category
Font

Description
This property returns or sets the underline attribute for the current font.

See also
TBaseReport Class, Bold, Italic, Strikeout

Example (Delphi)
```
with RvNDRWriter1 do begin
  Underline := true;
  Print( 'Underlined text' );
  Underline := false;
end; { with }
```

Example (C++Builder)
```
rp1->Underline = true;
rp1->Print( "Underlined text" );
rp1->Underline = false;
```

6.197 Units

Declaration
```
property Units: TPrintUnits;
```

Default
unInch

Category
Units

Description
This property sets the current units mode to one of the following values: *unInch, unMM, unCM, unPoint* and *unUser*. If the setting is *unUser* then the units factor is determined by the value in *UnitsFactor*.

See also
TBaseReport Class, UnitsFactor

Example (Delphi)
```
RvNDRWriter1.Units := unInch;
```

Example (C++Builder)
```
RvNDRWriter1->Units = unInch;
```

6.198 UnitsFactor

Declaration
```
property UnitsFactor: double;
```

Default
1.0

Category
Units

Description
This property returns or sets the current conversion factor necessary to convert units to inches. Its value should equal the number of units that equal an inch. (*unCM* = 2.54 since 2.54 centimeters equal an inch)

See also
TBaseReport Class

Example (Delphi)
```
// 300 DPI conversion
RvNDRWriter1.Units := unUser;
RvNDRWriter1.UnitsFactor := 300;
RvNDRWriter1.PrintXY( 300, 600, 'Text at 1", 2"' );
```

Example (C++Builder)
```
RvNDRWriterr1->Units = unUser;
RvNDRWriter1->UnitsFactor = 300;
RvNDRWriter1->PrintXY( 300, 600, "Text at 1\", 2\"" );
```

6.199 UseBreakingSpaces

Declaration
```
property UseBreakingSpaces: Boolean read FUseBreakingSpaces write
FUseBreakingSpaces
```

Default
false

Category
Render

Description
This property specifies whether the HTML output will allow text spaces to be written out as plain text or with &nbsp;

See also
TRpRender Class

6.200 UseChecksum

Declaration
```
property UseChecksum: Boolean
```

Default
false (Code128 := true)

Category
BarCode

Description
Specifies whether a checksum character should be included in the bar code.

See also
TRpBarsBase Class, BarHeight, BarWidth, PrintReadable, Text, Width

6.201 UseCompression

Declaration
```
property UseCompression: Boolean read FCompression write FCompression
```

Default
false

Category
Render PDF

Description
This property determines whether you want to compress the page stream when sending the report out to PDF. The code that actually provides the compression must be defined in the OnCompress event.

See also
TRpRender Class, OnCompress

6.202 UseSetRange

Declaration
```
property UseSetRange: Boolean;
```

Default
false

Category
Rave

Description
This property will determine whether filters are handled by the TTable.Filter property or the TTable.SetRange method.

See also
TRvTableConnection Class

6.203 Version

Declaration
```
property Version: String;
```

Category
Misc

Description
Returns the current release version of Rave.

See also
TRpComponent Class

6.204 WideFactor

Declaration

```
property WideFactor: double
```

Default

3.0

Category

BarCode

Description

The wide factor is the ratio of the wide bar to the narrow bar width.

See also

TRpBarsBase Class, BarHeight, BarWidth, Width

Example (Delphi)

// set wide to narrow bar ratio to be 2.5

```
WideFactor := 2.5;
```

Example (C++Builder)

```
WideFactor = 2.5;
```

6.205 Width

Declaration

```
property Width: double;
```

Category

BarCode

Description

This property will return the calculated width of the entire bar code for the current value of Text.

See also

TRpBarsBase Class, BarWidth, Text, WideFactor

Example (Delphi)

// get width of bar code for ABC123

```
var BarCodeWidth: double;
  BarCode1.Text := 'ABC123';
  BarCodeWidth := BarCode1.Width;
```

Example (C++Builder)

```
double BarCodeWidth;
BarCode1->Text = "ABC123";
BarCodeWidth = BarCode1->Width;
```

6.206 XDPI

Declaration

```
property XDPI: integer;
```

Category

Printer

Description

This property returns the horizontal dots per inch for the current printer.

See also
TBaseReport Class

Example (Delphi)
```
CurrXDPI := RvNDRWriter1.XDPI;
```

Example (C++Builder)
```
CurrXDPI = RvNDRWriter1->XDPI;
```

6.207 XPos

Declaration
```
property XPos: double;
```

Default
0.0

Category
Position

Description
This property sets or returns the horizontal text cursor position.

See also
TBaseReport Class, CursorXPos, CursorYPos, YPos

Example (Delphi)
```
XPos := 0.45;
YPos := 0.95;
Print('Text at ( 0.45, 0.95 )');
```

Example (C++Builder)
```
rp1->XPos = 0.45;
rp1->YPos = 0.95;
rp1->Print("Text at ( 0.45, 0.95 )");
```

6.208 YDPI

Declaration
```
property YDPI: integer;
```

Category
Printer

Description
This property returns the vertical dots per inch for the current printer.

See also
TBaseReport Class, All other units conversion functions

Example (Delphi)
```
CurrYDPI := RvNDRWriter1.YDPI;
```

Example (C++Builder)
```
CurrYDPI = RvNDRWriter1->YDPI;
```

6.209 YPos

Declaration
```
property YPos: double;
```

Default
0.0

Category
Position

Description
This property sets or returns the vertical text cursor position.

See also
TBaseReport Class, CursorXPos, CursorYPos, XPos

Example (Delphi)
```
XPos := 0.45;
YPos := 0.95;
Print('Text at ( 0.45, 0.95 )');
```

Example (C++Builder)
```
rp1->XPos = 0.45;
rp1->YPos = 0.95;
rp1->Print("Text at ( 0.45, 0.95 )");
```

6.210 ZoomFactor

Declaration
```
property ZoomFactor: double;
```

Default
100.0

Category
Preview

Description
This property defines the current zoom percent. A value of 100.0 is normal size, 200.0 is double normal size and 50.0 is half size.

See also
TRvRenderPreview Class, ZoomIn, ZoomOut

Example
This code updates the text in a field where the ZoomFactor can be edited by the user. It would be important to keep these well synchronized if more than one event can change this property.

Example (Delphi)
```
var   S1: string[10];
begin
  Str(RvRenderPreview1.ZoomFactor:1:1,S1);
  ZoomEdit.Text := S1;
  RvRenderPreview1.RedrawPage;
end;
```

Example (C++Builder)
```
AnsiString S1;
  S1 = FloatToStrF(RvRenderPreview1->ZoomFactor, ffGeneral,1,1);
  ZoomEdit->Text = S1;
  RvRenderPreview1->RedrawPage();
```

6.211 ZoomInc

Declaration

```
property ZoomInc: integer;
```

Default

10

Category

Preview

Description

This property defines the amount that *ZoomIn* and *ZoomOut* modifies *ZoomFactor*.

See also

TRvRenderPreview Class, ZoomFactor, ZoomIn, ZoomOut

Example (Delphi)

// This code causes the *ZoomFactor* property to be incremented by 10when *ZoomIn* and *ZoomOut* are called.

```
RvRenderPreview1.ZoomInc := 10;
```

Example (C++Builder)

```
RvRenderPreview1->ZoomInc = 10;
```

6.212 ZoomPageFactor

Declaration

```
property ZoomPageFactor: double;
```

Category

Preview

Description

This property will return the zoom factor that will zoom the current page so that the entire page is visible. This value can then be assigned to *ZoomFactor*. You should consider the extra width used by a shadow if you have assigned a value to the *ShadowDepth* preview property.

See also

TRvRenderPreview Class, ShadowDepth, ZoomFactor, ZoomPageWidthFactor

Example (Delphi)

// use an *OnPreviewShow* event with the following

```
with Sender As TRvRenderPreview do begin
  ZoomFactor := ZoomPageFactor - (ShadowDepth + 5) / 10;
end; { with }
```

Example (C++Builder)

```
TRvRenderPreview* fp = dynamic_cast<TRvRenderPreview*>(Sender);
  fp->ZoomFactor = fp->ZoomPageFactor - (fp->ShadowDepth + 5) / 10;
```

6.213 ZoomPageWidthFactor

Declaration

```
property ZoomPageWidthFactor: double;
```

Category

Preview

Description

This property will return the zoom factor that will zoom the current page so that the entire page width is visible. This value can then be assigned to *ZoomFactor*. You should consider the extra width used by a shadow if you have assigned a value to the *ShadowDepth* preview property.

See also

TRvRenderPreview Class, ShadowDepth, ZoomFactor, ZoomPageFactor

Example (Delphi)

// use an *OnPreviewShow* event with the following

```
with Sender As TRvRenderPreview do begin
  ZoomFactor := ZoomPageWidthFactor - (ShadowDepth +3) / 10;
end; { with }
```

Example (C++Builder)

```
TRvRenderPreview* fp = dynamic_cast<TRvRenderPreview*>(Sender);
  fp->ZoomFactor = fp->ZoomPageWidthFactor - (fp->ShadowDepth + 3) / 10;
```

Types

Chapter VII

7 Types

Typed constants, unlike true constants, can hold values of array, record, procedural, and pointer types. Typed constants cannot occur in constant expressions.

7.1 TAccuracyMethod

Declaration

```
TAccuracyMethod = (amPositioning, amAppearance);
```

Category

Control

Description

amPositioning	This setting will cause the string to be written one character at a time
amAppearance	This setting will cause the whole string to be written at one time

See also

TBaseReport Class, *AccuracyMethod*

Example

see *AccuracyMethod*

7.2 TBKMode

Declaration

```
TBKMode = (bkTransparent, bkOpaque);
```

Category

Graphics

Description

bkTransparent	This setting will write the text without erasing the background
bkOpaque	This setting will write the text after the background has been cleared

See also

TBaseReport Class, *TextBKMode*

Example

See *TextBKMode*

7.3 TFontAlign

Declaration

```
TFontAlign = (faBaseline, faTop, faBottom);
```

Category

Font

Description

faBaseline	This setting will align the font at the baseline of the font
faTop	This setting will align the font at the top of the line
faBottom	This setting will align the font at the bottom of the line

See also

TBaseReport Class, *FontAlign*

Example

see *FontAlign*

7.4 TLineHeightMethod

Declaration

```
TLineHeightMethod = (lhmLinesPerInch, lhmFont);
```

Category

Position

Description

lhmLinesPerInch	This setting will cause the number of lines to be fit per inch
lhmFont	This setting will cause the line to adjust to the font size
lhmUser	This setting will allow the user to define *LineHeight* directly

See also

TBaseReport Class, *LineHeightMethod*, *LineHeight*

Example

See *LineHeightMethod*

7.5 TMacroID

Declaration

```
TMacroID = (midCurrDateShort, midCurrDateLong, midCurrDateUS,
midCurrDateInter, midCurrTimeShort, midCurrTimeLong, midCurrTimeAMPM,
midCurrTime24, midFirstPage, midLastPage, midTotalPages, midCurrentPage,
midPrinterName, midDriverName, midPortName, midUser01..midUser20);
```

Category

Printing

Description

midCurrDateShort	Returns the short date format
midCurrDateLong	Returns the long date format
midCurrDateUS	Returns the date as MM/DD/YY
midCurrDateInter	Returns the date as DD/MM/YY
midCurrTimeShort	Returns the short time format
midCurrTimeLong	Returns the long time format
midCurrTimeAMPM	Returns the time in am/pm format
midCurrTime24	Returns the time in 24 hour format
midFirstPage	Returns the first page number
midLastPage	Returns the last page number
midTotalPages	Returns the total number of pages
midCurrentPage	Returns the current page number
midPrinterName	Returns the printer name
midDriverName	Returns the driver name
midPortName	Returns the port name
midUser01 through *midUser20*	Returns the n'th entry from MacroData

See also

TBaseReport Class, *Macro*, *MacroData*

Example

See *Macro*

7.6 TMarginMethod

Declaration

```
TMarginMethod = (mmScaled, mmFixed);
```

Category
Preview

Description

mmScaled	This setting will cause the margin on the preview screen to be scaled according to MarginPercent
mmFixed	Margins will not change in the preview screen

See also
TRvRenderPreview Class, *MarginMethod*, *MarginPercent*

Example
see *MarginMethod*

7.7 TOrientation

Declaration
```
TOrientation = (poPortrait, poLandscape, poDefault);
```

Category
Control

Description

poPortrait	Portrait mode
poLandscape	Landscape mode
poDefault	Default mode on the current printer

See also
TBaseReport Class, *Orientation*

Example
see *Orientation* example

7.8 TPrintJustify

Declaration
```
TPrintJustify = (pjCenter, pjLeft, pjRight, pjBlock);
```

Category
Printing

Description

pjCenter	Center justify
pjLeft	Justify to the left
pjRight	Justify to the right
pjBlock	Block (full) justify

See also
TBaseReport Class, *Justify*, *PrintFooter*, *PrintHeader*, *SetTab*

Example
See *SetTab*

7.9 TPrintUnits

Declaration
```
TPrintUnits = (unInch, unMM, unCM, unPoint, unUser);
```

Category
Units

Description

unInch	This setting will set the units to inches
unMM	This setting will set the units to millimeters
unCM	This setting will set the units to centimeters
unPoint	This setting will set the units to pixels
unUser	This setting will set the units to a scale provided by the user

See also

TBaseReport Class, *Units*

Example

see *Units*

7.10 TReportDest

Declaration

```
TReportDest = (rdPreview, rdPrinter, rdFile);
```

Category

ReportSystem

Description

rdPreview	This setting will send the report to the preview screen
rdPrinter	This setting will send the report to the printer
rdFile	This setting will send the report to a file

See also

TRvSystem Class, *DefaultDest*

Example

see *DefaultDest*

7.11 TStreamMode

Declaration

```
TStreamMode = (smMemory, smTempFile, smFile, smUser);
```

Category

Control

Description

smMemory	This setting will use a memory stream for input and output
smFile	This setting will use a file for input and output
smTempFile	will send the output to a temporary file in the \Windows\Temp directory. This filename used by smTempFile is created by the TRvSystem component and will be deleted when it is finished. If this stream mode is used with a custom preview system utilizing TRvNDRWriter, TRvRenderPrinter and TRvRenderPreview components, the generated FileName property from the TRvNDRWriter component must be transferred to the TRvRenderPrinter and TRvRenderPreview componentsoutput
smUser	This setting will use stream defined by user for input and output

See also

TBaseReport Class, *Stream*, *StreamMode*

Example

See *StreamMode*

7.12 TSystemOption

Declaration

```
TSystemOption = (soUseFiler, soWaitForOK, soShowStatus,
soAllowPrintFromPreview, soPreviewModal);
```

Category
ReportSystem

Description
see *SystemOptions*

See also
TRvSystem Class, *SystemOptions*

Example
see *SystemOptions*

7.13 TSystemOptions

Declaration

```
TSystemOptions = Set of TSystemOption;
```

Category
ReportSystem

Description
see *SystemOptions*

See also
TRvSystem Class, *SystemOptions*

Example
see *SystemOptions*

7.14 TSystemSetup

Declaration

```
TSystemSetup = (ssAllowSetup, ssAllowCopies, ssAllowCollate, ssAllowDuplex,
ssAllowDestPreview, ssAllowDestPrinter, ssAllowDestFile, ssAllowPrinterSetup);
```

Category
ReportSystem

Description

ssAllowSetup	If false, the setup screen will not be displayed
ssAllowCopies	If false, the user will not be able to change the copies
ssAllowCollate	If false, the user will not be able to change the collation mode
ssAllowDuplex	If false, the user will not be able to change the duplex mode
ssAllowDestPreview	If false, the user will not be able to select the preview screen as the report destination
ssAllowDestPrinter	If false, the user will not be able to select the printer as the report destination
ssAllowDestFile	If false, the user will not be able to select a disk file as the report destination
ssAllowPrinterSetup	If false, the user will not be able to select the printer setup dialog

See also
TRvSystem Class, *SystemSetups*

Example
see *SystemSetups*

7.15 TSystemSetups

Declaration

```
TSystemSetups = Set of TSystemSetup;
```

Category
ReportSystem

Description
see *TSystemSetup*

See also
TRvSystem Class, *SystemSetups*, *TSystemSetup*

Example
see *SystemSetups*

7.16 TTabJustify

Declaration
```
TTabJustify = (tjCenter, tjLeft, tjRight, tjBlock, tjNone);
```

Category
Tabs

Description

tjCenter	This setting will center justify tabs
tjLeft	This setting will left justify tabs
tjRight	This setting will right justify tabs
tjBlock	This setting will block justify tabs
tjNone	This setting will disable justification override

See also
TBaseReport Class, *TabJustify*

Example
see *TabJustify*

Archived

Chapter VIII

8 Archived

The following components have been archived and are no longer being actively developed or supported on new platforms such as CLX, Linux or .NET. They will remain part of the BEX windows version of Rave for backwards compatibility. However, their functionality is better supported by other areas in Rave and are not recommended for use in new reporting projects. These archived components will NOT be recognized by the BE versions of Rave Reports (bundled with a Borland product).

* TFilePreview	- Superseded by TRvRenderPreview
* TFilePrinter	- Superseded by TRvRenderPrinter
* TReportPrinter	- Superseded by TRvRenderPrinter
* TRpHTMLFiler	- Superseded by TRvRenderHTML
* TRTFFiler	- Superseded by TRvRenderRTF
* TTextFiler	- Superseded by TRvRenderText

The following components are also being archived and are superseded by the visual reporting components for table style reports. **These archived components should not be used in new reporting projects**.

* TDetailShell	- Superceeded by visual reporting components (Region/Bands)
* TLabelShell	- Superceeded by visual reporting components (Region/Bands using settings of Region.Columns and Region.ColumnWidth)
* TMasterShell	- Superceeded by visual reporting components (Region/Bands)
* TReportShell	- Superceeded by visual reporting components (Region/Bands)
* TDbTablePrinter	- Superceeded by visual reporting components (Region/Bands)
* TTablePrinter	- Superceeded by visual reporting components (Region/Bands using custom data connection for non-database data)

The archived events, methods and properties are listed following this section.

8.1 Components

This will be a list of all archived components (those only available in the BEX version).

8.1.1 TDbTablePrinter

Unit

RpDbTabl

Hierarchy

TBaseShell
|
TTablePrinter
|
TDbTablePrinter

Description
This component has the capability to generate table style listings with little to no code required. You can even link multiple table printers together for master-detail relationships to multiple levels. The table printers get their flexibility from two other components, *TDbTableColumn* and *TTableSection*. *TDbTableColumns* are responsible for all the properties and events for a single column of data while the *TTableSections* are responsible for all headers and footers.

TDbTablePrinter Events
OnGetNextRow, OnInitMaster, OnInitTable, OnValidateRow

TDbTablePrinter Methods
Create, Default, *Execute*

TDbTablePrinter Properties
DataSet, DetailKey, DetailTablePrinter. Engine, Font, MasterKey, MasterTablePrinter, Pen, ReprintHeader, StartPos, TableColumn, TableColumns, TableSection, TextBKMode

8.1.2 TDetailShell

Unit

RpShell

Hierarchy

TBaseShell
|
TDetailShell

Description
This component is the simplest of the framework components, so we will start with that. *TDetailShell* is good for table listing style reports where you still want to code the report, but in a more structured and easier to maintain format. There are 2 main parts to the shell components, the sections and the events.

TDetailShell Events
OnBodyAfter, OnBodyBefore, OnBodyFooter, OnBodyHeader, OnRowAfter, OnRowBefore, OnRowPrint

TDetailShell Methods
Execute, PrintBodyFooter, PrintBodyHeader, PrintRow

TDetailShell Properties
Engine, IsNewPage, IsReprint, SectionBodyFooter, SectionBodyHeader, SectionRow, StartNewPage

8.1.3 TLabelShell

Unit

RpLabel

Hierarchy

TBaseShell
|
TLabelShell

Description
This shell component is a specialized one that will help with label style reports. There are many predefined formats or you can create a completely custom one. TLabelShell gets it power from OriginX and OriginY. Using these properties to change the upper left hand corner of the page to the upper left hand corner of each label, your reporting code will use the exact same positions for each label on the page.

TLabelShell Events
OnLabelAfter, OnLabelBefore,OnLabelPrint, OnPageAfter, OnPageBefore, OnReportAfter, OnReportBefore

TLabelShell Methods
Execute

TLabelShell Properties
Border, Col, DrawExtents, DrawPen, DrawPreviewOnly, LabelBrand, LabelHeight, LabelShape, LabelWidth, NumAcross, NumDown, PrintByRow, Row, SpacingHeight, SpacingLeft, SpacingTop, SpacingWidth

8.1.4 TMasterShell

Unit

RpShell

Hierarchy

TBaseShell
|
TDetailShell
|
TMasterShell

Description
This component is the next shell component in Rave we'll discuss and provides a good balance between simplicity and functionality. It adds the concept of groups and detail sections to the structure that was presented for *TDetailShell*.

TMasterShell Events
OnBodyAfter, OnBodyBefore, OnBodyFooter, OnBodyHeader, OnDetailAfter, OnDetailBefore, OnGroupAfter, OnGroupAfterLast, OnGroupBefore, OnGroupBeforeFirst, OnGroupFooter, OnGroupHeader, OnRowAfter, OnRowBefore, OnRowPrint

TMasterShell Methods
Execute, PrintBodyFooter, PrintBodyHeader, PrintDetail, PrintGroupFooter, PrintGroupHeader, PrintRow

TMasterShell Properties
DetailReport, Engine, IsNewPage, IsReprint, Reprint, SectionBodyFooter, SectionBodyHeader, SectionGroupFooter, SectionGroupHeader, SectionRow, StartNewPage

8.1.5 TReportShell

Unit

RpShell

Hierarchy

TBaseShell
|
TDetailShell
|
TMasterShell
|
TReportShell

Description
This shell component is very similar to a TMasterShell component, but adds report and page headers and footers.

TReportShell Events
OnBodyAfter, OnBodyBefore, OnBodyFooter, OnBodyHeader, OnDetailAfter, OnDetailBefore, OnGroupAfter, OnGroupAfterLast, OnGroupBefore, OnGroupBeforeFirst, OnGroupFooter, OnGroupHeader, OnPageAfter, OnPageBefore, OnPageFooter, OnPageHeader, OnReportAfter, OnReportBefore, OnReportFooter, OnReportHeader, OnRowAfter, OnRowBefore, OnRowPrint

TReportShell Methods
Execute, PrintBodyFooter, PrintBodyHeader, PrintDetail, PrintGroupFooter, PrintGroupHeader, PrintPageFooter, PrintPageHeader, PrintReportFooter, PrintReportHeader, PrintRow

TReportShell Properties
DetailReport, Engine, IsNewPage, IsReprint, Reprint, SectionBodyFooter, SectionBodyHeader, SectionGroupFooter, SectionGroupHeader, SectionPageFooter, SectionPageHeader, SectionReportFooter, SectionReportHeader, SectionRow. StartNewPage

8.1.6 TTablePrinter

Unit

RpTable

Hierarchy

TBaseShell
|
TTablePrinter

Description
TTablePrinter and TTableColumn are the non-database counterparts to TDbTablePrinter and TDbTableColumn. One difference between the two sets of components is the obvious lack of database type properties in TTablePrinter and TTableColumn. The other difference is that the event handlers will be used quite a bit more extensively to provide the data to the table printer component from whatever data source it is coming from. The most common event handlers that will be overridden for TTablePrinter are OnInitTable and OnGetNextRow, and for TTableColumn they are OnAddTotal, OnRowSetup and OnRowHeight. For more information, look at the demo projects included with Rave for a more detailed example of how to use TTablePrinter..

TTablePrinter Events
OnGetNextRow, OnInitMaster, OnInitTable, OnValidateRow

TTablePrinter Methods
Default, Execute

TTablePrinter Properties
DetailTablePrinter, Engine, Font, MasterTablePrinter, Pen, ReprintHeader, StartPos, TableColumn, TableColumns, TableSection, TextBKMode

8.2 Events

This will be a list of all archived events (those only available in the BEX version).

8.2.1 OnAddTotal event

Declaration

```
procedure OnAddTotal(TTableColumn: TTableColumn);
```

Category

TablePrinter

Components

TDbTableColumn, TTableColumn

Description

This event is called to update the totals, GrandTotal, PageTotal and SubTotal for a table column.

See also

GrandTotal, PageTotal, SubTotal

8.2.2 OnBodyAfter

Declaration

```
procedure OnBodyAfter(ReportPrinter: TBaseReport;
                      ReportShell: TDetailShell);
```

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This is where you de-initialize resources for use in the body of the report.

See also

OnBodyBefore, *OnBodyFooter*, *OnBodyHeader*

8.2.3 OnBodyBefore

Declaration

```
procedure OnBodyBefore(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This is where you initialize resources for use in the body of the report.

See also

OnBodyAfter, *OnBodyFooter*, *OnBodyHeader*

8.2.4 OnBodyFooter

Declaration

```
procedure OnBodyFooter(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is called to print the body footer for a shell report.

See also
PrintBodyFooter, PrintBodyHeader, SectionBodyFooter, SectionBodyHeader

8.2.5 OnBodyHeader

Declaration
```
procedure OnBodyHeader(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is called to print the body header for a shell report.

See also
PrintBodyFooter, PrintBodyHeader, SectionBodyFooter, SectionBodyHeader

8.2.6 OnDetailAfter

Declaration
```
procedure OnDetailAfter(ReportPrinter: TBaseReport;
                        ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is called after the detail section of a shell report is printed.

See also
DetailReport, PrintDetail

8.2.7 OnDetailBefore

Declaration
```
procedure OnDetailBefore(ReportPrinter: TBaseReport;
                         ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is called before the detail section of a shell report is printed.

See also
DetailReport, *PrintDetail*

8.2.8 OnEndOfSection

Declaration
```
procedure OnEndOfSection(Sender: TObject);
```

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is called after the detail section of a shell report is printed.

See also
DetailReport, *PrintDetail*

8.2.9 OnGroupAfter

Declaration
```
procedure OnGroupAfter(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This is where you de-initialize resources used in the group.

See also
OnGroupAfterLast, *OnGroupBeforeFirst*

8.2.10 OnGroupAfterLast

Declaration
```
procedure OnGroupAfterLast(ReportPrinter: TBaseReport;
                           ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This event is called after the last group.

See also
OnGroupAfter, *OnGroupBefore*

8.2.11 OnGroupBefore

Declaration
```
procedure OnGroupBefore(ReportPrinter: TBaseReport;
                        ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This is where you initialize resources for use in the group.

See also
OnGroupAfterLast, *OnGroupBeforeFirst*

8.2.12 OnGroupBeforeFirst

Declaration
```
procedure OnGroupBeforeFirst(ReportPrinter: TBaseReport;
                             ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This event is called before the first group.

See also
OnGroupAfter, *OnGroupBefore*

8.2.13 OnGroupFooter

Declaration
```
procedure OnGroupFooter(ReportPrinter: TBaseReport;
                        ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This event is called to print the group footer for a shell report.

See also
PrintBodyFooter, *PrintBodyHeader*, *SectionGroupFooter*, *SectionGroupHeader*

8.2.14 OnGroupHeader

Declaration
```
procedure OnGroupHeader(ReportPrinter: TBaseReport;
                        ReportShell: TDetailShell);
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This event is called to print the group header for a shell report.

See also
PrintBodyFooter, *PrintBodyHeader*, *SectionGroupFooter*, *SectionGroupHeader*

8.2.15 OnLabelAfter event

Declaration
```
procedure OnLabelAfter(ReportPrinter: TBaseReport;
                       LabelShell: TLabelShell;
                       var Valid: Boolean);
```

Category
Label

Components
TLabelShell

Description
This event is where you would de-initialize any resources for a label.

See also
OnLabelBefore, *OnLabelPrint*

8.2.16 OnLabelBefore

Declaration
```
procedure OnLabelBefore(ReportPrinter: TBaseReport;
                        LabelShell: TLabelShell;
                        var Valid: Boolean);
```

Category
Label

Components
    TLabelShell

Description
    This event is where you would initialize any resources for a label.

See also
    OnLabelAfter, *OnLabelPrint*

8.2.17 OnLabelPrint event

Declaration
```
procedure OnLabelPrint(ReportPrinter: TBaseReport;
                       LabelShell: TLabelShell;
                       var Valid: Boolean);
```

Category
    Label

Components
    TLabelShell

Description
    This event is called to print the contents of each label.

See also
    Col, *Row*, *TextWidth*

8.2.18 OnOverFlow event

Declaration
```
procedure OnOverFlow(TTableColumn: TTableColumn);
```

Category
    TablePrinter

Components
    TDbTableColumn, TTableColumn

Description
    This event is called if text is too wide to print in the current column and OverflowMethod for the TTableColumn component is set to omUser. This allows you to modify the text however you wish so that it will fit.

See also
    OverflowMethod

8.2.19 OnPageAfter

Declaration
```
procedure OnPageAfter(ReportPrinter: TBaseReport;
                      LabelShell: TLabelShell);
```

Default
    nil

Category
    Shell

Components
    TLabelShell, TReportShell

Description

This event is called after each page of a shell report.

8.2.20 OnPageBefore

Declaration

```
procedure OnPageBefore(ReportPrinter: TBaseReport;
                       LabelShell: TLabelShell);
```

Default

nil

Category

Shell

Components

TLabelShell, TReportShell

Description

This event is called before each page of a shell report.

8.2.21 OnPageFooter

Declaration

```
procedure OnPageFooter(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Default

nil

Category

Shell

Components

TReportShell

Description

This event is called to print the page footer for a shell report.

See also

PrintPageFooter, *PrintPageHeader*, *SectionPageFooter*, *SectionPageHeader*

8.2.22 OnPageHeader

Declaration

```
procedure OnPageHeader(ReportPrinter: TBaseReport;
                       ReportShell: TDetailShell);
```

Default

nil

Category

Shell

Components

TReportShell

Description

This event is called to print the page header for a shell report.

See also

PrintPageFooter, *PrintPageHeader*, *SectionPageFooter*, *SectionPageHeader*

8.2.23 OnReportAfter

Declaration

```
procedure OnReportAfter: TReportEvent;
```

Default

nil

Category

Shell

Components

TLabelShell, TReportShell

Description

This event is called after a shell report.

8.2.24 OnReportBefore

Declaration

```
procedure OnReportBefore: TReportEvent;
```

Default

nil

Category

Shell

Components

TLabelShell, TReportShell

Description

This event is called before a shell report.

8.2.25 OnReportFooter

Declaration

```
procedure OnReportFooter: TReportEvent;
```

Default

nil

Category

Shell

Components

TReportShell

Description

This is where you put the output that goes into the report footer.

See also

PrintReportFooter, *PrintReportHeader*, *SectionReportFooter*, *SectionReportHeader*

8.2.26 OnReportHeader

Declaration

```
procedure OnReportHeader: TReportEvent;
```

Default

nil

Category
Shell

Components
TReportShell

Description
This is where you put the output that goes into the report header.

See also
PrintReportFooter, *PrintReportHeader*, *SectionReportFooter*, *SectionReportHeader*

8.2.27 OnRowAfter

Declaration
```
procedure OnRowAfter: TReportValidEvent;
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is where you de-initialize output that goes into a row. A value of false for Valid results in no more rows being assumed.

See also
PrintRow, *SectionRow*

8.2.28 OnRowBefore

Declaration
```
procedure OnRowBefore: TReportValidEvent;
```

Default
nil

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This event is where you initialize output that goes into a row. A value of false for Valid results in no more rows being assumed.

See also
PrintRow, *SectionRow*

8.2.29 OnRowPrint

Declaration
```
procedure OnRowPrint: TReportValidEvent;
```

Default
nil

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This event is where you put the output that goes into a row. A value of false for Valid results in no more rows being assumed.

See also

PrintRow, *SectionRow*

8.3 Methods

This will be a list of all archived methods (those only available in the BEX version).

8.3.1 Default

Declaration

```
procedure Default(var Valid: Boolean);
```

Category

TablePrinter

Components

TTablePrinter, TDbTablePrinter

Description

This method will call the original code that would have executed if the *OnGetNextRow, OnInitMaster, OnInitTable* and *OnValidateRow* events are not overridden.

See also

OnGetNextRow, OnInitMaster, OnInitTable, OnValidateRow

8.3.2 PrintBodyFooter

Declaration

procedure PrintBodyFooter;

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This method will reprint the body footer by calling *OnBodyFooter* events with *IsReprint* set to true.

See also

OnBodyFooter, OnBodyHeader

Example (Delphi)

MasterShell1.PrintBodyFooter;

Example (C++ Builder)

MasterShell1->PrintBodyFooter();

8.3.3 PrintBodyHeader

Declaration

procedure PrintBodyHeader;

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This method will reprint the body header by calling OnBodyHeader events with *IsReprint* set to true.

See also

OnBodyFooter, OnBodyHeader

Example (Delphi)
MasterShell1.PrintBodyHeader;

Example (C++ Builder)
MasterShell1->PrintBodyHeader();

8.3.4 PrintDetail

Declaration
procedure PrintDetail;

Category
Shell

Components
TMasterShell, TReportShell

Description
This method will reprint the detail section of the group by calling *OnDetailBefore*, DetailReport.Execute and then *OnDetailAfter* with *IsReprint* set to true.

See also
DetailReport, *OnDetailAfter*, *OnDetailBefore*

Example (Delphi)
ReportShell1.PrintDetail;

Example (C++ Builder)
ReportShell1->PrintDetail();

8.3.5 PrintGroupFooter

Declaration
procedure PrintGroupFooter;

Category
Shell

Components
TMasterShell, TReportShell

Description
This method will reprint the group footer by calling the *OnGroupFooter* events with *IsReprint* set to true.

See also
OnGroupFooter, *OnGroupHeader*

Example (Delphi)
MasterShell1.PrintGroupFooter;

Example (C++ Builder)
MasterShell1->PrintGroupFooter();

8.3.6 PrintGroupHeader

Declaration
procedure PrintGroupHeader;

Category
Shell

Components
TMasterShell, TReportShell

Description
This method will reprint the group header by calling the *OnGroupHeader* event with *IsReprint* set to true.

See also
OnGroupFooter, *OnGroupHeader*

Example (Delphi)
MasterShell1.PrintGroupHeader;

Example (C++ Builder)
MasterShell1->PrintGroupHeader();

8.3.7 PrintPageFooter

Declaration
procedure PrintPageFooter;

Category
Shell

Components
TReportShell

Description
This method will reprint the page footer by calling the *OnPageFooter* event with *IsReprint* set to true..

See also
OnPageFooter, *OnPageHeader*

Example (Delphi)
ReportShell1.PrintPageFooter;

Example (C++ Builder)
ReportShell1->PrintPageFooter();

8.3.8 PrintPageHeader

Declaration
procedure PrintPageHeader;

Category
Shell

Components
TReportShell

Description
This method will reprint the page header by calling the *OnPageHeader* event with *IsReprint* set to true..

See also
OnPageFooter, *OnPageHeader*

Example (Delphi)
ReportShell1.PrintPageHeader;

Example (C++ Builder)
ReportShell1->PrintPageHeader();

8.3.9 PrintReportFooter

Declaration
procedure PrintReportFooter;

Category
Shell

Components
TReportShell

Description
This method will reprint the report footer by calling the *OnReportFooter* event with *IsReprint* set to true..

See also
OnReportFooter, *OnReportHeader*

Example (Delphi)
```
ReportShell1.PrintReportFooter;
```

Example (C++ Builder)
```
ReportShell1->PrintReportFooter();
```

8.3.10 PrintReportHeader

Declaration
procedure PrintReportHeader;

Category
Shell

Components
TReportShell

Description
This method will reprint the report header by calling the *OnReportHeader* event with *IsReprint* set to true..

See also
OnReportFooter, *OnReportHeader*

Example (Delphi)
```
ReportShell1.PrintReportHeader;
```

Example (C++ Builder)
```
ReportShell1->PrintReportHeader();
```

8.3.11 PrintRow

Declaration
procedure PrintRow;

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This method will reprint the row section of the group by calling *OnRowBefore* and *OnRowPrint*.

See also
OnRowAfter, *OnRowBefore*, *OnRowPrint*

Example (Delphi)
```
DetailShell1.PrintRow;
```

Example (C++ Builder)
DetailShell1->PrintRow();

8.3.12 SetupSection

Declaration
function SetupSection(BaseReport: TBaseReport): Boolean;

Category
ReportSection

Components
TReportSection

Description
This method will adjust the section to match the settings defined. If there is not enough height available for the section then a new page will be generated. The tabs and font will also be initialized if TabIndex or FontIndex are non-zero. This method is called automatically by the shell and table printer components.

See also
Enabled

Example (Delphi)
ReportSection.SetupSection(Sender as TBaseReport);

Example (C++ Builder)
ReportSection->SetupSection(dynamic_cast<TBaseReport*>(Sender));

8.4 Properties

This will be a list of all archived properties (those only available in the BEX version).

8.4.1 AsFloat

Declaration
```
property AsFloat: Double;
```

Default
0.0

Category
TablePrinter

Components
TDbTableColumn, TTableColumn

Description
Returns or sets the current contents of a table column as a floating point value. If the contents can not be converted to a floating point value, 0.0 will be returned.

See also
AsInteger

Example (Delphi)
```
WITH TableColumn do begin
  PageTotal := PageTotal + AsFloat;
end; { with }
```

Example (C++Builder)
```
TableColumn->PageTotal := TableColumn->PageTotal + TableColumn->AsFloat;
```

8.4.2 AsInteger

Declaration

```
property AsInteger: Integer;
```

Default

0

Category

TablePrinter

Components

TDbTableColumn, TTableColumn

Description

Returns or sets the current contents of a table column as an integer value. If the contents can not be converted to an integer value, 0 will be returned.

See also

AsFloat

Example (Delphi)

```
WITH TableColumn do begin
  GrandTotal := GrandTotal + AsInteger;
end; { with }
```

Example (C++Builder)

```
TableColumn->GrandTotal := TableColumn->GrandTotal + TableColumn->AsInteger;
```

8.4.3 Border

Declaration

```
property Border: Double;
```

Default

0.0

Category

Label

Components

TLabelShell

Description

This property defines the border, in units, around the edges of each label that the section will be initialized to before entering the OnLabelPrint event.

See also

SectionBottom, *SectionLeft*, *SectionRight*, *SectionTop*

Example (Delphi)

```
// Make sure there is a 0.1" border around the label
LabelShell1.Border := 0.1;
```

Example (C++Builder)

```
LabelShell1->Border = 0.1;
```

8.4.4 Bottom

Declaration

property Bottom: double;

Default

0.0

Category

ReportSection

Description

This property defines the placement for the bottom of the section. All values are in units and are relative to a specific position on the page, such as the page or margin edge, which is defined by the relative XxxxMethod property (such as *LeftMethod*).

See also

Left, *Right*, *Top*, *BottomMethod*

Example (Delphi)
```
ReportSection.Bottom := 0.5;
```

Example (C++Builder)
```
ReportSection->Bottom := 0.5;
```

8.4.5 BottomMethod

Declaration

property BottomMethod: TDistanceMethod;

Default

dmMargin (except TopMethod is dmSpecial)

Category

ReportSection

Description

These properties will define where each side of the section will be measured.

dmPage	will measure from the closest page edge
dmMargin	will measure from the closest margin edge
dmSpecial	for the *SectionTop* will measure from the current cursor position
dmSpecial	for *SectionRight* and *SectionBottom* will measure from the left and top section positions respectively.

See also

Left, *LeftMethod*, *RightMethod*, *TopMethod*

Example (Delphi)
```
ReportSection.LeftMethod := pjMargin;
```

Example (C++Builder)
```
ReportSection->LeftMethod = pjMargin;
```

8.4.6 BoxLines

Declaration
```
property BoxLines: TBoxLines;
```

Default

blAll

Category

TablePrinter

Components

TDbTableColumn, TTableColumn, TTableSection

Description

This property returns or sets the row box settings for each table column or table section component. These constants are listed below

blAll	Lines drawn on all sides
blNone	No lines drawn
blBottom	Line drawn on bottom only
blLeft	Line drawn on left side only
blLeftBottom	and bottom
blLeftRight	and right
blLeftTop	and top
blRight	Line drawn on right side only
blRightBottom	and bottom
blRightTop	and top
blTop	Line drawn on top only
blTopBottom	Lines drawn on top and bottom
blNoTop	All lines except indicated are drawn
blNoBottom	
blNoLeft	
blNoRight	

See also

TBoxLines

Example (Delphi)

```
With TableColumn do begin
  BoxLines := blNoLeft;
end; { with }
```

Example (C++Builder)

```
TableColumn->BoxLines = blNoLeft;
```

8.4.7 Col

Declaration

```
property Col: integer;
```

Default

none

Category

Label

Components

TLabelShell

Description

This property will return the current label column that is being printed. This property will only return valid values while the TLabelShell component is executing..

See also

Row

Example (Delphi)

```
Print('On Column ' + IntToStr(Col));
```

Example (C++Builder)

```
rp1->Print("On Column " + IntToStr(Col));
```

8.4.8 Description

Declaration

```
property Description: TComponentName;
```

Default
none

Category
TablePrinter

Components
TDbTableColumn, TTableColumn, TTableSection

Description
This property returns or sets the description of a table section or table column component. This property is normally only used at design time to identify an item.

See also
PrintDetail

Example (Delphi)
```
Description := 'Customer Name';
```

Example (C++Builder)
```
Description = 'Customer Name';
```

8.4.9 DetailReport

Declaration
```
property DetailReport: TDetailShell;
```

Default
nil

Category
Shell

Components
TMasterShell, TReportShell

Description
This property defines the shell component that will be called to print the detail section of the report. *TReportShell* components cannot be used as a detail report of another shell component. The Execute method of *DetailReport* will be called between the *OnDetailBefore* and *OnDetailAfter* events.

See also
PrintDetail

Example (Delphi)
```
MasterShell1.DetailReport := DetailShell1;
```

Example (C++Builder)
```
MasterShell1->DetailReport = DetailShell1;
```

8.4.10 DetailTablePrinter

Declaration
```
property DetailTablePrinter: TBaseShell;
```

Default
nil

Category
TablePrinter

Components
TDbTablePrinter, TTablePrinter

Description
This property defines the table printer component that will be called to print the detail section.

See also
PrintDetail

Example (Delphi)
```
DBTablePrinter1.DetailTablePrinter := DBTablePrinter2;
```

Example (C++Builder)
```
DBTablePrinter1->DetailTablePrinter = DBTablePrinter2;
```

8.4.11 DisplayFormat

Declaration
```
property DisplayFormat: string;
```

Default
(empty)

Category
TablePrinter

Components
TDbTableColumn, TTableColumn

Description
This property defines the formatting string that will be used when converting numeric or date/time data to text. If this property is blank then default formatting will occur.

See also
FormatFloat, FormatDateTime

8.4.12 DrawExtents

Declaration
```
property DrawExtents: Boolean;
```

Default
false

Category
Label

Components
TLabelShell

Description
This property determines whether the sides of the label are drawn. This can be useful for determining the placement of text without having to actually print on labels.

See also
DrawPen, *DrawPreviewOnly*

Example (Delphi)
```
LabelShell1.DrawExtents := true;
```

Example (C++Builder)
```
LabelShell1->DrawExtents = true;
```

8.4.13 DrawPen

Declaration
```
property DrawPen: TPen;
```

Default
stock pen

Category
Label

Components
TLabelShell

Description
This property defines the pen used to draw the sides of the label.

See also
DrawExtents, *DrawPreviewOnly*, *TPen*

Example (Delphi)
```
LabelShell1.DrawPen.Color := clBlue;
```

Example (C++Builder)
```
LabelShell1->DrawPen->Color = clBlue;
```

8.4.14 DrawPreviewOnly

Declaration
```
property DrawPreviewOnly: Boolean;
```

Default
true

Category
Label

Components
TLabelShell

Description
This property will determine whether the label sides drawn by *DrawPen* appear in the print preview screen only or on both the printer and preview screen.

See also
DrawExtents, *DrawPen*

Example (Delphi)
```
LabelShell1.DrawPreviewOnly := false;
```

Example (C++Builder)
```
LabelShell1->DrawPreviewOnly = false;
```

8.4.15 Enabled

Declaration
```
property Enabled: Boolean;
```

Default
true

Category
ReportSection

Components
TReportSection

Description
This property will enable or disable the section settings during a call to SetupSection. If this property is set to false then no settings for the section will be used.

See also
SetupSection

Example (Delphi)
```
ReportSection.Enabled := false;
```

Example (C++Builder)
```
ReportSection->Enabled = false;
```

8.4.16 Font

Declaration
```
property Font: TFont;
```

Default
System font

Category
TablePrinter

Components
TDbTableColumn, TTableColumn, TTablePrinter, TTableSection

Description
This property defines or returns the font that will be used to draw the contents of a table section or table column.

See also
Other FontXxxx properties

Example (Delphi)
```
TableColumn.Font.Cololr := clRed;
```

Example (C++Builder)
```
TableColumn->Font->Color = clRed;
```

8.4.17 FontIndex

Declaration
```
property FontIndex: integer;
```

Default
0

Category
ReportSection

Components
TReportSection

Description

This property defines the saved font position that will be initialized during a call to SetupSection. A value of 0 will not cause any font settings to be changed.

See also

SaveFont

Example (Delphi)

// Use the font settings save in position 1
```
FontIndex := 1;
```

Example (C++Builder)

```
ReportShell1->SectionGroupFooter->FontIndex = 1;
```

8.4.18 Height

Declaration

```
property Height: double;
```

Default

0.0

Category

ReportSection

Components

TReportSection

Description

This property defines the minimum height for a section. If the value is 0 then no minimum height will be required. If the value is greater than zero and there is not enough room in the section a new page will be generated.

See also

HeightMethod, *Reprint*

Example (Delphi)

```
ReportSection.HeightMethod := hmUnits;
ReportSection.Height := 0.5;
```

Example (C++Builder)

```
ReportSection->HeightMethod = hmUnits;
ReportSection->Height = 0.5;
```

8.4.19 HeightMethod

Declaration

```
property HeightMethod: THeightMethod;
```

Default

hmLines

Category

ReportSection

Components

TReportSection

Description

This property defines the units that Height is measured in. hmUnits will define the height in terms of units while hmLines will define the height in terms of a number of lines (defined by LineHeight).

See also
Height

Example
```
see Height(ReportSection)
```

8.4.20 IsNewPage

Declaration
```
property IsNewPage: Boolean;
```

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This property will be true immediately after a new page is generated and will remain true until after the first row is printed. This can be useful for determining if a title bar for a table needs to be printed.

See also
PrintDetail

Example (Delphi)
```
IF IsNewPage then begin
  ReprintTitleBar;
end; { if }
PrintNormalData;
```

Example (C++Builder)
```
if (ReportShell->IsNewPage) {
  ReprintTitleBar();
}// if
PrintNormalData();
```

8.4.21 IsReprint

Declaration
```
property IsReprint: Boolean;
```

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
This property will be true inside the printing events if they were called to print again. This can happen as a result of the Reprint property or by a call to any of the Shell PrintXxxxx methods (such as PrintBodyHeader).

See also
Reprint, all Shell PrintXxxx methods

Example (Delphi)
```
RvRenderPrinter.Print('Normal Data');
IF IsReprint then begin
  ReportPrinter.Print(' - continued...');
end; { if }
ReportPrinter.NewLine;
```

Example (C++Builder)
```
RvRenderPrinter->Print("Normal Data");
if (ReportShell->IsReprint) {
  RvRenderPrinter->Print(" - continued...");
}// if
RvRenderPrinter->NewLine();
```

8.4.22 LabelBrand

Declaration
```
property LabelBrand: TLabelBrand;
```

Default
lbAV5160

Category
Label

Components
TLabelShell

Description
This property can be used to define the brand of labels that you are using. There are many model numbers for the Avery© label line already supported or you can type in your own selections using the lbCustom value.

See also
CPI, *NewLine*

Example (Delphi)
```
LabelShell1.LabelBrand := lbAV5267;
```

Example (C++Builder)
```
LabelShell1->LabelBrand = lbAV5267;
```

8.4.23 LabelHeight

Declaration
```
property LabelHeight: double;
```

Default
1.0

Category
Label

Components
TLabelShell

Description
This property defines the height of the label in units.

See also
LabelWidth, *NumAcross*, *NumDown*

Example (Delphi)
```
LabelShell1.LabelHeight := 0.75;
```

Example (C++Builder)
```
LabelShell1->LabelHeight = 0.75;
```

8.4.24 LabelShape

Declaration

```
property LabelShape: TLabelShape;
```

Default

lsRoundRect

Category

Label

Components

TLabelShell

Description

Specifies the shape of the label that appears in the preview screen.

lsRect	represents a rectangle with square corners
lsRound	represents an elliptical or circular shape
lsRoundRect	represents a rectangle with the corners rounder off

8.4.25 LabelWidth

Declaration

```
property LabelWidth: double;
```

Default

2.63

Category

Label

Components

TLabelShell

Description

This property defines the width of the label in units.

See also

LabelHeight, *NumAcross*, *NumDown*

Example (Delphi)

```
LabelShell1.LabelWidth := 2.5;
```

Example (C++Builder)

```
LabelShell1->LabelWidth = 2.5;
```

8.4.26 Left

Declaration

```
property Left: double;
```

Default

0.0

Category

ReportSection

Components

TReportSection

Description

These properties define the placement for each side of the section. All values are in units and are relative to a specific position on the page, such as the page or margin edge, which is defined by the relative XxxxxMethod property (such as LeftMethod).

See also

BottomMethod, *LeftMethod*, *RightMethod*, *TopMethod*

Example (Delphi)

```
ReportSection.Bottom := 0.5;
```

Example (C++Builder)

```
ReportSection->Bottom = 0.5;
```

8.4.27 LeftMethod

Declaration

property LeftMethod: TDistanceMethod;

Default

dmMargin (except TopMethod is dmSpecial)

Category

ReportSection

Description

This property defines where the left side of the section will be measured.

dmPage	will measure from the closest page edge
dmMargin	will measure from the closest margin edge
dmSpecial	for the *SectionTop* will measure from the current cursor position
dmSpecial	for *SectionRight* and *SectionBottom* will measure from the left and top section positions respectively.

See also

BottomMethod, *Left*, *RightMethod*, *TopMethod*

Example (Delphi)

```
ReportSection.LeftMethod := pjMargin;
```

Example (C++Builder)

```
ReportSection->LeftMethod = pjMargin;
```

8.4.28 MinHeight

Declaration

```
property MinHeight: double;
```

Default

0.0

Category

ReportSection

Components

TReportSection

Description

This property defines the minimum height for a section. If the value is 0 then no minimum height will be required. If the value is greater than zero and there is not enough room in the section a new page will be generated.

See also
HeightMethod, *Reprint*

Example (Delphi)
```
ReportSection.HeightMethod := hmUnits;
ReportSection.MinHeight := 0.5;
```

Example (C++Builder)
```
ReportSection->HeightMethod = hmUnits;
ReportSection->MinHeight = 0.5;
```

8.4.29 NumAcross

Declaration
```
property NumAcross: integer;
```

Default
3

Category
Label

Components
TLabelShell

Description
This property defines the number of labels across each page.

See also
LabelHeight, *LabelWidth*, *NumDown*

Example (Delphi)
```
LabelShell1.NumAcross := 2;
```

Example (C++Builder)
```
LabelShell1->NumAcross = 2;
```

8.4.30 NumDown

Declaration
```
property NumDown: integer;
```

Default
10

Category
Label

Components
TLabelShell

Description
This property defines the number of labels down each page.

See also
LabelHeight, *LabelWidth*, *NumAcross*

Example (Delphi)
```
LabelShell1.NumDown := 7;
```

Example (C++Builder)
```
LabelShell1->NumDown = 7;
```

8.4.31 PrintByRow

Declaration
```
property PrintByRow: Boolean;
```

Default
true

Category
Label

Components
TLabelShell

Description
This property determines whether the TLabelShell component processes the labels of the page by rows or columns. If PrintByRow is true then all labels on the top row would be printed first. If PrintByRow is false then all labels on the left column would be printed first.

See also
Col, *Row*

Example (Delphi)
```
LabelShell1.PrintByRow := false;
```

Example (C++Builder)
```
LabelShell1->PrintByRow = false;
```

8.4.32 Reprint

Declaration
```
property Reprint: Boolean;
```

Default
false

Category
Shell

Components
TMasterShell, TReportShell

Description
This property defines whether the current row will be called to reprint if the detail section wraps to a second page. This can be useful to reprint the master record for detail records on another page.

See also
IsReprint

Example (Delphi)
```
MasterShell1.Reprint := true;
```

Example (C++Builder)
```
MasterShell1->Reprint = true;
```

8.4.33 Right

Declaration
```
property Right: double;
```

Default
0.0

Category
ReportSection

Components
TReportSection

Description
These properties define the placement for each side of the section. All values are in units and are relative to a specific position on the page, such as the page or margin edge, which is defined by the relative XxxxxMethod property (such as LeftMethod).

See also
BottomMethod, *LeftMethod*, *RightMethod*, *TopMethod*

Example (Delphi)
```
ReportSection.Bottom := 0.5;
```

Example (C++Builder)
```
ReportSection->Bottom = 0.5;
```

8.4.34 RightMethod

Declaration
property RightMethod: TDistanceMethod;

Default
dmMargin (except TopMethod is dmSpecial)

Category
ReportSection

Description
This property defines where the left side of the section will be measured.

dmPage	will measure from the closest page edge
dmMargin	will measure from the closest margin edge
dmSpecial	for the *SectionTop* will measure from the current cursor position
dmSpecial	for *SectionRight* and *SectionBottom* will measure from the left and top section positions respectively.

See also
BottomMethod, *Left*, *LeftMethod*, *TopMethod*

Example (Delphi)
```
ReportSection.LeftMethod := pjMargin;
```

Example (C++Builder)
```
ReportSection->LeftMethod = pjMargin;
```

8.4.35 Row

Declaration
```
property Row: Boolean;
```

Default
(current row of the label being printed)

Category
Label

Components
TLabelShell

Description

This property will return the current row of the label being printed.

See also

Col

8.4.36 SectionBodyFooter

Declaration

```
property SectionBodyFooter: TReportSection;
```

Default

Standard section values

Category

Shell

Components

TMasterShell, TReportShell

Description

Brings up the section editor, which you can use to define the section settings for the body footer.

See also

OnBodyFooter, *OnBodyHeader*

Example (Delphi)

```
SectionBodyFooter.Lines := 1;
```

Example (C++Builder)

```
SectionBodyFooter->Lines = 1;
```

8.4.37 SectionBodyHeader

Declaration

```
property SectionBodyHeader: TReportSection;
```

Default

Standard section values

Category

Shell

Components

TMasterShell, TReportShell

Description

Brings up the section editor, which you can use to define the section settings for the body header.

See also

OnBodyFooter, *OnBodyHeader*

Example (Delphi)

```
SectionBodyHeader.Lines := 1;
```

Example (C++Builder)

```
SectionBodyHeader->Lines = 1;
```

8.4.38 SectionGroupFooter

Declaration

```
property SectionGroupFooter: TReportSection;
```

Default
Standard section values

Category
Shell

Components
TMasterShell, TReportShell

Description
Brings up the section editor, which you can use to define the section settings for the group footer.

See also
OnGroupFooter, *OnGroupHeader*

Example (Delphi)
```
SectionGroupFooter.FontIndex := 4;
```

Example (C++Builder)
```
SectionGroupFooter->FontIndex = 4;
```

8.4.39 SectionGroupHeader

Declaration
```
property SectionGroupHeader: TReportSection;
```

Default
Standard section values

Category
Shell

Components
TMasterShell, TReportShell

Description
Brings up the section editor, which you can use to define the section settings for the group header.

See also
OnGroupFooter, *OnGroupHeader*

Example (Delphi)
```
SectionGroupHeader.FontIndex := 5;
```

Example (C++Builder)
```
SectionGroupHeader->FontIndex = 5;
```

8.4.40 SectionPageFooter

Declaration
```
property SectionPageFooter: TReportSection;
```

Default
Standard section values

Category
Shell

Components
TReportShell

Description

Brings up the section editor, which you can use to define the section settings for the page footer.

See also

OnPageFooter, *OnPageHeader*

Example (Delphi)

```
SectionPageFooter.BottomMethod := dmPage;
SectionPageFooter.Bottom := 0.25;
```

Example (C++Builder)

```
SectionPageFooter->BottomMethod = dmPage;
SectionPageFooter->Bottom = 0.25;
```

8.4.41 SectionPageHeader

Declaration

```
property SectionPageHeader: TReportSection;
```

Default

Standard section values

Category

Shell

Components

TReportShell

Description

Brings up the section editor, which you can use to define the section settings for the page header.

See also

OnPageFooter, *OnPageHeader*

Example (Delphi)

```
SectionPageHeader.TopMethod := dmPage;
SectionPageHeader.Top := 0.25;
```

Example (C++Builder)

```
SectionPageHeader->TopMethod = dmPage;
SectionPageHeader->Top = 0.25;
```

8.4.42 SectionReportFooter

Declaration

```
property SectionReportFooter: TReportSection;
```

Default

Standard section values

Category

Shell

Components

TReportShell

Description

Brings up the section editor, which you can use to define the section settings for the report footer.

See also

OnReportFooter, *OnReportHeader*

Example (Delphi)
```
SectionReportHeader.TopMethod := dmMargin;
SectionReportHeader.Top := 0.25;
```

Example (C++Builder)
```
SectionReportHeader->TopMethod = dmMargin;
SectionReportHeader->Top = 0.25;
```

8.4.43 SectionReportHeader

Declaration
```
property SectionReportHeader: TReportSection;
```

Default
Standard section values

Category
Shell

Components
TReportShell

Description
Brings up the section editor, which you can use to define the section settings for the report header.

See also
OnReportFooter, *OnReportHeader*

Example (Delphi)
```
SectionReportHeader.TopMethod := dmMargin;
SectionReportHeader.Top := 0.25;
```

Example (C++Builder)
```
SectionReportHeader->TopMethod = dmMargin;
SectionReportHeader->Top = 0.25;
```

8.4.44 SectionRow

Declaration
```
property SectionRow: TReportSection;
```

Default
Standard section values

Category
Shell

Components
TDetailShell, TMasterShell, TReportShell

Description
Brings up the section editor, which you can use to define the section settings for each row.

See also
OnRowPrint

Example (Delphi)
```
SectionRow.TabIndex := 2;
```

Example (C++Builder)
```
SectionRow->TabIndex = 2;
```

8.4.45 SkipNum

Declaration

```
property SkipNum: integer;
```

Default

0

Category

Label

Components

TLabelShell

Description

When SkipNum is set to a non-zero value, then TLabelShell will skip that many labels before it start printing. This can be useful if you want to prompt your users for the number of labels that have already been printed on the first sheet. This will automatically be reset to 0 after the label report has been executed.

See also

StartCol, *StartRow*

Example (Delphi)

DbTablePrinter2.SkipNum := 7;

Example (C++ Builder)

DbTablePrinter2->SkipNum = 7;

8.4.46 SpacingHeight

Declaration

```
property SpacingHeight: double;
```

Default

1.0

Category

Label

Components

TLabelShell

Description

This property returns or sets the label height plus the vertical spacing between two adjacent labels.

See also

SpacingLeft, *SpacingTop*, *SpacingWidth*

Example (Delphi)

```
LabelShell1.SpacingHeight := 1.2;
```

Example (C++Builder)

```
LabelShell1->SpacingHeight = 1.2;
```

8.4.47 SpacingLeft

Declaration

```
property SpacingLeft: double;
```

Default
0.19

Category
Label

Components
TLabelShell

Description
This property returns or sets the spacing between the left side of the label and the left margin.

See also
SpacingHeight, *SpacingTop*, *SpacingWidth*

Example (Delphi)
```
LabelShell1.SpacingLeft := 0.21;
```

Example (C++Builder)
```
LabelShell1->SpacingLeft = 0.21;
```

8.4.48 SpacingTop

Declaration
```
property SpacingTop: double;
```

Default
0.5

Category
Label

Components
TLabelShell

Description
This property returns or sets the spacing between the top of the label and the top margin.

See also
SpacingHeight, *SpacingLeft*, *SpacingWidth*

Example (Delphi)
```
LabelShell1.SpacingTop := 0.75;
```

Example (C++Builder)
```
LabelShell1->SpacingTop = 0.75;
```

8.4.49 SpacingWidth

Declaration
```
property SpacingWidth: double;
```

Default
2.75

Category
Label

Components
TLabelShell

Description

This property returns or sets the label width plus the horizontal spacing between two adjacent labels.

See also

SpacingHeight, *SpacingLeft*, *SpacingTop*, *TextWidth*

Example (Delphi)
```
LabelShell1.SpacingWidth := 3.00;
```

Example (C++Builder)
```
LabelShell1->SpacingWidth = 3.00;
```

8.4.50 StartCol

Declaration
```
property StartCol: integer;
```

Default

0

Category

Label

Components

TLabelShell

Description

Use both StartCol and StartRow to instruct TLabelShell to start printing at a particular row and column. This will automatically be reset to 0 after the label report has been executed.

See also

SkipNum, *StartRow*

Example (Delphi)
```
DbTablePrinter2.StartCol := 1;
DbTablePrinter2.StartRow := 2;
```

Example (C++Builder)
```
DbTablePrinter2->StartCol = 1;
DbTablePrinter2->StartRow = 2;
```

8.4.51 StartNewPage

Declaration
```
property StartNewPage: Boolean;
```

Default

false

Category

Shell

Components

TDetailShell, TMasterShell, TReportShell

Description

This property, if true, will force a page break before each new group prints. This can be useful for forms that contain one record per page.

See also

NewPage

Example (Delphi)
```
ReportShell1.StartNewPage := true;
```

Example (C++Builder)
```
ReportShell1->StartNewPage = true;
```

8.4.52 StartRow

Declaration
```
property StartRow: integer;
```

Default

0

Category

Label

Components

TLabelShell

Description

Use both StartCol and StartRow to instruct TLabelShell to start printing at a particular row and column. This will automatically be reset to 0 after the label report has been executed.

See also

SkipNum, *StartCol*

Example (Delphi)
```
DbTablePrinter2.StartCol := 1;
DbTablePrinter2.StartRow := 2;
```

Example (C++Builder)
```
DbTablePrinter2->StartCol = 1;
DbTablePrinter2->StartRow = 2;
```

8.4.53 TabIndex

Declaration
```
property TabIndex: integer;
```

Default

0

Category

ReportSection

Components

TReportSection

Description

These properties defines the saved tabs position that will be initialized during a call to SetupSection. A value of 0 will not cause any tab settings to be changed.

See also

SaveTabs

Example (Delphi)
```
TabIndex := 4; { Use the tab settings save in position 4 }
```

Example (C++Builder)
```
TabIndex = 4; // Use the tab settings save in position 4
```

8.4.54 Top

Declaration

```
property Top: double;
```

Default

0.0

Category

ReportSection

Components

TReportSection

Description

These properties define the placement for each side of the section. All values are in units and are relative to a specific position on the page, such as the page or margin edge, which is defined by the relative XxxxxMethod property (such as LeftMethod).

See also

BottomMethod, *LeftMethod*, *RightMethod*, *TopMethod*

Example (Delphi)

```
ReportSection.Bottom := 0.5;
```

Example (C++Builder)

```
ReportSection->Bottom = 0.5;
```

8.4.55 TopMethod

Declaration

property TopMethod: TDistanceMethod;

Default

dmSpecial

Category

ReportSection

Description

This property defines where the left side of the section will be measured.

dmPage	will measure from the closest page edge
dmMargin	will measure from the closest margin edge
dmSpecial	for the *SectionTop* will measure from the current cursor position
dmSpecial	for *SectionRight* and *SectionBottom* will measure from the left and top section positions respectively.

See also

BottomMethod, *Left*, *LeftMethod*, *RightMethod*

Example (Delphi)

```
ReportSection.LeftMethod := pjMargin;
```

Example (C++Builder)

```
ReportSection->LeftMethod = pjMargin;
```

8.4.56 Width

Declaration

```
property Width: Double;
```

Default

1.0

Category

TablePrinter

Components

TDbTableColumn, TTableColumn, TTableSection

Description

This property defines the width, in units, of the table section or table column.

See also

StartPos

Example (Delphi)

```
TableColumn.Width := 2.5;
```

Example (C++Builder)
```
   TableColumn->Width := 2.5;
```

8.5 Types

This will be a list of all archived Types (those only available in the BEX version).

8.5.1 TBoxLines

Declaration

```
TBoxLines = (blNone, blLeft, blRight, blLeftRight, blTop, blLeftTop,
blRightTop, blNoBottom, blBottom, blLeftBottom, blRightBottom, blNoTop,
blTopBottom, blNoRight, blNoLeft, blAll);
```

Category

TablePrinter

Description

blAll	Lines drawn on all sides
blNone	No lines drawn
blBottom	Line drawn on bottom only
blLeft	Line drawn on left side only
blLeftBottom	and bottom
blLeftRight	and right
blLeftTop	and top
blRight	Line drawn on right side only
blRightBottom	and bottom
blRightTop	and top
blTop	Line drawn on top only
blTopBottom	Lines drawn on top and bottom
blNoTop	All lines except indicated are drawn
blNoBottom	
blNoLeft	
blNoRight	

See also

BoxLines

Example

See *BoxLines*

8.5.2 TPrintJustifyVert

Declaration

```
TPrintJustifyVert = (pjTop, pjMiddle, pjBottom);
```

Category

Printing

Description

pjTop	Justify at the top of the row box
pjMiddle	Justify by the middle of the row box
pjBottom	Justify by the bottom of the row box

See also

TBaseReport Class, *Justify*, *PrintFooter*, *PrintHeader*, *SetTab*

Example

See *SetTab*

8.6 RpDev function

Declaration

```
function RpDev: TRpDevice;
```

Category

Printer

Components

RpDevice unit

Description

This function will return the current RpDevice object that is managing printing for Rave.

See also

RpDevice.PAS (BEX only)

By Category

Chapter IX

9 By Category

This is a list of events (54), methods (204) and properties (120) by functional areas or groups.

BarCode 35

Column 12
Control 41

Font 24

Graphics 40

Label BEX 23

Memo 46
Misc 15

Position 44
Preview 27
Printer 46
Printing 20

Rave 68
Render 26

ReportSection BEX 14
ReportSystem 16
RTF 4

Shell BEX 48

TablePrinter BEX 66
Tabs 21

Units 15

9.1 Category BarCode

BarBottom property (read/write) double
BarCodeJustify property (read/write)
BarCodeRotation property (read/write)
BarHeight property (read/write)
BarTop property (read/write) double
BarWidth property (read/write) double
BaseReport property (read/write)
Bottom property (read/write) double

Center property (read/write) double
CheckSum property (read only) Boolean
CodePage property (read/write)
Create method

Extended property (read/write) Boolean
ExtendedText property (read only) string

Height property (read only) double

IsValidChar method Boolean

Left property (read/write) double

Position property (read/write) double
Print method
PrintCheckSum property (read/write) Boolean
PrintFimA method
PrintFimB method
PrintFimC method
PrintJustify property (read/write) Boolean
PrintReadable property (read/write) Boolean
PrintTop property (read/write) Boolean
PrintXY method

ReadableHeight property (read only) double
Right property (read/write) double

Text property (read/write) string
TextJustify property (read/write)
Top property (read/write) double

UseCheckSum property (read/write) Boolean

WideFactor property (read/write) double
Width property (read only) double

9.2 Category Column

ClearColumns method
ColumnEnd property (read only) double
ColumnLinesLeft method
ColumnNum property (read/write) integer
Columns property (read only) integer
ColumnStart property (read only) double
ColumnWidth property (read only) double

NewColumn method
NewLine method
NewPara method

SetColumns method
SetColumnWidth method

9.3 Category Control

Abort method
Aborted property (read only) Boolean
AbortPage method
AccuracyMethod property (read/write/pub)
AllowAll method
AllowPreviewOnly method
AllowPrinterOnly method
.
BaseReport property (read/write)

CurrentPage property (read only) integer
.
EndLink method
Engine property (read/write/pub)
Execute method (2)
ExecuteCustom method

FileName property (read/write/pub) string
Finish method
FirstPage property (read/write/pub) integer

LastPage property (read/write/pub) integer

MakeLink method

NewColumn method
NewLine method
NewPage method
NewPara method

OnAfterPrint event (read/write/pub)
OnBeforePrint event (read/write/pub)
OnNewColumn event (read/write/pub)
OnNewPage event (read/write/pub)
OnPrint event (read/write/pub)

OnPrintFooter event (read/write/pub)
OnPrintHeader event (read/write/pub)
OnPrintPage event (read/write/pub) Boolean
OutputInvalid property (read only) Boolean

PageInvalid property (read only) Boolean
Printing property (read only) Boolean
[****]
Reset method

ScaleX property (read/write/pub) double
ScaleY property (read/write/pub) double
Selection property (read/write/pub) string
Start method
StartLink method
Stream property (read/write/pub)
StreamMode property (read/write/pub)

TAccuracyMethod type
TOrientation type
TStreamMode type

9.4 Category Font

AssignFont method

Bold property (read/write) Boolean

CreateFont method

FontAlign property (read/write)
FontCharset property (read/write) byte
FontColor property (read/write)
FontHandle property (read only)
FontHeight property (read/write)
FontName property (read/write) string
FontPitch property (read/write)
FontRotation property (read/write) integer
FontSize property (read/write) double
FontWidth property (read/write) double

Italic property (read/write) Boolean

PopFont method Boolean
PushFont method Boolean

RestoreFont method Boolean

SaveFont method Boolean
SetFont method
Strikeout property (read/write) Boolean
Subscript property (read/write) Boolean
Superscript property (read/write) Boolean

TFontAlign type

UnderLine property (read/write) Boolean

9.5 Category Graphics

Arc method

BKColor property (read/write)
BrushCopy method

CalcGraphicHeight method double
CalcGraphicWidth method double
Chord method
CopyRect method
CreateBrush method
CreatePen method
CreatePoint method
CreateRect method

Draw method
DrawFocusRect method

Ellipse method

FillRect method
FloodFill method
FrameMode property (read/write)
FrameRect method

GraphicFieldToBitmap method

LineTo method

MoveTo method

NoBufferLine property (read/write) Boolean

Pie method
Polygon method
Polyline method
PrintBitmap method
PrintBitmapRect method
PrintImageRect method

Rectangle method
RegisterGraphic method
ReuseGraphic method
RoundRect method

SetBrush method
SetPen method
ShadeToColor method
StretchDraw method

TextBKMode property (read/write/pub)
TextRect method
TBKMode type

UnregisterGraphic method

9.6 Category Label

Border property (read/write/pub) double

Col property (read only) integer

DrawExtents property (read/write/pub) Boolean
DrawPen property (read/write/pub)
DrawPreviewOnly property (read/write/pub) Boolean

LabelBrand property (read/write/pub)
LabelHeight property (read/write/pub) double
LabelShape property (read/write/pub)
LabelWidth property (read/write/pub) double

NumAcross property (read/write/pub) integer
NumDown property (read/write/pub) integer

OnLabelAfter event (read/write/pub)
OnLabelBefore event (read/write/pub)
OnLabelPrint event (read/write/pub)

PrintByRow property (read/write/pub) Boolean

Row property (read only) integer

SkipNum property (read/write/pub) integer
SpacingHeight property (read/write/pub) double
SpacingLeft property (read/write/pub) double
SpacingTop property (read/write/pub) double
SpacingWidth property (read/write/pub) double
StartCol property (read/write/pub) integer
StartRow property (read/write/pub) integer

9.7 Category Memo

Append method
AppendMemoBuf method
.
Buffer property (read only)
BufferInc property (read/write) longint
.
ConstraintHeightLeft method double

Delete method

Empty method Boolean

Field property (write only)
FreeSaved method

GetMemoLine method string
GetNextLine method

Insert method
InsertMemoBuf method

Justify property (read/write)

LoadFromStream method

MaxSize property (read/write) longint
Memo property (read/write)
MemoHeightLeft method double
MemoLines method longint
MemoLinesLeft method longint

NoCRLF property (read/write) Boolean
NoNewLine property (read/write) Boolean

Pos property (read/write) longint
PrintEnd property (read/write) double
PrintHeight method
PrintLines method
PrintMemo method
PrintStart property (read/write) double

ReplaceAll method
Reset method
RestoreBuffer method
RestoreState method
RichEdit property (write only) string
RTFField property (write only)
RTFLoadFromFile method
RTFLoadFromStream method
RTFText property (write only) string

SaveBuffer method
SaveState method
SaveToStream method
SearchFirst method Boolean
SearchNext method Boolean
SetData method
SetRTF method (archived)
Size property (read only) longint

Text property Memo (read/write) string

9.8 Category Misc -

CPI property (read/write/pub) double (Archived)
Create method
CurrentPass property (read/write/pub) integer

Destroy method

LPI property (read/write) double (Archived)

Macro method

RestoreDataSet property (read/write/pub) 5.1.1

StatusFormat property (read/write/pub) string
StatusLabel property (read/write/pub)
StatusText property (read/write/pub)

Title property (read/write/pub) string
TotalPasses property (read/write)

UpdateStatus method

Version property
Visible property (read/write/pub) 5.1.1

9.9 Category Position

AdjustLine method
AscentHeight property (read only) double

CR method
CursorXPos property (read only) longint
CursorYPos property (read only) longint

DescentHeight property (read only) double

FontBaseline property (read/write) double
FontBottom property (read/write) double
FontHeight property (read/write) double
FontTop property (read/write) double

GotoFooter method
GotoHeader method
GotoXY method

Home method

LF method
LineBottom property (read/write) double
LineHeight property (read only) double
LineHeightMethod property (read/write/pub)
LineMiddle property (read/write) double
LineNum property (read/write) integer
LinesLeft method integer
LinesPerInch property (read/write/pub) integer
LineTop property (read/write) double

MarginBottom property (read/write/pub) double
MarginLeft property (read/write/pub) double
MarginRight property (read/write/pub) double
MarginTop property (read/write/pub) double

NewLine method

OriginX property (read/write) double
OriginY property (read/write) double

PopPos method Boolean
PushPos method Boolean

ResetLineHeight method
ResetSection method
RestorePos method Boolean

SavePos method Boolean
SectionBottom property (read/write) double
SectionLeft property (read/write) double
SectionRight property (read/write) double
SectionTop property (read/write) double
SetTopOfPage method

TextWidth method
TLineHeightMethod type

XPos property (read/write) double
YPos property (read/write) double

9.10 Category Preview

Clear method

GridHoriz property (read/write/pub) double
GridPen property (read/write/pub)
GridVert property (read/write/pub) double

MarginMethod property (read/write/pub)
MarginPercent property (read/write/pub) double
Monochrome property (read/write/pub) Boolean

NextPage method

OnPageChange event (read/write/pub)
OnPreviewSetup event (read/write/pub)
OnPreviewShow event (read/write/pub)
OnZoomChange event (read/write/pub)

PageInc property (read/write/pub) integer

Pages property (read only) integer
PrevPage method
PrintPage method

RedrawPage method
RulerType property (read/write/pub)

ScrollBox property (read/write/pub)
ShadowDepth property (read/write/pub) integer

TMarginMethod type

ZoomFactor property (read/write/pub) double
ZoomIn method
ZoomInc property (read/write/pub) integer
ZoomOut method
ZoomPageFactor property (read only) double
ZoomPageWidthFactor property (read only) double

9.11 Category Printer

Bins property (read only)
BottomWaste property (read only) double

Canvas property (read only)
Collate property (read/write) Boolean
Copies property (read/write/pub) integer

DeviceName property (read only) string
DevMode property (read/write)
DriverName property (read only) string
Duplex property (read/write)

Fonts property (read only)

IgnoreFileSettings property (read/write) Boolean

LeftWaste property (read only) double

MaxCopies property (read/write/pub) longint

NoNTColorFix property (read/write) Boolean
NoPrinterPageHeight property (read/write) double
NoPrinterPageWidth property (read/write) double
NoPrinters method Boolean

Orientation property (read/write/pub)
OutputFileName property (read/write)
OutputName string property (read/write) string

PageHeight property (read only) double

PageWidth property (read only) double
Papers property (read only)
Port property (read only) string
PrintData method
PrintDataStream method
PrinterIndex property (read/write) integer
Printers property (read only)

RecoverPrinter method
ReleasePrinter method
ResetPrinter method
RightWaste property (read only) double
RpDev function

SelectBin method
SelectPaper method Boolean
SelectPrinter method Boolean
SetPaperSize method
SetPrintDialog method
SetPrintSetupDialog method
SupportBin method Boolean
SupportCollate method Boolean
SupportDuplex method Boolean
SupportOrientation method Boolean
SupportPaper method Boolean

TopWaste property (read only) double

XDPI property (read only) integer
YDPI property (read only) integer

9.12 Category Printing

Macro method string
MacroData property (read/write)
MakeLink method

PIVar method string
Print method
PrintBlock method
PrintCenter method
PrintCharJustify method
PrintFooter method
PrintHeader method
PrintLeft method
PrintLn method

PrintRight method
PrintTab method
PrintXY method

ReportDateTime property (read/write)

SetPIVar method

TMacroID type
TPrintJustify type
TPrintJustifyVert type (archived BEX only)
TruncateText property (read/write/pub) string

9.13 Category Rave -

Active property (read/write) Boolean

ClearRaveBlob method
Close method

DataSet property (read/write)
Design method
DesignReport method
DisableDataSource property (read/write/pub) 5.1.1
DLLFile property (read/write/pub)

Engine property
Execute method
ExecuteReport method

FieldAliasList property

GetParam method
GetReportCategoryList method
GetReportList method

LoadDesigner property
LoadFromFile method
LoadFromStream method
LoadRaveBlob method
LocalFilter property Boolean

OnAfterClose event (read/write/pub)
OnAfterOpen event (read/write/pub)
OnBeforeClose event (read/write/pub)
OnBeforeOpen event (read/write/pub)
OnCreate event
OnDesignerSave event (read/write/pub)
OnDesignerSaveAs event (read/write/pub)
OnDesignerShow event
OnDestroy event
OnEOF event
OnFirst event
OnGetCols event
OnGetRow event
OnGetSorts event
OnNext event
OnOpen event
OnRestore event
OnSetFilter event
OnSetSort event
OnValidateRow event
Open method

ProjectFile property (read/write/pub)
Query property (read/write/pub)

RaveBlobDateTime property (read/write/pub)
ReportDesc property
ReportDescToMemo method
ReportFullName property
ReportName property
RestoreDataSet property (read/write/pub) 5.1.1
RuntimeVisibility property

Save method
SaveRaveBlob method
SaveToFile method
SaveToStream method
SelectReport method
SetParam method
StoreRAV property (read only/special/pub)

Table property (read/write/pub)

UseSetRange property (read/write/pub)

WriteBCDData method
WriteBlobData method
WriteBoolData method
WriteCurrData method
WriteDateTime method
WriteFloatData method
WriteIntData method
WriteNullData method
WriteStrData method

9.14 Category Render -

Active property (read/write) **ALL**

BufferDocument property (read/write/pub) **PDF** 6.0.2

CacheDir property (read/write/pub) **HTML PDF**
CPI property (read/write/pub) **TEXT**

DisplayName property (read/write/pub) **ALL**
DocInfo Author property (read/write/pub) **PDF** 5.1.4
DocInfo Creator property (read/write/pub) **PDF**
DocInfo KeyWords property (read/write/pub) **PDF**
DocInfo Producer property (read/write/pub) **PDF**
DocInfo Subject property (read/write/pub) **PDF**

DocInfo Title property (read/write/pub) **PDF**

EmbedFonts property (read/write/pub) **PDF** 5.1.4

FileExtension property (read/write/pub) **ALL** 5.1.4
FontEncoding property (read/write/pub) **PDF** 5.1.4

FormFeed property (read/write/pub) **TEXT** 5.1.4

ImageEncoding property (read/write/pub) **RTF** 5.1.4
ImageOutput property (read/write/pub) **RTF**
ImageQuality property (read/write/pub) **PDF**

LeftBorder property (read/write/pub) **TEXT** 5.1.4
LPI property (read/write/pub) **TEXT** 5.1.4

MetafileDPI property (read/write/pub) **PDF**

OnCompress event (read/write) **PDF**
OnDecodeImage event (read/write/pub) **HTML PDF RTF**

ServerMode property (read/write/pub) **HTML PDF**

TopBorder property (read/write/pub) **TEXT** 5.1.4

UseCompression property (read/write/pub) **PDF**

9.15 Category ReportSection

Bottom property (read/write/pub) double
BottomMethod property (read/write/pub)

Enabled property (read/write/pub) Boolean

FontIndex property (read/write/pub) integer

Height property (read/write/pub) double
HeightMethod property (read/write/pub)

Left property (read/write/pub) double
LeftMethod property (read/write/pub)

MinHeight property (read/write/pub) double

Right property (read/write/pub) double
RightMethod property (read/write/pub)

SetupSection method

TabIndex property (read/write/pub) integer
Top property (read/write/pub) double
TopMethod property (read/write/pub)

9.16 Category ReportSystem

DefaultDest property (read/write/pub)

OverridePreview event (read/write)
OverrideSetup event (read/write)
OverrideStatus event (read/write)

ReportDest property (read only)

SystemFiler property (read/write/pub)
SystemOptions property (read/write/pub)
SystemPreview property (read/write/pub)

SystemPrinter property (read/write/pub)
SystemSetups property (read/write/pub)

TitlePreview property (read/write/pub)
TitleSetup property (read/write/pub)
TitleStatus property (read/write/pub)
TReportDest type
TSystemOption(s) type

TSystemSetup(s) type

9.17 Category RTF

NewPara method
ParaJustify property

SetRTF method (archived)
SoftLine method (archived)

9.18 Category Shell

DetailReport property (read/write/pub)

IsNewPage property (read only) Boolean
IsReprint property (read only) Boolean

OnBodyAfter event
OnBodyBefore event
OnBodyFooter event (read/write/pub)
OnBodyHeader event (read/write/pub)
OnDetailAfter event (read/write/pub)
OnDetailBefore event (read/write/pub)
OnEndOfSection event (read/write/pub)
OnGroupAfter event (read/write/pub)
OnGroupAfterLast event (read/write/pub)
OnGroupBefore event (read/write/pub)
OnGroupBeforeFirst event (read/write/pub)
OnGroupFooter event (read/write/pub)
OnGroupHeader event (read/write/pub)
OnPageAfter event (read/write/pub)
OnPageBefore event (read/write/pub)
OnPageFooter event (read/write/pub)
OnPageHeader event (read/write/pub)
OnReportAfter event (read/write/pub)
OnReportBefore event (read/write/pub)
OnReportFooter event (read/write/pub)
OnReportHeader event (read/write/pub)

OnRowAfter event (read/write/pub)
OnRowBefore event (read/write/pub)
OnRowPrint event (read/write/pub)

PrintBodyFooter method
PrintBodyHeader method
PrintDetail method
PrintGroupFooter method
PrintGroupHeader method
PrintPageFooter method
PrintPageHeader method
PrintReportFooter; method
PrintReportHeader method
PrintRow method

Reprint property (read/write/pub) Boolean

SectionBodyFooter property (read/write/pub)
SectionBodyHeader property (read/write/pub)
SectionGroupFooter property (read/write/pub)
SectionGroupHeader property (read/write/pub)
SectionPageFooter property (read/write/pub)
SectionPageHeader property (read/write/pub)
SectionReportFooter property (read/write/pub)
SectionReportHeader property (read/write/pub)
SectionRow property (read/write/pub)
StartNewPage property (read/write/pub) Boolean

9.19 Category TablePrinter -

AsFloat property (read/write) double
AsInteger property (read/write) double

BoxLines property (read/write/pub)

Default method
Description property (read/write/pub)
DetailTablePrinter property (read/write/pub)
DisplayFormat property (read/write/pub) string

Font property (read/write/pub)

GrandTotal property (read/write) double

Heading property (read/write/pub)

Justify property (read/write/pub)
JustifyVert property (read/write/pub)

Margin property (read/write/pub) double
Margin100 property (read/write/pub) double
MasterTablePrinter property (read/write)
MemoBuf property (read/write)
OnAddTotal event (read/write/pub)
OnAfter, OnBefore event (read/write/pub)
OnFooterAfter event (read/write/pub)
OnFooterBefore event (read/write/pub)
OnFooterPrint event (read/write/pub)
OnFooterSetup event (read/write/pub)
OnGetNextRow event (read/write/pub)
OnHeaderAfter event (read/write/pub)
OnHeaderBefore event (read/write/pub)
OnHeaderHeight
OnHeaderPrint event (read/write/pub)
OnInitMaster (2) event (read/write/pub)
OnInitMaster (TablePrinter) event (read/write/pub)
OnInitPage event (read/write/pub)
OnInitTable event (read/write/pub)
OnOverFlow event (read/write/pub)
OnRowBefore {TTable} event (read/write/pub)
OnRowHeight event (read/write/pub)
OnRowPrint {TTable} event (read/write/pub)
OnRowSetup event (read/write/pub)
OnSetup event (read/write/pub)
OnValidateRow event (read/write/pub)
OutputType property (read/write/pub)
OverflowMethod property (read/write/pub)
OverflowReplace property (read/write/pub)

PageTotal property (read/write) double
Pen property (read/write/pub)
PrintBox method
PrintDefault method

ReportPrinter property (read/write)
ReprintHeader property (read/write/pub) Boolean

Section property (read/write/pub)
SectionType property (read only)
ShadeColor property (read/write/pub)
ShadePercent property (read/write/pub) byte
SplitRow property (read/write/pub) Boolean
SubTotal property (read/write) double

TableColumn property (read only)
TableColumns property (read only) integer
TableItem property (read/write)
TablePrinter property (read/write)
TableSection property (read only)
TBoxLines type
TDuplex type
Text property (read/write/pub)
Totals property (read/write/pub) Boolean
TOutputType type
TOverflowMethod type

UseParentFont property (read/write/pub) Boolean
UseParentPen property (read/write/pub) Boolean

Width property (read/write/pub) double

9.20 Category Tabs

BoxLineColor property (read/write)
BoxLineXxxxx constants

ClearAllTabs method
ClearTabs method

FinishTabBox method

GetTab method

ParaJustify property (read/write)
PopTabs method Boolean
PushTabs method Boolean

ResetTabs method
RestoreTabs method Boolean

SaveTabs method Boolean
SetTab method

Tab method
TabColor property (read/write/pub)
TabEnd method double
TabJustify property (read/write)
TabShade property (read/write/pub) integer
TabStart method double
TabWidth method double
TTabJustify type

9.21 Category Units

TPrintUnits type

Units property (read/write/pub)
UnitsFactor property (read/write/pub) double

XD2I method double
XD2U method double
XI2D method longint
XI2U method double

XU2D method longint
XU2I method double

YD2I method double
YD2U method double
YI2D method longint
YI2U method double
YU2D method longint
YU2I method double

Format Codes

Chapter

X

10 Format Codes

The DisplayFormat property allows you to format the value given using a format string. The following format specifiers are supported in the format string:

10.1 Alphanumeric Items

The following is a list of the different alphanumeric format codes and what they accomplish for each output type.

Examples:

Format String	123456.78	-123.0	0.5	0.0
#,##0.00	123,456.78	-123.00	0.50	0.00
#.#	123456.8	-123	0.5	0
$,0.00	$123,456.78	$-123.00	$0.50	$0.00
0.00;(0.00);'-'	123456.78	(123.00)	0.50	-----

Specifier	Represents
0	Digit place holder. If value being formatted has a digit where the '0' appears, then the digit is copied to the output string. Otherwise, a '0' is in the output string.
#	Digit place holder. If value being formatted has a digit where the '#' appears, then the digit is copied to the output string. Otherwise, nothing appears in that position.
.	Decimal point. The first '.' character in the format string determines the location of the decimal separator in the formatted value. The actual character used as a the decimal separator in the output string is determined by the Number Format of the International section in the Windows Control Panel.
,	Thousand separator. If format string contains a ',' characters, the output will have thousand separators inserted between each group of three digits to left of decimal point. The actual character used as a thousand separator in the output is determined by the Number Format of the International section in the Windows Control Panel.
E+	Scientific notation. If any of the strings 'E+', 'E-', 'e+', or 'e-' are contained in the format string, the number is formatted using scientific notation. A group of up to four '0' characters can immediately follow the 'E+', 'E-', 'e+', or 'e-' to determine the minimum number of digits in the exponent. The 'E+' and 'e+' formats cause a plus sign to be output for positive exponents and a minus sign to be output for negative exponents. The 'E-' and 'e-' formats output a sign character only for negative exponents.
'xx'/"xx"	Characters enclosed in single or double quotes are output as-is, and do not affect formatting.
;	Separates sections for positive, negative, and zero numbers in the format string.

The locations of the leftmost '0' before the decimal point in the format string and the rightmost '0' after the decimal point in the format string determine the range of digits that are always present in the output string.

The number being formatted is always rounded to as many decimal places as there are digit place holders ('0' or '#') to the right of the decimal point. If the format string contains no decimal point, the value being formatted is rounded to the nearest whole number.

If the number being formatted has more digits to the left of the decimal separator than there are digit place holders to the left of the '.' character in the format string, the extra digits are output before the first digit placeholder.

To allow different formats for positive, negative, and zero values, the format string can contain between one and three sections separated by semicolons.

One section:	The format string applies to all values.
Two sections:	The first section applies to positive values and zeros, and the second section applies to negative values.
Three sections:	The first section applies to positive values, the second applies to negative values, and the third applies to zeros.

If the section for negative values or the section for zero values is empty, that is if there is nothing between the semicolons that delimit the section, the section for positive values is used instead.

If the section for positive values is empty, or if the entire format string is empty, the value is formatted using general floating-point formatting with 15 significant digits.

10.2 Date Time Items

Items that are either a date or time field can use the following format codes. The format specifiers are not case sensitive. If the format parameter is blank then the value is formatted as if a 'c' specifier had been given. The following format specifiers are supported:

Examples:

dddd, mmmm d, yyyy => Monday, September 21 2004
d mmm yy => 21 Sep 04

Specifier	Displays
c	Displays date using format given by ShortDateFormat global variable, followed by time using format given by LongTimeFormat global variable. The time is not displayed if fractional part of the DateTime value is zero.
d	Displays the day as a number without a leading zero (1-31).
dd	Displays the day as a number with a leading zero (01-31).
ddd	Displays the day as an abbreviation (Sun-Sat) using the strings given by the ShortDayNames global variable.
dddd	Displays the day as a full name (Sunday-Saturday) using the strings given by the LongDayNames global variable.
ddddd	Displays date using format given by the ShortDateFormat global variable.
dddddd	Displays date using format given by the LongDateFormat global variable.
m	Displays month as number without leading zero (1-12). If m specifier immediately follows h or hh specifier, the minute rather than month is displayed.
mm	Displays month as number with leading zero (01-12). If mm specifier immediately follows h or hh specifier, the minute rather than month is displayed.
mmm	Displays the month as an abbreviation (Jan-Dec) using the strings given by the ShortMonthNames global variable.
mmmm	Displays the month as a full name (January-December) using the strings given by the LongMonthNames global variable.
yy	Displays the year as a two-digit number (00-99).
yyyy	Displays the year as a four-digit number (0000-9999).
h	Displays the hour without a leading zero (0-23).
hh	Displays the hour with a leading zero (00-23).
n	Displays the minute without a leading zero (0-59).
nn	Displays the minute with a leading zero (00-59).
s	Displays the second without a leading zero (0-59).
ss	Displays the second with a leading zero (00-59).
t	Displays time using format given by the ShortTimeFormat global variable.
tt	Displays time using format given by the LongTimeFormat global variable.
am/pm	Uses the 12-hour clock for the preceding h or hh specifier, and displays 'am' for any hour before noon, and 'pm' for any hour after noon. The am/pm specifier can use lower, upper, or mixed case, and the result is displayed accordingly.
a/p	Uses the 12-hour clock for the preceding h or hh specifier, and displays 'a' for any hour before noon, and 'p' for any hour after noon. The a/p specifier can use lower, upper, or mixed case, and the result is displayed accordingly.
ampm	Uses the 12-hour clock for the preceding h or hh specifier, and displays the contents of the TimeAMString global variable for any hour before noon, and the contents of the TimePMString global variable for any hour after noon.
/	Displays date separator character given by DateSeparator global variable.
:	Displays time separator character given by TimeSeparator global variable.
'xx'/"xx"	Characters enclosed in single or double quotes are displayed as-is, and do not affect formatting.

Index