

SQL Manager.net™

EMS® Software Development

Advanced PDF Generator for RAD Studio User's Manual

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Advanced PDF Generator for RAD Studio User's Manual

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Part



1 Welcome to Advanced PDF Generator for RAD Studio!

1.1 Overview

EMS Advanced PDF Generator for RAD Studio is a component that gives you an opportunity to create PDF documents with your Delphi and C++ Builder applications in the simplest and easiest way. There is no need to know PDF specification - you can generate PDF files without any knowledge of PDF format using our Advanced PDF Generator. It allows you to break tables into several parts automatically in order to fit the pages, supports embedded tables, gives you an opportunity to add JPG pictures and much more!

Visit our web-site for details: <https://www.sqlmanager.net/>

Key features

- Easy-to-use component API gives you the easiest way to create PDF documents
- Support for 64-bit Windows target platform
- Automatic division of tables into several parts to fit the pages
- Full support of embedded tables
- Adding JPG, BMP pictures to PDF documents
- Adding EMF or WMF files to PDF in vector format
- Adding any other pictures that can be loaded in the TGraphic component
- Generating PDF documents with internal and external links
- Unicode characters full support
- Delphi 2010, XE-XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney, 11 Alexandria, 12 Athens and C++ Builder 2010, XE-XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney, 11 Alexandria, 12 Athens support
- Two encryption methods support - 40-bit and 128-bit
- Defining document properties: author, keywords, producer, subject, title

Product information

Homepage <https://www.sqlmanager.net/products/tools/pdfgenerator>
Support Ticket System <https://www.sqlmanager.net/support>
Register on-line at <https://www.sqlmanager.net/products/tools/pdfgenerator/buy>

1.2 What's new

Version**Advanced PDF Generator for RAD Studio 2.0.4****Release date**

December 8, 2023

What's new in Advanced PDF Generator for RAD Studio?

- Support for RAD Studio 12 Athens implemented.
- The paths for 32-bit Clang compiler in RAD Studio options fixed.
- The errors on building application with "Overflow checking" `{Q+}` and "Range checking" `{R+}` compiler options resolved.

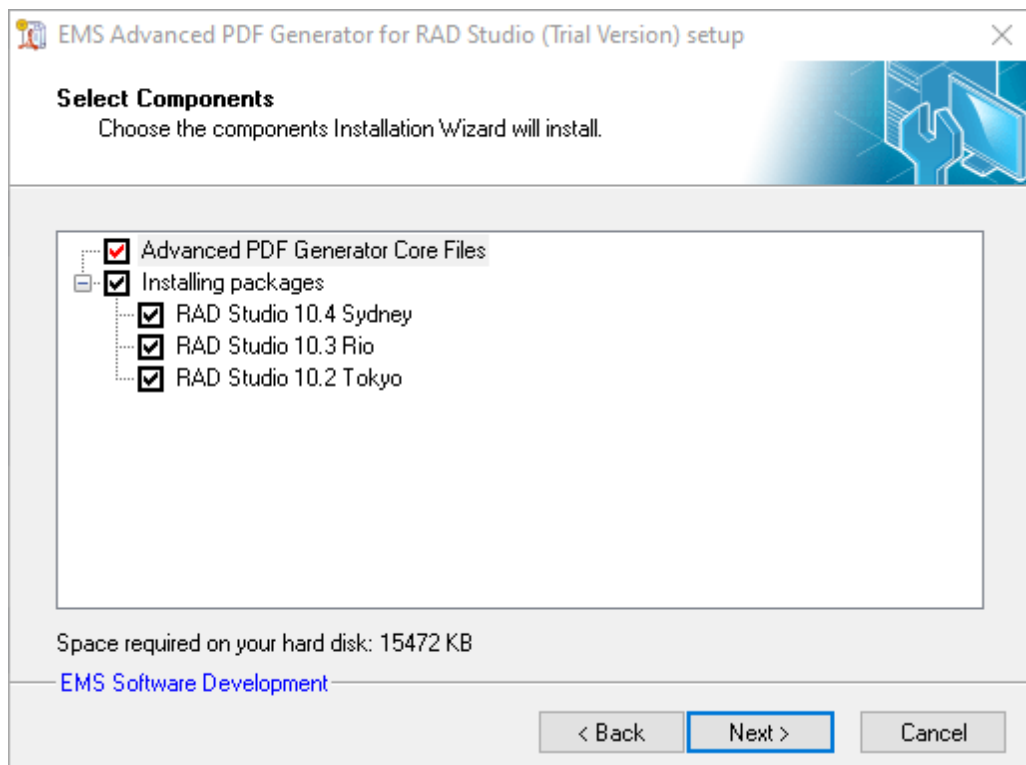
See also:[Version history](#)

1.3 Installation

To install the **trial version** of **Advanced PDF Generator for RAD Studio** onto your system:

- download the distribution package of **Advanced PDF Generator for RAD Studio** from the [download page](#) available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

During the installation you will need to select the packages to install:



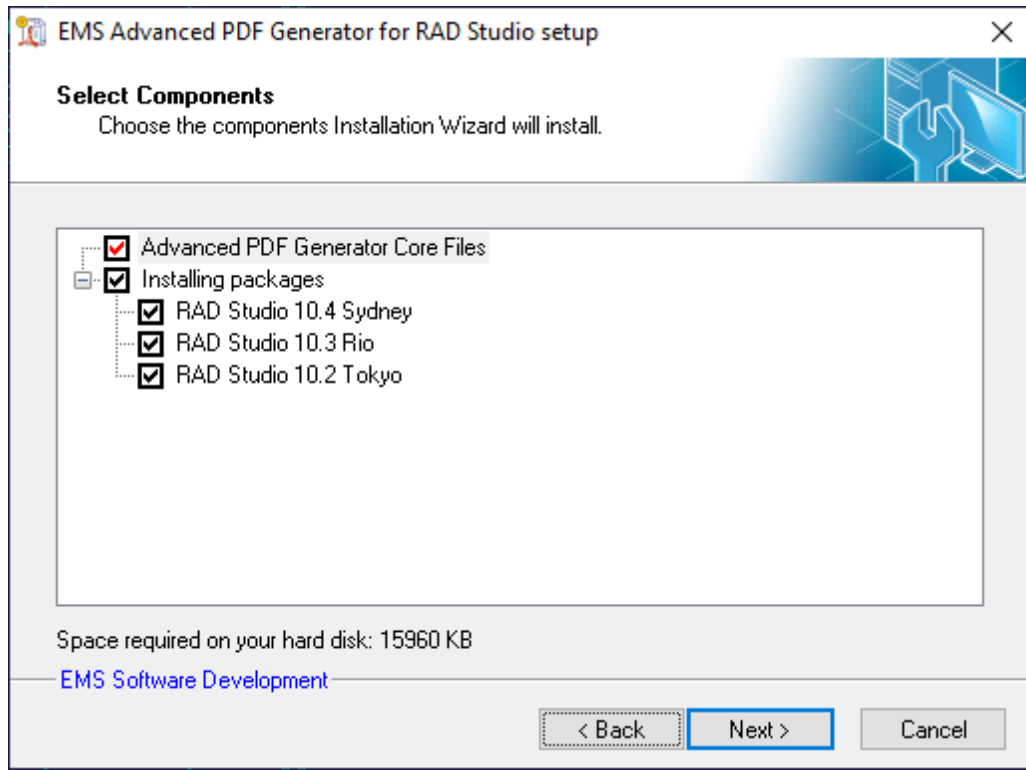
When you are done, you can finish installation of the **trial version** of **Advanced PDF Generator for RAD Studio**.

To install the **full version** of **Advanced PDF Generator for RAD Studio** onto your system:

- download the distribution package of **Advanced PDF Generator for RAD Studio** from the [download page](#) available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

Enter valid registration information in the appropriate boxes: **Registration name** and **Registration Key**. See [details](#) on getting this information.

During the installation you will need to select the packages to install:



When you are done, you can finish installation of the **full version** of **Advanced PDF Generator for RAD Studio**.

Note: If the above given instructions have been insufficient for successful installation of the component suite, please refer to the *readme.1st* file distributed with the product.

1.4 Registration

All purchases are provided by **Digital River** registration service. The **Digital River** order process is protected via a secure connection and makes on-line ordering by credit/debit card quick and safe.

Digital River is a global e-commerce provider for software and shareware sales via the Internet. It accepts payments in US Dollars, Euros, Pounds Sterling, Japanese Yen, Australian Dollars, Canadian Dollars or Swiss Franks by Credit Card (Visa, MasterCard/ EuroCard, American Express, Diners Club), Bank/Wire Transfer, Check or Cash.

If you want to review your order information, or you have questions about ordering or payments please visit our [Customer Care Center](#), provided by **Digital River**.

Please note that all of our products are delivered via ESD (Electronic Software Delivery) only. After purchase you will be able to immediately download the registration keys or passwords. Also you will receive a copy of registration keys or passwords by email. Please make sure to enter a valid email address in your order. If you have not received the keys within 2 hours, please, contact us at sales@sqlmanager.net.

Product distribution	MyCommerce/Digital River
Advanced PDF Generator for RAD Studio Component Full version (with sources)*	Register Now!
Advanced PDF Generator for RAD Studio Component Trial version	Download Now!

* **EMS Maintenance Program** provides the following benefits:

- Free software bug fixes, enhancements, updates and upgrades during the maintenance period
- Free unlimited communications with technical staff for the purpose of reporting Software failures
- Free reasonable number of communications for the purpose of consultation on operational aspects of the software

After your maintenance expires you will not be able to update your software or get technical support. To protect your investments and have your software up-to-date, you need to renew your maintenance.

You can easily reinitiate/renew your maintenance with our on-line, speed-through Maintenance Reinstatement/Renewal Interface. After reinitiating/renewal you will receive a confirmation e-mail with all the necessary information.

1.5 How to register Advanced PDF Generator

To register your newly purchased copy of **EMS Advanced PDF Generator for RAD Studio**, perform the following steps:

- receive the notification letter from **Share-it!** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter while [installing](#) the **full version** of the product.

See also:

[Registration](#)

1.6 Version history

Product name	Version	Release date
Advanced PDF Generator for RAD Studio	Version 2.0.3	September 28, 2021
Advanced PDF Generator for RAD Studio	Version 2.0.2	June 25, 2020
Advanced PDF Generator for RAD Studio	Version 2.0.1	December 29, 2018
Advanced PDF Generator for RAD Studio	Version 2.0	May 29, 2017
Advanced PDF Generator for RAD Studio	Version 1.5.5	July 05, 2016
Advanced PDF Generator for RAD Studio	Version 1.5.4	December 12, 2015
Advanced PDF Generator for RAD Studio	Version 1.5.2	May 5, 2013
Advanced PDF Generator for RAD Studio	Version 1.5.1	November 17, 2012
Advanced PDF Generator for RAD Studio	Version 1.5	October 7, 2011
Advanced PDF Generator for RAD Studio	Version 1.4	February 20, 2011
Advanced PDF Generator for RAD Studio	Version 1.3	December 4, 2009
Advanced PDF Generator for RAD Studio	Version 1.2	August 27, 2009
QuickPDF	Version 1.1	July 1, 2004

Full version history is available at <https://www.sqlmanager.net/products/tools/pdfgenerator/news>

Version 2.0.3

- Support for RAD Studio 11 Alexandria implemented.

Version 2.0.2

- Support for RAD Studio 10.4 Sydney implemented.
- The exception on creating a PDF file in the win64 apps has been fixed
- End of support for RAD Studio 2009 and older versions

Version 2.0.1

- Support of RAD Studio 10.3 Rio implemented

Version 2.0

- Support of RAD Studio 10.2 Tokyo added.
- Support for 64-bit Windows target platform added.
- Rendering of vector images has been fixed.
- Drawing on PDF page canvas has been fixed.
- Some other minor improvements and bug fixes.

Version 1.5.5

- Added the support of Embarcadero RAD Studio 10.1 Berlin

Version 1.5.4

- Added the support of Embarcadero RAD Studio from XE5 to 10 Seattle.

Version 1.5.2

- Added the support of Embarcadero RAD Studio XE4.

Version 1.5.1

- Added the support of Embarcadero RAD Studio XE3.

Version 1.5

- Added the support of Embarcadero RAD Studio XE2.

- Other small improvements and bug fixes.

Version 1.4

- Support of RAD Studio 2010 is added
- Minor improvements and bug-fixes

Version 1.3

- Support of RAD Studio 2010 is added
- Minor improvements and bug-fixes

Version 1.2

- RAD Studio 2009 support is added
- With the new installer used, the components are installed and registered in Delphi / C++ Builder environment automatically
- Minor improvements and bug-fixes

Version 1.1

- Now the QuickPDF Component Suite supports raster fonts. You can use these fonts without any difficulties when generating documents with our component
- With this version you can add links to external files and FTP servers in the same way as to HTTP resources
- We have added an ability to align text vertically in table cells. Use the Cell.VerticalAlign property for this purpose
- Now you can draw on the document sheet using the TPDFCell.Canvas property
- The new Clipping property of the TPDFTable class is added. Set this property to True to clip any text and pictures that are not fit in cells
- Other minor improvements and bug-fixes

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See also:

[What's new](#)

1.7 Other EMS Products

Quick navigation



[MySQL](#)



[Microsoft SQL Server](#)



[PostgreSQL](#)



[InterBase / FireBird](#)



[Oracle](#)



[IBM DB2](#)



[Tools & components](#)

MySQL



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EMS SQL Management Studio for MySQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



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Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



[Data Export for MySQL](#)

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.



[Data Import for MySQL](#)

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



[Data Pump for MySQL](#)

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to MySQL.



[Data Generator for MySQL](#)

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



[DB Comparer for MySQL](#)

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



[DB Extract for MySQL](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



[SQL Query for MySQL](#)

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



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Microsoft SQL Server



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Perform administrative tasks in the fastest, easiest and most efficient way. Manage maintenance tasks, monitor their performance schedule, frequency and the last execution result.



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Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more



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[DB Extract for SQL Server](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



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Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



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Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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PostgreSQL



[SQL Management Studio for PostgreSQL](#)

EMS SQL Management Studio for PostgreSQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



[EMS SQL Backup for PostgreSQL](#)

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[Data Pump for PostgreSQL](#)

Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, InterBase/Firebird, etc.) to PostgreSQL.



[Data Generator for PostgreSQL](#)

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



[DB Comparer for PostgreSQL](#)

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



[DB Extract for PostgreSQL](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



[SQL Query for PostgreSQL](#)

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



[Data Comparer for PostgreSQL](#)

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InterBase / Firebird



[SQL Management Studio for InterBase/Firebird](#)

EMS SQL Management Studio for InterBase and Firebird is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



[SQL Manager for InterBase/Firebird](#)

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



[Data Export for InterBase/Firebird](#)

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more



[Data Import for InterBase/Firebird](#)

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



[Data Pump for InterBase/Firebird](#)

Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, PostgreSQL, etc.) to InterBase/Firebird.



[Data Generator for InterBase/Firebird](#)

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



[DB Comparer for InterBase/Firebird](#)

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



[DB Extract for InterBase/Firebird](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



[SQL Query for InterBase/Firebird](#)

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



[Data Comparer for InterBase/Firebird](#)

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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Oracle



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[Data Export for Oracle](#)

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[Data Import for Oracle](#)

Import your data from MS Access, MS Excel and other popular formats to database tables via

user-friendly wizard interface.



[Data Pump for Oracle](#)

Migrate from most popular databases (MySQL, PostgreSQL, MySQL, DB2, InterBase/Firebird, etc.) to Oracle



[Data Generator for Oracle](#)

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



[DB Comparer for Oracle](#)

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



[DB Extract for Oracle](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



[SQL Query for Oracle](#)

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



[Data Comparer for Oracle](#)

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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IBM DB2



[SQL Manager for DB2](#)

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



[Data Export for DB2](#)

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.



[Data Import for DB2](#)

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



[Data Pump for DB2](#)

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, MySQL, InterBase/Firebird, etc.) to DB2



[Data Generator for DB2](#)

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



[DB Extract for DB2](#)

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



[SQL Query for DB2](#)

Analyze and retrieve your data, build your queries visually, work with query plans, build charts

based on retrieved data quickly and more.

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Tools & components



[Advanced Data Export for RAD Studio VCL](#)

Advanced Data Export for RAD Studio VCL allows you to save your data in the most popular office programs formats.



[Advanced Data Export .NET](#)

Advanced Data Export .NET is a component for Microsoft Visual Studio .NET that will allow you to save your data in the most popular data formats for the future viewing, modification, printing or web publication. You can export data into MS Access, MS Excel, MS Word (RTF), PDF, TXT, DBF, CSV and more! There will be no need to waste your time on tiresome data conversion - Advanced Data Export will do the task quickly and will give the result in the desired format.



[Advanced Data Import for RAD Studio VCL](#)

Advanced Data Import for RAD Studio VCL will allow you to import your data to the database from files in the most popular data formats.



[Advanced PDF Generator for RAD Studio](#)

Advanced PDF Generator for RAD Studio gives you an opportunity to create PDF documents with your applications written on Delphi or C++ Builder.



[Advanced Query Builder for RAD Studio VCL](#)

Advanced Query Builder for RAD Studio VCL is a powerful component for Delphi and C++ Builder intended for visual building SQL statements for the SELECT, INSERT, UPDATE and DELETE clauses.



[Advanced Excel Report for RAD Studio](#)

Advanced Excel Report for RAD Studio is a powerful band-oriented generator of template-based reports in MS Excel.



[Advanced Localizer for RAD Studio VCL](#)

Advanced Localizer for RAD Studio VCL is an indispensable component for Delphi for adding multilingual support to your applications.

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Part



2 Advanced PDF Generator

EMS Advanced PDF Generator for RAD Studio represents a set of tools for generating PDF documents with text, links, images, tables, etc. None of the mechanisms of cooperation between applications in Microsoft Windows environment (DDE, OLE) is used when generating PDF documents, which ensures an extremely high speed of work.

The suite consists of the main [TQuickPdf](#) with basic properties, and a set of various objects describing PDF elements.

Advanced PDF Generator for RAD Studio provides a collection of the following components:

Component	Unit	Brief description
TQuickPDF	QuickPDF	The main component of the suite
TQuickPDFContentsItem	QuickPDF	An item of the document contents
TQuickPDFDocument	QuickPDF	An entire PDF document
TQuickPDFPageInfo	QuickPDF	Information about document page sizes
TRenderAtom	QPDFRender	A basic class for all document objects
TRenderCell	QPDFRender	A table cell
TRenderImage	QPDFRender	An image
TRenderRow	QPDFRender	A table row
TRenderSequence	QPDFRender	A sequence of objects
TRenderTable	QPDFRender	A table
TRenderWord	QPDFRender	An unbreakable sentence

2.1 TQuickPdf

2.1.1 TQuickPdf Reference

Unit

[QuickPdf](#)

Description

The *TQuickPDF* component is the main component of the suite. In this class the basic properties of the document are determined, and so are the three basic methods - [GenerateToString](#), [GenerateToFile](#), and [GenerateToStream](#).

2.1.2 Properties

▶ Run-time only  Key properties

- ▶ [Contents](#)
- ▶ [Document](#)
- ▶ [EmbeddedFonts](#)
- ▶ [FileName](#)
- ▶ [PageInfo](#)
- ▶ [PDFAuthor](#)
- ▶ [PDFCreator](#)
- ▶ [PDFKeywords](#)
- ▶ [PDFSubject](#)
- ▶ [PDFTitle](#)
- ▶ [Security](#)
- ▶ [SecurityOptions](#)
- ▶ [SecurityOwnerPassword](#)
- ▶ [SecurityUserPassword](#)

2.1.2.1 Contents

property Contents: [TQuickPdfContentsItem](#);

Description

The *Contents* property is used to define the document contents. The document contents is formed up as a tree of [TQuickPdfContentsItem](#) objects. Each node in a contents consists of a label and a name of the link which the contents item is associated with. Each node can have a list of subnodes associated with it. This property is accessible only at runtime.

See also:

[TQuickPdfContentsItem Class](#)

2.1.2.2 Document

property Document: [TQuickPdfDocument](#);

Description

The *Document* property describes the entire PDF document as a set of objects, such as tables, text, images, etc. This property is read-only and accessible only at runtime.

See also:

[TQuickPdfDocument Class](#)

2.1.2.3 EmbeddedFonts

`property EmbeddedFonts: Boolean;`

Description

Set this option to True to embed all the fonts used in the document to the result PDF file.

2.1.2.4 FileName

```
property FileName: String;
```

Description

The *FileName* property defines the name of the result PDF document. The property must not be empty; if it is empty in the moment of the [GenerateToFile](#) method invocation, the component will stop being executed having generated an exception with the message 'FileName property is not assigned'.

2.1.2.5 PageInfo

property PageInfo: [TQuickPdfPageInfo](#);

Description

The *PageInfo* property contains the information about the document page size.

2.1.2.6 PDFAuthor

`property PDFAuthor: String;`

Description

The *PDFAuthor* property defines an author of the result PDF document.

See also:

[PDFCreator](#)

[PDFKeywords](#)

[PDFSubject](#)

[PDFTitle](#)

2.1.2.7 PDFCreator

`property PDFCreator: String;`

Description

The *PDFCreator* property defines a name of the program that generated the result PDF document.

See also:

[PDFAuthor](#)

[PDFKeywords](#)

[PDFSubject](#)

[PDFTitle](#)

2.1.2.8 PDFKeywords

`property PDFKeywords: String;`

Description

The *PDFKeywords* property defines a list of keywords that relates to the result PDF document.

See also:

[PDFAuthor](#)

[PDFCreator](#)

[PDFSubject](#)

[PDFTitle](#)

2.1.2.9 PDFSubject

`property PDFSubject: String;`

Description

The *PDFSubject* property defines a subject of the result PDF document.

See also:

[PDFAuthor](#)

[PDFCreator](#)

[PDFKeywords](#)

[PDFTitle](#)

2.1.2.10 PDFTitle

```
property PDFTitle: String;
```

Description

The *PDFTitle* property defines a title of the result PDF document.

See also:

[PDFAuthor](#)

[PDFCreator](#)

[PDFKeywords](#)

[PDFSubject](#)

2.1.2.11 Security

property Security: TQuickPdfSecurityMode;

type

TQuickPdfSecurityMode = (secDisabled, sec40bit, sec128bit);

Description

The *Security* property defines an encoding method that is used to crypt the result document.

See also:

[SecurityOptions](#)

[SecurityOwnerPassword](#)

[SecurityUserPassword](#)

2.1.2.12 SecurityOptions

```
property SecurityOptions: TQuickPdfSecurityOptions;
```

```
type
```

```
TQuickPdfSecurityOptions = set of (secPrint, secExtraction, secModify);
```

Description

The *SecurityOptions* property is a set of abilities that are given to user who accessed the document using a password that defined in the [SecurityUserPassword](#). Use this property to limit rights to print, modify, and extract a document content.

See also:

[SecurityOptions](#)

[SecurityOwnerPassword](#)

[SecurityUserPassword](#)

2.1.2.13 SecurityOwnerPassword

```
property SecurityOwnerPassword: String;
```

Description

The *SecurityUserPassword* property defines a user password to access the document. This password gives an ability to use the document with unlimited rights.

See also:

[PDFAuthor](#)

[PDFCreator](#)

[PDFKeywords](#)

[PDFTitle](#)

2.1.2.14 SecurityUserPassword

```
property SecurityUserPassword: String;
```

Description

The *SecurityUserPassword* property defines a user password to access the document. This password gives an ability to use the document with rights that are defined by the [SecurityOptions](#) property.

See also:


[PDFAuthor](#)

[PDFCreator](#)

[PDFKeywords](#)

[PDFTitle](#)

2.1.3 Methods

 Key methods

[Clear](#)

[GenerateToString](#)

[GenerateToFile](#)

[GenerateToStream](#)

2.1.3.1 Clear

```
procedure Clear;
```

Description

Use this method to clear the document.

2.1.3.2 GenerateToFile

```
procedure GenerateToFile;
```

Description

Use *GenerateToFile* to generate a document to the file specified by the [FileName](#) property.

See also:

[GenerateToStream Method](#)

[GenerateToString Method](#)

2.1.3.3 GenerateToString

```
function GenerateToString: String;
```

Description

Use *GenerateToString* to generate a document to a string that is returned as a result of the function execution.

See also:

[GenerateToFile Method](#)

[GenerateToStream Method](#)

2.1.3.4 GenerateToStream

```
procedure GenerateToStream(Stream: TStream);
```

Description

Use *GenerateToStream* to generate a document to the stream specified by the Stream parameter. This can be any TStream descendant.

See also:

[GenerateToFile Method](#)

[GenerateToStream Method](#)

2.2 TQuickPdfContentsItem

2.2.1 TQuickPdfContentsItem Reference

Unit


[QuickPdf](#)

Description

The *TQuickPDFContentsItem* class represents an item of a contents. Use this class to create your contents menu for the document. Each item in a contents consists of a label and a name of the link which the contents item is associated with. Each item can have a list of subitems associated with it.

2.2.2 Properties

▶ Run-time only

 Key properties

- ▶ [Count](#)
- ▶ [Items](#)
- ▶ [Link](#)
- ▶ [Parent](#)
- ▶ [Title](#)

2.2.2.1 Count

`property Count: Integer;`

Description

The *Count* property returns an amount of subitems for the item. This property is read-only and accessible only at runtime.

2.2.2.2 Items

property Items[Index: **Integer**]: [TQuickPdfContentsItem](#);

Description

Use *Items* to access subitems for the item by index. This property is read-only and accessible only at runtime.

2.2.2.3 Link

```
property Link: String;
```

Description

The *Link* property defines a name of the link in the document which the current item points to. Link names are specified by the [LinkName](#) property of all objects in the document.

2.2.2.4 Parent

property Parent: [TQuickPdfContentsItem](#);

Description

The *Parent* property returns the item which the current item is associated with. This property is accessible only at runtime.

2.2.2.5 Title

`property Title: String;`


Description

The *Title* property defines the displayable text for the contents item. This text is displayed in PDF contents.

See also:

[LinkTarget](#)

2.2.3 Methods

 Key methods

[Add](#)

[Clear](#)

2.2.3.1 Add

```
function Add(ATitle, ALink: String): TQuickPdfContentsItem;
```

Description

The *Add* method creates a subitem for the item and adds it to a list of subitems. The *ATitle* parameter specifies a title of the new subitem, and the *ALink* property specifies a link which the new subitem is associated with.

See also:

[Create](#)

[Clear](#)

2.2.3.2 Create

constructor Create(ATitle, ALink: **String**; AParent: [TQuickPDFContentsItem](#) = **nil**); **overl**

Description

Use this method to create new instances of the [TQuickPDFContentsItem](#) class.

See also:

[Add](#)

[Clear](#)

2.2.3.3 Clear

`procedure Clear;`

Description

Use the *Clear* method to delete all children of an item, freeing all associated memory.

See also:

[Add](#)

[Create](#)

2.3 TQuickPdfDocument

2.3.1 TQuickPdfDocument Reference

Unit

[QuickPdf](#)

Description


The *TQuickPDFDocument* class describes the PDF document as a [header](#), [footer](#), and a set of [document sections](#). This class cannot be created by the user, but can be accessed at runtime through the [Document](#) property of the [TQuickPDF](#) component.

See also:

[TQuickPDF Component](#)

2.3.2 Properties

▶ Run-time only

 Key properties

- ▶ [Footer](#)
- ▶ [Header](#)
- ▶ [MainTable](#)
- ▶ [Section](#)
- ▶ [Width](#)

2.3.2.1 Footer

`property` Footer: [TRenderCell](#);

Description

The *Footer* property defines the footer for each page of the document. As a matter of fact, this property returns the first cell in the last row of the main document table defined by the [MainTable](#) property. The *Footer* property is read-only and accessible only at runtime.

See also:

[Header Property](#)

[MainTable Property](#)

[TRenderCell Class](#)

2.3.2.2 Header

`property` Header: [TRenderCell](#);

Description

The *Header* property defines the header for each page of the document. As a matter of fact, this property returns the first cell in the first row of the main document table defined by the [MainTable](#) property. The *Header* property is read-only and accessible only at runtime.

See also:

[Footer Property](#)

[MainTable Property](#)

[TRenderCell Class](#)

2.3.2.3 MainTable

property MainTable: [TRenderTable](#);

Description

Technically, all the document is represented as a one-column table. The first row is the document *header*, the last is the *footer*, and all the intervening rows are document *sections*. The *MainTable* property defines the main table of the document. Through this property you can work with an entire document in the same way as with a simple table. The *MainTable* property is read-only and accessible only at runtime.

See also:

[Footer Property](#)

[Header Property](#)

[TRenderTable Class](#)

2.3.2.4 Section

`property` Section[Index: **Integer**]: [TRenderCell](#);

Description

Technically, all the document is represented as a one-column table. The first row is the document *header*, the last is the *footer*, and all the intervening rows are document *sections*. The *Section* property is an array of all the document sections. You can access them by index using this property. As a matter of fact, the *Section[Index]* returns the first cell in the *Index+1* row of the main document table defined by the [MainTable](#) property. Each section begins from the new page, so you can use sections to manually break your document to pages. The Sections property is read-only and accessible only at runtime.

See also:

[Footer](#)

[Header](#)

[MainTable](#)

[TRenderCell Class](#)


2.3.2.5 Width

`property Width: Integer;`

Description

The *Width* property returns the width of the work area in points (1/72 inches). This property is accessible only at runtime.

2.3.3 Methods

 Key methods

[SetMargins](#)

2.3.3.1 SetMargins

```
procedure SetMargins(left, top, right, bottom: Integer);
```

Description

Use this method to set the document margins in points (1/72 inches).

2.4 TQuickPdfPageInfo

2.4.1 TQuickPdfPageInfo Reference

Unit


[QuickPdf](#)

Description

The *TQuickPDFContentsItem* class contains all the properties needed to customize a document page size and layout.

2.4.2 Properties

▶ Run-time only

 Key properties

[Height](#)
[MarginBottom](#)
[MarginLeft](#)
[MarginRight](#)
[MarginTop](#)
[Size](#)
[Width](#)

2.4.2.1 Height

`property Height: Integer;`

Description

The *Height* property defines the page height in points (1/72 inches).

See also:

[Size](#)

[Width](#)

2.4.2.2 MarginBottom

property MarginBottom: **Integer**;

Description

Use this property to define a height of the bottom margin of the document pages. A value of the *MarginBottom* property is measured in points (1/72 inches).

See also:

[MarginBottom](#)

[MarginLeft](#)

[MarginRight](#)

2.4.2.3 MarginLeft

`property` MarginLeft: **Integer**;

Description

Use this property to define a width of the left margin of the document pages. A value of the *MarginLeft* property is measured in points (1/72 inches).

See also:

[MarginBottom](#)

[MarginRight](#)

[MarginTop](#)

2.4.2.4 MarginRight

`property` MarginRight: **Integer**;

Description

Use this property to define a width of the right margin of the document pages. A value of the *MarginRight* property is measured in points (1/72 inches).

See also:

[MarginBottom](#)

[MarginLeft](#)

[MarginTop](#)

2.4.2.5 MarginTop

`property` MarginTop: **Integer**;

Description

Use this property to define a height of the top margin of the document pages. A value of the *MarginTop* property is measured in points (1/72 inches).

See also:

[MarginBottom](#)

[MarginLeft](#)

[MarginRight](#)

2.4.2.6 Size

property Size: TQuickPdfPageSize;

type TQuickPdfPageSize = (psCustom, psA4, psLetter, psLegal);

Description

Use this property to define standard page size for the document. The following page sizes are available:

psA4 (8.27" X 11.69")

Letter (8.5" X 11")

Legal (8.5" X 14")

The *Size* is set to *psCustom* if the page size differs from a standard page size.

2.4.2.7 Width

`property Width: Integer;`

Description

The *Width* property defines the page width in points (1/72 inches).

See also:

[Height](#)

[Size](#)

2.5 TRenderAtom

2.5.1 TRenderAtom Reference

Unit


[QPDFRender](#)

Description

The *TRenderAtom* class is the basic class for all the PDF objects available in the suite. This class contains most common properties, such as width and height.

2.5.2 Properties

▶ Run-time only

 Key properties

- ▶ [Height](#)
- ▶ [Width](#)
- [BgColor](#)
- [LinkName](#)
- [LinkTarget](#)

2.5.2.1 BgColor

`property BgColor: Integer;`

Description

The *BgColor* property defines a background color for the object.

See also:

[Height](#)

2.5.2.2 Height

`property Height: Integer;`

Description

The *Height* property returns the calculated height of the object in points (1/72 inches). This property is read-only and accessible only at runtime.

See also:

[Width](#)

2.5.2.3 LinkName

`property LinkName: String;`

Description

The *LinkName* property is intended to define a link name in the document. To create a link to the current object from any other object:

- 1) set a value of this property for the current object;
- 2) set a value of the *LinkTarget* property for the source object to a value of the *LinkName* property for the current object.

[Example](#)

See also:

[Height](#)

2.5.2.4 LinkTarget

`property LinkTarget: String;`

Description

The *LinkTarget* property is intended to define a link target for the object. To create a link from the current object to any other object:

- 1) set a value of the *LinkName* property for the destination object;
- 2) set a value of the *LinkTarget* property for the current object to a value of the *LinkName* property for the destination object.

[Example](#)

See also:

[Height](#)

2.5.2.5 Width

`property Width: Integer;`

Description


The *Width* property returns the calculated width of the object in points (1/72 inches). This property is read-only and accessible only at runtime.

See also:

[Height](#)

2.5.3 Methods

▶ Run-time only

 Key properties

[Create](#)

2.5.3.1 Create

constructor `Create(_Width: Integer); overload;`

Description

Use this method to create new instances of the [TRenderAtom](#) class. The `_Width` parameter defines a width of the object in points (1/72 inches).

2.6 TRenderCell

2.6.1 TRenderCell Reference

Unit

[QPDFRender](#)

Description

The *TRenderCell* is a class representing a table cell in the PDF document. It contains all the methods and properties needed to manage table cells. The *TRenderCell* class is a [TRenderAtom](#) descendant.


See also:

[TRenderRow Class](#)

[TRenderTable Class](#)

2.6.2 Properties

▶ Run-time only

 Key properties

[BorderBottom](#)

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

[Indent](#)

[Padding](#)

2.6.2.1 BorderBottom

`property` BorderBottom: **Integer**;

Description

The *BorderBottom* property defines a thickness of the bottom border of the cell in points (1/72 inches). To define a one-pixel thickness of the border, set this property to 0. Set it to -1 to make the border invisible. By default it is set to 0.

See also:

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

2.6.2.2 BorderLeft

property BorderLeft: **Integer**;

Description

The *BorderLeft* property defines a thickness of the left border of the cell in points (1/72 inches). To define a one-pixel thickness of the border, set this property to 0. Set it to -1 to make the border invisible. By default it is set to 0.

See also:

[BorderBottom](#)

[BorderRight](#)

[BorderTop](#)

2.6.2.3 BorderRight

property BorderRight: **Integer**;

Description

The *BorderRight* property defines a thickness of the right border of the cell in points (1/72 inches). To define a one-pixel thickness of the border, set this property to 0. Set it to -1 to make the border invisible. By default it is set to 0.

See also:

[BorderBottom](#)

[BorderLeft](#)

[BorderTop](#)

2.6.2.4 BorderTop

property BorderTop: **Integer**;

Description

The *BorderTop* property defines a thickness of the top border of the cell in points (1/72 inches). To define a one-pixel thickness of the border, set this property to 0. Set it to -1 to make the border invisible. By default it is set to 0.

See also:

[BorderBottom](#)

[BorderLeft](#)

[BorderRight](#)

2.6.2.5 Indent

`property Indent: Integer;`

Description

The *Indent* property defines an indentation interval for the first row of the cell in points (1/72 inches). By default it is set to 0.

See also:

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

2.6.2.6 Padding

property `Padding: TRect;`

Description

The *Padding* property defines cell padding intervals in points (1/72 inches). Use this property to customize left, right, top, and bottom padding intervals separately, or at once using the `Rect` function. If any of padding intervals is set to -1, then this interval would be inherited from the parent table.


See also:

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

2.6.3 Methods

 Key methods

[AddItem](#)
[AddParagraph](#)
[AddText](#)
[AddTextItem](#)
[InternalWidth](#)

2.6.3.1 AddItem

```
procedure AddItem(X, Y: Integer; Item: TRenderAtom);
```

Description

The *AddItem* method places the Item object to the current cell by specified coordinates. Use this method to place objects (tables, images, words, etc.) to a definite place in the cell.

Note: The cell becomes solid if any coordinate differs from 0. A solid cell cannot be split into pages, and no word wrapping is available.

See also:

[AddParagraph](#)

[AddText](#)

[AddTextItem](#)

[TRenderAtom Class](#)

2.6.3.2 AddParagraph

function AddParagraph: [TRenderCell](#);

Description

Use this method to add a paragraph to a cell. Technically, if the cell has no paragraphs, this method creates a table within the cell and returns the first cell in the first row of the created table. If the cell already has paragraphs, the method adds a row to the inner table and returns the first cell in its last row.

Note: If you want to add a mixed content to a cell, always use *AddParagraph* before each new object, i.e. if you want to add two tables and a text to the table cell, use the following code:

```
Cell.AddParagraph;  
Cell.AddTextItem(Table1);  
Cell.AddParagraph;  
Cell.AddText('Text', Font, TextAlignment);  
Cell.AddParagraph;  
Cell.AddTextItem(Table2);
```

If you will skip the first row, then the second *AddParagraph* will create a new row in the Table1 table and the document appearance will become incorrect. So be careful when using mixed content in a single cell.

See also:

[AddItem](#)

[AddText](#)

[AddTextItem](#)

2.6.3.3 AddText

```
procedure AddText(_Text: WideString; _Font: TFont; _Align: TRenderTextAlign = rtaLeft
```

Description

Use this method to add a text to the last paragraph of the cell. The *_Font* parameter defines a text font, the *_Align* parameter defines a text alignment. The *_Link* parameter defines a target link for the added text. For more information about linking see the [TRenderAtom.LinkName](#) and the [TRenderAtom.LinkTarget](#) topics.

See also:

[AddItem](#)

[AddParagraph](#)

[AddTextItem](#)

[TRenderAtom Class](#)

[TRenderAtom.LinkName](#)

[TRenderAtom.LinkTarget](#)

[TRenderTextAlign Type](#)

2.6.3.4 AddTextItem

```
procedure AddTextItem(_Item: TRenderAtom);
```

Description

Use this method to add any *TRenderAtom* object (or its descendant) to the last paragraph of the cell as a text word. This object would be processed by the laying out system as a part of text.

See also:

[AddItem](#)

[AddParagraph](#)

[AddText](#)

[TRenderAtom Class](#)

2.6.3.5 InternalWidth

```
function InternalWidth: Integer;
```

Description

Use this function to collect an internal width of the cell - a width of a cell work area excluding padding intervals.

See also:

[Width](#)

2.7 TRenderImage

2.7.1 TRenderImage Reference


Unit

[QPDFRender](#)

Description

The *TRenderImage* class represents an image in a PDF document. Use it to add your images to documents. This class is a [TRenderAtom](#) descendant.

2.7.2 Methods

 Key methods

[Create](#)

2.7.2.1 Create

```
constructor Create(_graphic: TGraphic; _Raster: Boolean = false); overload;  
constructor Create(_Width: Integer; _graphic: TGraphic; _Raster: Boolean = false); ov  
constructor Create(_Width, _Height: Integer; _graphic: TGraphic; _Raster: Boolean = fa
```

Description

Use this method to create new instances of the [TRenderImage](#) class. The *_graphic* parameter is a *TGraphic* object containing an image you want to add. If the *_Raster* parameter is set to *True*, then any JPEG or meta images would be converted to bitmap images. You can also define the image size with *_Width* and *_Height* parameters. If only the *_Width* parameter is set, then the image would be scaled automatically.

2.8 TRenderRow

2.8.1 TRenderRow Reference

Unit

[QPDFRender](#)

Description

The *TRenderRow* class represents a table row. This class is a collection of the [TRenderCell](#) objects. Use the [Cell](#) property to access these objects by their indices. This class is a [TRenderAtom](#) descendant.

See also:

[TRenderCell Class](#)

[TRenderTable Class](#)

2.8.2 Properties

▶ Run-time only  Key properties

▶ [Cell](#)

▶ [CellCount](#)

2.8.2.1 Cell

`property Cell[Index: Integer]: TRenderCell;`

Description

Use the *Cell* property to access the row cells by *Index*. this property is read-only and accessible only at runtime.

See also:

[CellCount](#)

2.8.2.2 CellCount

`property CellCount: Integer;`

Description

This property returns an amount of elements in the [Cell](#) array. This property is read-only and accessible only at runtime.

See also:

[Cell](#)

2.9 TRenderSequence

2.9.1 TRenderSequence Reference


Unit

[QPDFRender](#)

Description

The *TRenderSequence* class represents a sequence of different objects ([TRenderAtom](#) descendants). This class can be used to place a sequence of objects with fixed width and height by defined coordinates. This class is a [TRenderAtom](#) descendant.

2.9.2 Methods

 Key methods

[Create](#)
[AddItem](#)
[AddText](#)
[NewLine](#)

2.9.2.1 AddItem

```
procedure AddItem(_Item: TRenderAtom);
```

Description

Use this method to add items to a sequence.

See also:

[AddText](#)

[NewLine](#)

2.9.2.2 AddText

```
procedure AddText(_Text: WideString; _Font: TFont; _Link: String = '');
```

Description

Use this method to add a text to a sequence. The *_Font* parameter defines a text font. The *_Link* parameter defines a target link for the added text. For more information about linking see the [TRenderAtom.LinkName](#) and the [TRenderAtom.LinkTarget](#) topics.

See also:

[AddItem](#)

[NewLine](#)

2.9.2.3 Create

constructor `Create(_Text: WideString; _Font: TFont; _Align: TRenderTextAlign = rtaLeft)`

Description

Use this method to create a new instance of the *TRenderSequence* class. The *_Text* parameter defines an initial text in the sequence; this parameter can be set to an empty string if you create a sequence of non-textual objects. The *_Font* parameter defines a text font, the *_Align* parameter defines a text alignment. The *_Link* parameter defines a target link for the added text. For more information about linking see the [TRenderAtom.LinkName](#) and the [TRenderAtom.LinkTarget](#) topics.

2.9.2.4 NewLine

```
procedure NewLine;
```

Description

This method inserts line break to a sequence.

See also:

[AddItem](#)

[AddText](#)

2.10 TRenderTable

2.10.1 TRenderTable Reference

Unit


[QPDFRender](#)

Description

The *TRenderTable* represents a table in the PDF document. This class contains all the methods and properties needed to manage table rows and cells.

2.10.2 Properties

▶ Run-time only

 Key properties

- ▶ [Cell](#)
- ▶ [RowCount](#)
- ▶ [Rows](#)
- ▶ [Border](#)
- ▶ [HasFooter](#)
- ▶ [HasHeader](#)
- ▶ [Padding](#)

2.10.2.1 Border

`property` Border: **Integer**;

Description

The *Border* property defines a thickness of the border for the table in points (1/72 inches). To define a one-pixel thickness of the border, set this property to 0. Set it to -1 to make the border invisible. By default it is set to 0.

See also:

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

2.10.2.2 Cell

`property Cell[x,y: Integer]: TRenderCell;`

Description

Use the *Cell* property to access table cells by their coordinates. This property is read-only and accessible only at runtime.

See also:

[Rows](#)

[TRenderCell](#)

2.10.2.3 HasFooter

`property HasFooter: Boolean;`

Description

If this property is set to *True*, then the first row of the table would be processed as a table footer. This row would be copied to each page where the table is located.

See also:

[HasFooter](#)

2.10.2.4 HasHeader

`property HasHeader: Boolean;`

Description

If this property is set to *True*, then the first row of the table would be processed as a table header. This row would be copied to each page where the table is situated.

See also:

[HasFooter](#)

2.10.2.5 Padding

property `Padding: TRect;`

Description

The *Padding* property defines padding intervals for the table in points (1/72 inches). Use this property to customize left, right, top, and bottom padding intervals separately, or at once using the `Rect` function. By default these parameters are set to 0.

See also:

[BorderLeft](#)

[BorderRight](#)

[BorderTop](#)

2.10.2.6 RowCount

property RowCount: **Integer**;

Description

This property returns an amount of items in the [Rows](#) array. This property is read-only and accessible only at runtime.

See also:

[Rows](#)

2.10.2.7 Rows

property Rows[Index: **Integer**]: [TRenderRow](#);

Description


Use this property to access the table rows by *Index*. The *Rows* property is read-only and accessible only at runtime.

See also:

[Cell](#)

[RowCount](#)

2.10.3 Methods

 Key methods

[Create](#)

[AddRow](#)

[LastRow](#)

2.10.3.1 Create

constructor `Create(_Widths: array of Integer); overload;`

Description

Use this method to create new instances of the [TRenderTable](#) class. The `_Width` parameter set widths of table columns in points (1/72 inches).

2.10.3.2 AddRow

`function` AddRow: [TRenderRow](#);

Description

This method adds a new row in the table and returns it as a result of execution.

See also:

[LastRow](#)

[TRenderRow](#)

2.10.3.3 LastRow

`function` LastRow: [TRenderRow](#);

Description

This method returns the last row of the table.

See also:

[AddRow](#)

[TRenderRow](#)

2.11 TRenderWord

2.11.1 TRenderWord Reference


Unit

[QPDFRender](#)

Description

The *TRenderWord* class represent a single word in a document. This word cannot be wrapped. Use this class to create unbreakable sentences or single words. This class is a [TRenderAtom](#) descendant.

2.11.2 Methods

 Key methods

[Create](#)

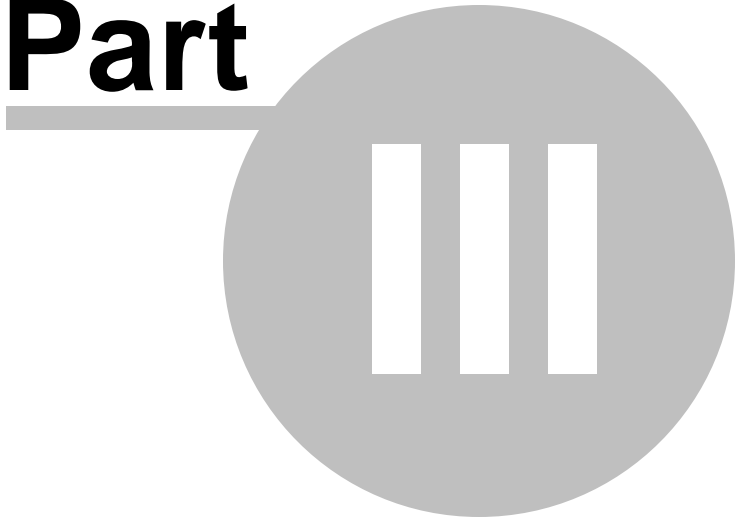
2.11.2.1 Create

constructor `Create(_Word: WideString; _Font: TFont);`

Description

Use this method to create a new instance on the [TRenderWord](#) class. The *_Word* parameter defines a text, and a *_Font* parameter defines a text font in the document.

Part



3 Units

3.1 QuickPdf unit

Components

[TQuickPDF](#)

Classes

[TQuickPDFDocument](#)

[TQuickPDFContentsItem](#)

3.2 QPDFRender unit

Classes

[**TRenderAtom**](#)

[TRenderCell](#)

[TRenderRow](#)

[TRenderTable](#)

[TRenderWord](#)

[TRenderSequence](#)

[TRenderImage](#)

Types

[**TRenderTextAlign**](#)

3.2.1 TRenderTextAlign type

Unit[QPDFRender](#)**Declaration**

```
type TRenderTextAlign = (rtaLeft, rtaRight, rtaCenter, rtaJustify, rtaTerminal);
```

Description

This type defines the text alignment. The following values are available:

Value	Alignment
<i>rtaLeft</i>	Text aligned to left
<i>rtaRight</i>	Text aligned to right
<i>rtaCenter</i>	Centered text
<i>rtaJustify</i>	Justified text
<i>rtaTerminal</i>	Spaces are processed as symbols. Use this alignment type to print a space-formatted text

Part



4 Appendix

4.1 LinkName and LinkTarget Example

This example displays the usage of the **LinkName** and the **LinkTarget** properties of the [TRenderAtom](#) class and its descendants. The following code creates a link from the 'Click Here' text to the 'Link Position' text in the document footer, and a link from the document footer to the *EMS Software Development* site.

```
procedure TForm1.Button1Click(Sender: TObject);
var
  LinkPosition: TRenderWord;
begin
  LinkPosition := TRenderWord.Create('Link Position', TFont.Create());
  LinkPosition.LinkName := 'position';
  QuickPDF1.Document.Footer.AddItem(0, 0, LinkPosition);
  QuickPDF1.Document.Section[0].AddText('Click Here', TFont.Create(), rtaLeft, 'position');
  QuickPDF1.Document.Footer.LinkTarget := 'http://www.sqlmanager.net/';
  QuickPDF1.GenerateToFile;
end;
```

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