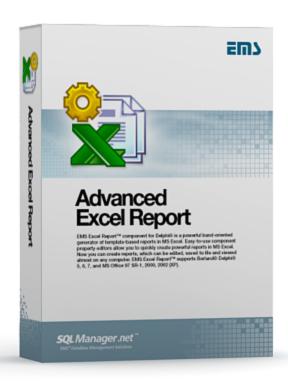


Advanced Excel Report for RAD Studio User's Manual



Advanced Excel Report for RAD Studio User's Manual

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Part

1 Welcome to Advanced Excel Report for RAD Studio!

1.1 Overview

EMS Advanced Excel Report for RAD Studio is a powerful band-oriented generator of template-based reports in MS Excel. Easy-to-use component property editors allow you to quickly create powerful reports in MS Excel. Now you can create reports, which can be edited, saved to file and viewed almost on any computer.

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

Key features

- Creating report templates directly in MS Excel
- Saving template as external *.xls file or as *.dfm (.exe) file
- Band-oriented report generator
- Any data source can be used
- Creation of master-detail reports and reports with grouping
- Full integration with Delphi IDE
- High productivity even on slow computers
- Detailed help system and a demo application for quicker mastering the product
- Powerful component and property editors which allow you to set many report parameters at the design-time easily

Product information

Homepage https://www.sqlmanager.net/products/tools/excelreport

Support Ticket System https://www.sqlmanager.net/support

Register on-line https://www.sqlmanager.net/products/tools/excelreport/buy

1.2 What's new

Version Release date

Advanced Excel Report for RAD Studio 2.0.4

December 4, 2023

What's new in Advanced Excel Report for RAD Studio?

- Support for RAD Studio 12 Athens implemented.
- Fixed paths for 32-bit Clang compiler in RAD Studio options.

See also:

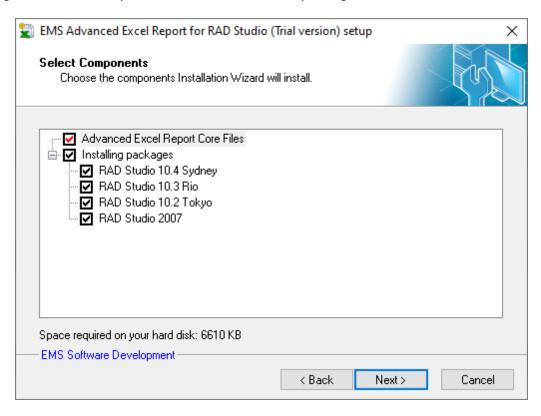
Version history

1.3 Installation

To install the trial version of Advanced Excel Report for RAD Studio onto your system:

- download the distribution package of Advanced Excel Report for RAD Studio from the <u>download page</u> 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.



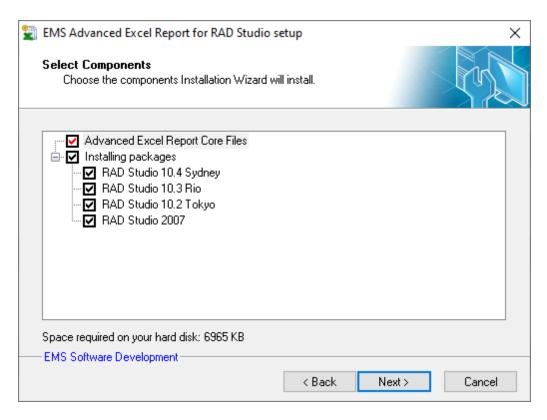
When you are done, you can finish installation of the **trial version** of **Advanced Excel Report for RAD Studio**.

To install the full version of Advanced Excel Report for RAD Studio onto your system:

- download the distribution package of Advanced Excel Report for RAD Studio from the <u>download page</u> 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 <u>details</u> 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 Excel Report for RAD Studio**.

Note: If the above given instructions have been insufficient for successful installation of the component, 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 <u>Customer Care Center</u>, 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 Excel Report for RAD Studio Full version (with sources)*	Register Now!
Advanced Excel Report for RAD Studio Trial version	<u>Download Now!</u>

*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 Excel Report

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

- receive the notification letter from **Digital River** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter while <u>installing</u> the **full version** of the product.

See also:

Registration

1.6 Version history

Product name	Version	Release date
Advanced Excel Report for RAD Studio	Version 2.0.3	September 28, 2021
Advanced Excel Report for RAD Studio	Version 2.0.2	June 10, 2020
Advanced Excel Report for RAD Studio	Version 2.0.1	February 15, 2019
Advanced Excel Report for RAD Studio	Version 2.0	June 30, 2017
Advanced Excel Report for RAD Studio	Version 1.9	October 10, 2011
Advanced Excel Report for RAD Studio	Version 1.8	February 20, 2011
Advanced Excel Report for RAD Studio	Version 1.7	December 2, 2009
Advanced Excel Report for RAD Studio	Version 1.6	September 11, 2008
Advanced Excel Report for RAD Studio	Version 1.5	September 21, 2007
Advanced Excel Report for RAD Studio	Version 1.4	April 1, 2006
ExcelReport	Version 1.3	April 6, 2005
ExcelReport	Version 1.2	January 21, 2004
ExcelReport	Version 1.1	April 22, 2003
ExcelReport	Version 1.0	September 16, 2002

Full version history is available at http://www.sqlmanager.net/products/tools/excelreport/news

Version 2.0.3

- Support of RAD Studio 11 Alexandria implemented.
- End of support for RAD Studio 2009 and older versions.

Version 2.0.2

• Support of RAD Studio 10.4 Sydney added

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.
- Support for C++Builder 2007 and higher has been added.
- Support of several subreports on one sheet in the report has been implemented.
- The Access Violation error occurred in reports with grouping bands. Fixed now.
- The error of processing data beginning with the "=" sign has been fixed.
- Some other minor improvements and bug-fixes.

Version 1.9

Added support of Embarcadero RAD Studio XE2

Version 1.8

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

Version 1.7

- Support of BDS 2010 is added
- Minor improvements and bug-fixes

Version 1.6

- Support of BDS 2009 is added
- Minor improvements and bug-fixes

Version 1.5

- Support of BDS 2007 is added
- Support of MS Office 2007 is added
- Minor improvements and bug-fixes

Version 1.4

- Support of BDS 2006 is added
- Minor improvements and bug-fixes

Version 1.3

- Quick creation of report templates. Added the corresponding item to the component's context menu
- Support of MS Office 2003 is added
- If a chart was present in a template, in the result report the chart was duplicated several times. The bug is fixed
- If a template file was specified as a network name like \\computer\folder\file.xls, the program worked incorrectly. Fixed now
- Minor improvements and bug-fixes

Version 1.2

- We have added a new event OnGetReportFileName which allows you to specify the name of the temporary file generated for display in Excel. Use it to make the names of generated files more readable for the user
- Sometimes some characters were interpreted as field sign if MS Excel template contained non-English text
- Automatic Band determination worked incorrectly in some cases
- Minor improvements and bug-fixes

Version 1.1

- Added the new SubReport property which allows you to create multisheet reports
- A possibility to use the Unicode strings in the template is impelemented
- Now the rightmost report column is built correctly with more than A..Z columns in the template
- A nonvoid cell with an empty string does not appear in the top right corner any more
- An assertion 'Wrong "Num" parameter (EXLReportCopyMngr line 627)' appeared occasionally on building reports with groups. Now it doesn't
- Now you can use the TClientDataSet component linked to the master dataset through a DataSetField property as a detail dataset
- Progress window has changed the Position property from poDesktopCenter to poMainFormCenter as it was incorrectly displayed on computers with dual monitors
- Minor improvements and bug-fixes

Version 1.0 (First public release)

- Creating report templates directly in MS Excel
- Possibility of saving template as in the external *.xls file, as in the *.dfm(.exe) file
- Borland Delphi 5, 6, 7, and MS Office 97 SR-1, 2000, 2002 (XP) are supported
- Band-oriented report generator
- Any data source can be used

- Possibility of creating master-detail reports and reports with grouping
- Full integration with Delphi IDE
- High productiveness even on slow computers
- Detailed help system and a demo application for quicker mastering the product
- Powerful component and property editors, which allow you to set many report parameters at the design-time easily
- Other useful features

See also:

What's new

1.7 Other EMS Products

Quick navigation



MySQL



Microsoft SQL

Server











MySQL



SQL Management Studio for MySQL

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!



<u>SQL Manager for MySQL</u> 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.



Data Comparer for MySQL

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

Scroll to top

Microsoft SQL Server



SQL Management Studio for SQL Server

EMS SQL Management Studio for SQL Server 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 SQL Server

Perform backup and restore, log shipping and many other regular maintenance tasks on the whole set of SQL Servers in your company.



SQL Administrator for SQL Server

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



SQL Manager for SQL Server

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 SQL Server

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 SQL Server

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



Data Pump for SQL Server

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to Microsoft® SQL Server $^{\text{TM}}$.



Data Generator for SQL Server

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



DB Comparer for SQL Server

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



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.



SQL Query for SQL Server

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 SQL Server

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

Scroll to top

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

Creates backups for multiple PostgreSQL servers from a single console. You can use automatic backup tasks with advanced schedules and store them in local or remote folders or cloud storages



SQL Manager for PostgreSQL

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 PostgreSQL

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 PostgreSQL

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



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

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

Scroll to top

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.



<u>Data Pump for InterBase/Firebird</u>

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.

Scroll to top

Oracle



SQL Management Studio for Oracle

EMS SQL Management Studio for Oracle 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 Oracle

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 Oracle

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 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



<u>Data Generator for Oracle</u>

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.

Scroll to top

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

 $\label{eq:migrate} \mbox{Migrate from most popular databases (MySQL, PostgreSQL, Oracle, MySQL, InterBase/Firebird, etc.) to DB2$



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 III

2 Advanced Excel Report for RAD Studio

EMS Advanced Excel Report for RAD Studio represents a set of tools for efficient reporting.

Advanced Excel Report for RAD Studio provides a collection of the following components:

Component Brief description

<u>TEXLReport</u> Intended for creating reports in Microsoft Excel

2.1 TEXLReport component

2.1.1 TEXLReport component Reference

Unit

EXLReport

Description

The TEXLReport component is intended for creating powerful reports in MS Excel.

The basic method of the component is <u>Show</u>. To define the source of the report data use property <u>DataSet</u>. The <u>Template</u> property sets the template Excel file, defining the appearance of the result Excel report. For creating complicate master - detail reports or reports with grouping you should define the <u>Bands</u> property (unnecessary for simple reports). You may also set constant values for some report fields in the <u>Dictionary</u> property.

2.1.2 Properties

Bands
DataSet
Dictionary
FieldSign
Options
StoreInDFM
Template
TemplSheet
Title

2.1.2.1 Bands

Applies to

TEXLReport component

Declaration

property Bands: TEXLReportBands;

Description

The *Bands* property is the collection of the <u>TEXLReportBand</u> and <u>TEXLReportGroupHeaderBand</u> objects.

You can define the following bands: Title, Group Header, Master Data, Detail Header, Detail Data, Detail Footer, Group Footer, and Summary.

See also:

<u>TEXLReportBands object</u> <u>TEXLReportBand object</u>

2.1.2.2 DataSet

Applies to

TEXLReport component

Declaration

property DataSet: TDataSet;

Description

The *DataSet* property defines the source dataset component (any TDataSet descendant) which contains data for report. You can use data source different from the TDataSet, in this case you should leave the DataSet property empty, and write handler for events OnDataEof, OnDataNext, and OnDataPrior.

2.1.2.3 Dictionary

Applies to

TEXLReport component

Declaration

property Dictionary: TEXLReportDictionary;

Description

The *Dictionary* property is the collection of <u>TEXLReportField</u> objects using which you can define constant values for some of the report fields.

See also:

TEXLReportDictionary component
TEXLReportField component

2.1.2.4 FieldSign

Applies to

TEXLReport component

Declaration

property FieldSign: Char;

Description

The *FieldSign* property defines the character which denotes the field name in the template Excel file. This can be either <u>DataSet</u> field name or an arbitrary field name which value you define in the <u>OnGetFieldValue</u> event handler or which contain constant value defined by the <u>Dictionary</u> property.

The default property value is '#'. Note that if you want to use a field sign as a simple symbol, you can set two signs one after another, and they will be treated as one symbol not field sign (just as apostrophes in Delphi). The field sign is also ignored if it precedes the equality symbol ('='). This may be necessary if an error occurs on entering an Excel formula to the template cell.

See also:

Template property

2.1.2.5 Options

Applies to

TEXLReport component

Declaration

property Options: TEXLReportOptions;
TXQLOption = (xlroShowProgress, xlroTotalsAsFormula, xlroVisibleWhenError, xlroHourCu:
TXQLOptions = set of TXQLOption;

Description

Property *Options* is a set of boolean suboptions which define the common settings of the report building.

If xlroShowProgress is true, then the progress window is visible during the report building. If xlroTotalsAsFormula is false, then the result of calculating Advanced Excel Report for RAD Studio function (SUM, AVG, etc.) is only a number, otherwise it is the appropriate Excel formula.

If xlroVisibleWhenError is true, then the result file becomes visible even if an error occures during the report building.

If xlroHourCursor is true, then the cursor has hour appearance during the report building.

See also:

Title property

2.1.2.6 StoreInDFM

Applies to

TEXLReport component

Declaration

property StoreInDFM: Boolean;

Description

You can store your Excel template not only in external *.xls file, but in the form containing the Advanced Excel Report for RAD Studio component itself. In this case you don't have to define the Template property, just set StoreInDFM to true, and then the template you edit is saved to the *.dfm file of the parent component form.

See also:

Template property
EditTemplate method

2.1.2.7 Template

Applies to TEXLReport component

Declaration

property Template: String;

Description

The *Template* property defines the Excel template filename. You can set either full or relative paths to the file. This property is obligatory, except if the <u>StoreInDFM</u> property is true (in this case the template is stored in the *.dfm file of the parent component form). The template defines cell appearance for different bands and more.

Hint: To learn more about template files, see the demo application.

See also:

FieldSign property
TemplSheet property

2.1.2.8 TemplSheet

Applies to

TEXLReport component

Declaration

property TemplSheet: String;

Description

The *TempleSheet* property defines the name of the Excel template sheet, according to the template filename, set in the <u>Template</u> property of the template stored in *.dfm file (if the <u>StoreInDFM</u> property is true). If this property is not defined, then the first sheet is taken from file as a template.

See also:

Template property

2.1.2.9 Title

Applies to

TEXLReport component

Declaration

property Title: String;

Description

The *Title* property defines the header of the progress window displayed during the export process.

See also:

Options property

2.1.3 **Methods**

Key methods

EditTemplate Show

2.1.3.1 EditTemplate

Applies to

TEXLReport component

Declaration

procedure EditTemplate;

Description

The *EditTemplate* method opens the template file specified by the <u>Template</u> property, in MS Excel available for editing.

See also:

Template property

2.1.3.2 Show

Applies to

TEXLReport component

Declaration

```
procedure Show(const FileName: String = '');
```

Description

The *Show* method is the basic method of the component. It creates report and saves it to the file specified by FileName basing on the template specified by the <u>Template</u> property, or stored in the parent component form, if property <u>StoreInDFM</u> is true. If FileName is not specified, the result report is opened in the MS Excel after the report is built.

See also:

DataSet property
Template property

2.1.4 Events

Key events

OnAfterBuild
 OnBeforeBuild
 OnDataEof
 OnDataFirst
 OnDataNext
 OnDataPrior
 OnFormatCell
 OnGetFieldValue
 OnSetCellValue
 OnGetReportFileName

2.1.4.1 OnAfterBuild

Applies to

TEXLReport component

Declaration

property OnAfterBuild: TEXLReportAfterBuildEvent;
TEXLReportAfterBuildEvent = procedure(Sender: TObject; Report: ExcelWorksheet; RowCounterBuildEvent)

Description

The *OnAfterBuild* event takes place when the report is already built. Parameter Report contains properties of the result Excel worksheet. RowCount and ColCount indicate the number of rows and columns in the result file.

See also:

OnBeforeBuild event

2.1.4.2 OnBeforeBuild

Applies to

TEXLReport component

Declaration

property OnBeforeBuild: TNotifyEvent;

Description

The OnBeforeBuild event takes place before the beginning of building the report.

See also:

OnAfterBuild event

2.1.4.3 OnDataEof

Applies to

TEXLReport component

Declaration

```
property OnDataEof: TEXLReportCheckEofEvent;
TEXLReportCheckEofEvent = procedure(Sender: TObject; var Eof: Boolean) of object;
```

Description

Use the *OnDataEof* event if you build report from the data source different from the TDataSet descendant to define the condition of finishing the report building. The OnDataEof event takes place before writing each data row to the report, and checks the value of the Eof parameter. If it is true, the report building terminates.

See also:

OnDataFirst event OnDataNext event OnDataPrior event

2.1.4.4 OnDataFirst

Applies to

TEXLReport component

Declaration

property OnDataFirst: TNotifyEvent;

Description

Use the *OnDataFirst* event if you build report from the data source different from the TDataSet descendant. This event takes place before the report building starts for you to initialize the data source and set the pointer to the first record.

See also:

OnDataEof event OnDataNext event OnDataPrior event

2.1.4.5 OnDataNext

Applies to

TEXLReport component

Declaration

property OnDataNext: TNotifyEvent;

Description

Use the *OnDataNext* event if you build report from the data source different from the TDataSet descendant. This event takes place when the pointer should be moved to the next record of the data source.

See also:

OnDataFirst event OnDataPrior event

2.1.4.6 OnDataPrior

Applies to

TEXLReport component

Declaration

property OnDataPrior: TNotifyEvent;

Description

Use the *OnDataPrior* event if you build report from the data source different from the TDataSet descendant. This event takes place when the pointer should be moved to the previous record of the data source.

See also:

OnDataFirst event OnDataNext event

2.1.4.7 OnFormatCell

Applies to

TEXLReport component

Declaration

```
property OnFormatCell: TEXLReportFormatCellEvent;
TEXLReportFormatCellEvent = procedure(Sender: TObject; Band: TEXLReportBand; RowInTemple ColumnInReport: Integer; Report: ExcelWorksheet; const CellValue: OleVariant) of object
```

Description

The OnFormatCell event takes place on building a certain cell in the report.

Parameter Band is the current Advanced Excel Report for RAD Studio band. RowInTemplate shows the tempale row applied to the current cell. RowInReport and ColumnInReport indicate the position of the cell in the result file. Parameter Report contains properties of the result Excel worksheet, and CellValue is the value of the current cell.

It is necessary to consider that in contrast to the <u>OnGetFieldValue</u> and <u>OnSetCellValue</u> events, at the moment of the *OnFormatCell* rise the position of the current record in Master and Detail datasets is not defined. That means, you can't use the field values of these datasets in the event handler.

See also:

OnSetCellValue event

2.1.4.8 OnGetFieldValue

Applies to

TEXLReport component

Declaration

property OnGetFieldValue: TEXLReportGetFieldValueEvent;
TEXLReportGetFieldValueEvent = procedure(Sender: TObject; const Field: String; var ValueEvent)

Description

The OnGetFieldValue event takes place when the field name is read from the template, and not found neither in <u>Dictionary</u>, nor in datasets. According to the field name (Field parameter) you should set the cell value (output Value parameter).

See also:

OnSetCellValue event

2.1.4.9 OnGetReportFileName

Applies to

TEXLReport component

Declaration

```
property OnGetReportFileName: TEXLReportGetReportFileName;
TEXLReportGetReportFileName = procedure(Sender: TObject; var FileName: string) of object;
```

Description

The OnGetReportFileName property allows you to set the name of the temporary file generated for displaying in MS Excel. Use it to make names of the generated files more readable for user.

2.1.4.10 OnSetCellValue

Applies to

TEXLReport component

Declaration

```
property OnSetCellValue: TEXLReportSetCellValueEvent;
TEXLReportSetCellValueEvent = procedure(Sender: TObject; Band: TEXLReportBand; RowInTextColumnInReport: Integer; var CellValue: OleVariant) of object;
```

Description

The OnSetCellValue event takes place when the value of the result cell is set. According to the position of the cell you can change the cell value. Parameter Band is the current Advanced Excel Report for RAD Studio band. RowInTemplate shows the tempale row applied to the current cell. RowInReport and ColumnInReport indicate the position of the cell in the result file. Output parameter CellValue is the value of the current cell.

See also:

OnGetFieldValue event

Part IIII

3 Units

3.1 EXLReport unit

Components <u>TEXLReport</u>

3.2 EXLReportBand unit

Objects

TEXLReportBand

TEXLReport Group Header Band

TEXLReport Bands

3.2.1 TEXLReportBand object

Unit

EXLReportBand

Description

The *TEXLReportBand* object contains properties which are common for all the bands created by Advanced Excel Report for RAD Studio.

3.2.1.1 Properties

BandType

3.2.1.1.1 BandType

Applies to

TEXLReportBand object

Declaration

```
property BandType: TEXLReportBandType;
TEXLReportBandType = (xlrbtTitle, xlrbtGroupHeader, xlrbtMasterData, xlrbtDetailHeade: xlrbtDetailFooter, xlrbtGroupFooter, xlrbtSummary);
```

Description

The BandType property indicates the type of the current band.

The following band types are available: Title, Group Header, MasterData, Detail Header, Detail Data, Detail Footer, Group Footer, and Summary.

This property is read-only.

See also:

Range property

3.2.1.1.2 Range

Applies to

TEXLReportBand object

Declaration

property Range: String;

Description

The *Range* property sets the cell range of the band in the template, e.g. B2, or A1:D4, etc.

See also:

BandType property

3.2.2 TEXLReportGroupHeaderBand object

Unit

EXLReportBand

Description

The TEXLReportGroupHeaderBand object is the <u>TEXLReportBand</u> descendant. It contains properties, methods and events which allow you to work with data groups.

3.2.2.1 Properties

CaseInsensitiveCompareFieldName

<u>FieldName</u>

<u>FooterBand</u>

3.2.2.1.1 CaseInsensitiveCompare

Applies to

TEXLReportGroupHeaderBand object

Declaration

property CaseInsensitiveCompare: Boolean;

Description

If the *CaseInsensitiveCompare* property is true, then when the field values are compared for grouping records by this field, the character case is not taken into consideration.

3.2.2.1.2 FieldName

Applies to

<u>TEXLReportGroupHeaderBand</u> object

Declaration

property FieldName: String;

Description

The *FieldName* property defines the name of the field by which the records are grouped in the result Excel file. If you want to group records not by a single field value, but by the value of some expression, you can leave this property empty, and write handler for the OnCalcExpression event.

See also:

OnCalc Expression event

3.2.2.1.3 FooterBand

Applies to

TEXLReportGroupHeaderBand object

Declaration

property FooterBand: String;

Description

The FooterBand property defines the corresponding group footer by its display name.

3.2.2.2 Events

Key events

OnCalc Expression

3.2.2.2.1 OnCalcExpression

Applies to

TEXLReportGroupHeaderBand object

Declaration

property OnCalcExpression: TEXLReportCalcExpressionEvent;

TEXLReportCalcExpressionEvent = procedure(Sender: TEXLReportBand; var GroupValue: Str

Description

Use the *OnCalcExpression* event to set grouping by some expression value. This event takes place before writing each data row to the report. Data are grouped by the output parameter *GroupValue*.

See also:

FieldName property

3.2.3 TEXLReportBands object

Unit

EXLReportBand

Description

The TEXLReportBands object is the collection of <u>TEXLReportBand</u> and <u>TEXLReportGroupHeaderBand</u> objects each of which defines a data band for the result file. Use property <u>Items</u> to access certain bands, and use method <u>AddBand</u> to add a band to the collection.

3.2.3.1 Properties

3.2.3.1.1 Items

Applies to

TEXLReportBands object

Declaration

property Items[Index: Integer]: TEXLReportBand;

Description

Use the *Items* property to access the instances of the collection by Index.

See also:

TEXLReportBand object

TEXLReportGroupHeaderBand object

3.2.3.2 Methods

Key methods

AddBand

3.2.3.2.1 AddBand

Applies to

TEXLReportBands object

Declaration

function AddBand(BandType: TEXLReportBandType): TEXLReportBand;
TEXLReportBandType = (xlrbtTitle, xlrbtGroupHeader, xlrbtMasterData, xlrbtDetailHeade: xlrbtDetailFooter, xlrbtGroupFooter, xlrbtSummary);

Description

Use the AddBand method to add a band to the collection. Parameter BandType defines the type of the band.

The following band types are available: Title, Group Header, MasterData, Detail Header, Detail Data, Detail Footer, Group Footer, and Summary.

See also:

TEXLReportBand object

3.3 EXLReportDictionary unit

Objects <u>TEXLReportField</u> <u>TEXLReportDictionary</u>

3.3.1 TEXLReportField object

Unit

EXLReportDictionary

Description

The TEXLReportField object contains properties for defining a constant value for the certain report field.

3.3.1.1 Properties

FieldName
ValueAsString

3.3.1.1.1 FieldName

Applies to

TEXLReportField object

Declaration

property FieldName: String;

Description

Property *FieldName* defines the report field name for which the constant value is set (<u>ValueAsString</u> property).

See also:

ValueAsString property

3.3.1.1.2 ValueAsString

Applies to

TEXLReportField object

Declaration

property ValueAsString: String;

Description

The *ValueAsString* property defines the constant value of the field specified by the <u>FieldName</u> property.

See also:

FieldName property

3.3.2 TEXLReportDictionary object

Unit

EXLReportDictionary

Description

The *TEXLReportDictionary* object is the collection of <u>TEXLReportField</u> objects each of which defines a constant value for the certain report field. To access the instances of the collection, use property <u>Items</u>; to add a field with a constant value, use method <u>Add</u>.

3.3.2.1 Properties

3.3.2.1.1 Items

Applies to

TEXLReportDictionary object

Declaration

property Items[Index: Integer]: TEXLReportField;

Description

Use *Items* to access the instances of the collection by Index.

See also:

Add method

3.3.2.2 Methods

Key methods

Add FieldByName

<u>FindField</u>

3.3.2.2.1 Add

Applies to

TEXLReportDictionary object

Declaration

function Add: TEXLReportField;

Description

Use method Add to add a $\underline{\mathsf{TEXLReportField}}$ object to the collection.

See also:

Items property

3.3.2.2.2 FieldByName

Applies to

TEXLReportDictionary object

Declaration

function FieldByName(const FieldName: String): TEXLReportField;

Description

As each <u>TEXLReportField</u> object has <u>FieldName</u> property, you can access this object by its *FieldName*, using the *FieldByName* method.

See also:

FindField method

3.3.2.2.3 FindField

Applies to

TEXLReportDictionary object

Declaration

function FindField(const FieldName: String): TEXLReportField;

Description

The *FindField* method allows you to find a field in the collection by its <u>FieldName</u>. It works just like the <u>FieldByName</u> method, but it returns nil in case of unsuccessful execution, when <u>FieldByName</u> raises exception.

See also:

FieldByName method

Part

4 Appendix

4.1 On After Build event - Example

```
procedure TReportContainer.SheetPropAfterBuild(Sender: TObject;
  Report: _Worksheet; RowCount, ColCount: Integer);
var
  XLApp: Variant;
begin
  Report.Name := 'Sheet name';
  XLApp := Report.Application;
  XLApp.Run('UserMacro'); // Not to set all the procedure parameters.end;
```

4.2 OnBeforeBuild event - Example

```
procedure TReportContainer.GrouppingBeforeBuild(Sender: TObject);
begin
  // Add an index for the groupping
  try
    MasterTable.Close;
    MasterTable.Exclusive := True;
    MasterTable.Open;
    MasterTable.AddIndex('ByDate', 'Event_date; Event_name', [ixCaseInsensitive]);
  except
  end;
  MasterTable.Close;
  MasterTable.Exclusive := False;
  MasterTable.Open;
    MasterTable.IndexName := 'ByDate';
  except
  end;
end;
```

4.3 User data events - Example

```
procedure TReportContainer.UserDataDataEof(Sender: TObject;
  var Eof: Boolean);
begin
  Eof := FCounter > 20;
procedure TReportContainer.UserDataDataFirst(Sender: TObject);
begin
  Randomize;
  FCounter := 1;
end;
procedure TReportContainer.UserDataDataNext(Sender: TObject);
begin
  Inc(FCounter);
end;
procedure TReportContainer.UserDataDataPrior(Sender: TObject);
  Dec(FCounter);
end;
```

4.4 OnFormatCell event - Example

```
procedure TReportContainer.FormatProFormatCell(Sender: TObject;
  Band: TEXLReportBand; RowInTemplate, RowInReport, ColumnInReport: Integer;
  Report: _Worksheet; const CellValue: OleVariant);
  R1, R2: String;
begin
  if (Band.BandType = xlrbtMasterData) and (ColumnInReport = 4) then
  begin
    R1 := 'A' + IntToStr(RowInReport);
    R2 := 'D' + IntToStr(RowInReport);
    if CellValue >= 45000 then
    begin
      Report.Range[R2, R2].Font.Color := clRed;
      Report.Range[R2, R2].Font.Bold := True;
    else if CellValue <= 20000 then</pre>
      Report.Range[R1, R2].Font.Color := clWhite;
      Report.Range[R1, R2].Interior.Color := clRed;
    end;
  end;
end;
```

4.5 OnGetFieldValue event - Example

```
procedure TReportContainer.UserDataGetFieldValue(Sender: TObject;
  const Field: String; var Value: OleVariant);
begin
  if AnsiCompareText(Field, 'No') = 0 then
    Value := FCounter
  else if AnsiCompareText(Field, 'String') = 0 then
    Value := Format('This is the string %d.', [FCounter])
  else if AnsiCompareText(Field, 'Number') = 0 then
    Value := Random(100);
end;
```

4.6 OnSetCellValue event - Example

```
procedure TReportContainer.CellDataSetCellValue(Sender: TObject;
   Band: TEXLReportBand; RowInTemplate, RowInReport, ColumnInReport: Integer;
   var CellValue: OleVariant);
begin
   if Band.BandType = xlrbtMasterData then
        CellValue := AnsiUpperCase(CellValue);
end;
```

4.7 OnCalcExpression event - Example

```
procedure TReportContainer.GrouppingBandsGroupHeader1CalcExpression(
    Sender: TEXLReportBand; var GroupValue: String);
begin
    GroupValue := FormatDateTime('yyyymm', MasterTable.FieldByName('Event_date').AsDate'end;
```

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