R:WEB Reports 11

Help Manual

R:WEB Reports 11

Manual

by R:BASE Technologies, Inc.

The innovative tool to publish your R:BASE reports online!

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Part I

1 Introduction

1.1 Introducing R:WEB Reports 11

R:WEB Reports is an innovative tool to publish your R:BASE reports online without R:BASE being installed on your corporate network or web server. Now, all R:BASE users have the option to publish their custom reports online using their own favorite web development tool such as Java, ASP, ASP.NET C#, ASP.NET VB, CFML/MX, ColdFusion, JSP, Perl, PHP, or Servlets.

R:WEB Reports uses its own database connection method to access the R:BASE reports within the database files. The database connection can be handled with or without defining an ODBC System DSN.

R:WEB Reports offers two setup types for web applications; console and modular. The console type is a stand-alone application executable, similar to previous R:WEB Reports releases. The new modular setup is composed of three applications called the Request Creator, Request Broker Service, and Worker. The modular setup significantly reduces load times (loading from disk and uncompressing in-memory of each report request. The modular setup also protects the server from running out of memory if there is a high number of requests. The idea is to cache a number of instances of R:WEB Reports, thus setting a limit to memory used. Either or both setup types can be used on a Web Server environment.

R:WEB Reports supports the ability to use R:BASE plugins in the reports, such as R:Charts. Once R:Charts chart files are designed and fully integrated in your R:BASE reports, the chart-based report may be deployed within the web application using R:WEB Reports.

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First Edition

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R:WEB Reports 11
Single Web Server License

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   - To have operating system, workstations, and local network installed and functional. RBTI will NOT be responsible for resolving issues not pertaining to the Program.
   - Our support staff deals with advanced issues, therefore the person contacting RBTI for assistance should be the system administrator or have other R:BASE/SQL experience and be able to understand and implement the advice given.

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   - To provide quality assistance in a timely manner to aid Licensee in the installation of the product within 30 days of the date of purchase.
   - To provide a reasonable solution for any resolvable issue. Not all issues are resolvable, and therefore we will acknowledge the existence of known issues or "bugs" which we are presently aware of, that have no reasonable work-around.

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1.4   Complimentary Support

30 DAY LIMITED COMPLIMENTARY TECHNICAL SUPPORT

A. LICENSEE RESPONSIBILITIES.

1. To help us expedite the process and provide high quality assistance, the licensee must provide proof of purchase. Proof of purchase is defined as the following: registration number, purchase date, version and build number, and company or individual to which product is registered.

2. To have operating system, workstations, and local network installed and functional. R:BASE Technologies will NOT be responsible for resolving issues not pertaining to the software product.

3. Our support staff deals with advanced issues, therefore the person contacting R:BASE Technologies for assistance should be the system administrator or have other R:BASE/SQL experience and be able to understand and implement the advice given.

4. To have the database, application, and command files being reviewed, safely backed-up before attempting assistance. R:BASE Technologies will NOT be held responsible for lost data or corruption as a result of advice given.

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1. To provide quality assistance in a timely manner to aid in the installation of the product and elementary conversion of database, application, and command files within 30 days of the date of purchase.

2. To provide a reasonable solution for any solvable issue. Not all issues may be solved, and therefore we will acknowledge the existence of known issues, or bugs, which we are presently aware of, that have no reasonable work-around.

R:BASE Technologies reserves the right to limit the amount of support time allotted to a maximum of 2 HOURS during the 30-Day Complimentary Technical Support period. We also reserve the right to limit the quantity of calls from a particular licensee to 30 MINUTES in a single day. Issues are dealt with on a case-by-case basis, and are handled at the discretion of the support agent assigned to the case. Complimentary Support is limited to INSTALLATION and ELEMENTARY CONVERSION related issues ONLY. Our support hours are Monday through Friday, from 10:00 AM to 6:00 PM (EST).

For application, design, or advanced conversion assistance, R:BASE Technologies offers Technical Support Plans of various types to meet your needs. Please visit the Support page at https://www.rbase.com/support for details and pricing.

Part II
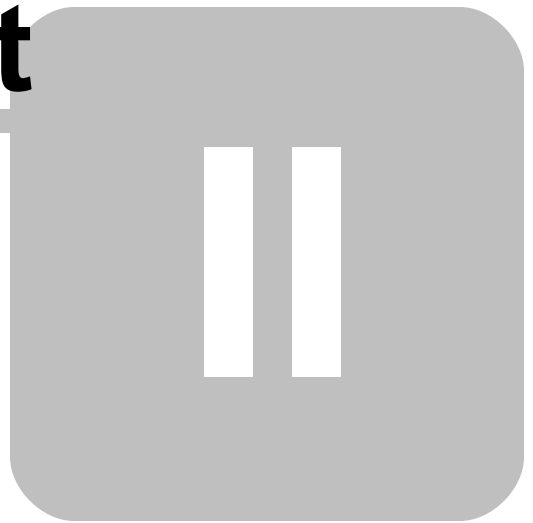
2   Installation

2.1   System Requirements

The following system specifications are recommended for the optimal use of R:BASE and R:BASE-related software.

Workstation Hardware

- 2-Core 2GHz+ CPU
- 2 GB of available RAM (4 GB recommended)
- 2 GB of available hard disk space
- 1024x768 or higher resolution video adapter and display
- Standard mouse or compatible pointing device
- Standard keyboard

Server Hardware

- 2-Core 2GHz+ CPU
- 6 GB of available RAM (8 GB recommended)

Operating System

- Microsoft Windows 11 (Professional)
- Microsoft Windows 10 (Professional)
- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012, 2012 R2

Network

- Ethernet infrastructure (Gigabyte recommended)
- Internet connection recommended, but not required, for license activation, software updates, and support
- Anti-virus programs should exclude the R:BASE program, and any add-on product, executable and database files

2.2   Software Installation

The installation of R:WEB Reports is fully automated, and does not require user intervention for the initial configuration.

Run the installer ".exe", provided by download, while physically sitting at the workstation to begin the installation process, and read the installer screens for licensing and other information as the program installs.

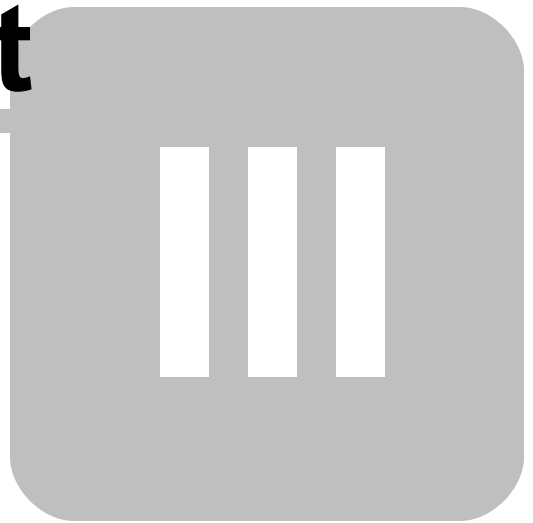**Installation Directory**

  C:\RBTI\RWebReports11

Files Installed

- RWebReports11.exe
- RWebReports11_R.exe
- RWebReports11_W.exe
- RWebReports11Srvc.exe
- RWebReports11.ini
- RWebReports11.chm
- RWebReports11.pdf
- License.rtf
- ReadMe.txt

Samples Directories

- [Console](#)
- [Modular](#)

Part III

3   Using R:WEB Reports

3.1   Parameters

The following parameters are available when specifying the R:WEB Reports program in your Web site script files.

Parameter	Value	Description
DATABASE	value	Specifies the database path and file name (.RX1)
USERNAME	value	Specifies a user name for the database
PASSWORD	value	Specifies a password for the database
DSN	value	Specifies the DSN name
REPORT_NAME	value	Specifies an R:BASE report name
LABEL_NAME	value	Specifies an R:BASE label name
<file type>	BMP DIF EMF ETXT (Report Emulation Text) GIF HTML JPG LOTUS PDF PNG QPRO RTF SVG SYLK TIFF TXT WMF XHTML XLS XLS2003 XLXS	Specifies the file type for the output
FILENAME	value	Specifies the full path and file name
WHERE_CLAUSE	value	Specifies the WHERE Clause
VARIABLE	VarName|Type|Value	Specifies the variable name, data type, and value
ADD_LICENSE	value	Specifies the plugin License Key, if used with application
SHOW_ERROR_MESSAGES		Specifies if syntax error messages are displayed
SHOW_WARNING_MESSAGES		Specifies if syntax warning messages are displayed
SHOW_PAUSE_MESSAGES		Specifies if pause messages are displayed
RUN	value	Specifies an R:BASE command file to run
HOME_DIR	value	Specifies the home directory

The resulting output will return the status of the print process, such as 'OK' or the exact -ERROR-message.

3.2   Script File

When composing the script files that specify the database and report values, you have several options to reach the desired end result. Each R:WEB Reports parameter would reside on its own line within the script file.

Connection
In the beginning of the script file, you must first specify how you want R:WEB Reports to connect to the R:BASE database. You have two available parameters [DATABASE](#) and [DSN](#), based upon how the database is stored. Both options work the same speed wise, but with the DSN parameter, you are offered more portability with multiple scripts and multiple databases.

Examples:

```
DATABASE C:\RBTI\RBG11\Samples\RRBYW20\RRBYW20.RX1

DSN RRBYW20
```

Report
The next required parameter is [REPORT_NAME](#). This specifies the necessary R:BASE report within the connected database that will be printed.

Example:

```
REPORT_NAME ColumnarReport
```

WHERE Clause
Included in R:WEB Reports is the ability to add a WHERE Clause condition using the [WHERE_CLAUSE](#) parameter, which supports the standard condition parameters available within R:BASE to qualify or restrict the rows affected by your report output.

In addition to your WHERE Clause condition, the PRINT command **OPTION** and **FILENAME** parameters are supported within the WHERE_CLAUSE parameter in order for you to specify an output type with a file name and location.

Examples:

```
WHERE_CLAUSE OPTION PDF│FILENAME Files\RWebGlobalVarRPT.pdf

WHERE_CLAUSE WHERE TransID = 1001 OPTION PDF│FILENAME
Files\Invoice_1001.pdf
```

Variables
R:WEB Reports allows to specify variables within your script file using the [VARIABLE](#) parameter if you need to pass values dynamically. When doing so, you must specify the variable name, data type, and value separated by pipe characters.

Examples:

```
VARIABLE v1│TEXT│'This_is_a_text_variable'
VARIABLE v2│INTEGER│9999999
VARIABLE v3│CURRENCY│1234.56
VARIABLE v4│DOUBLE│123.456642873
VARIABLE v5│NUMERIC(10,3)│123.456
VARIABLE v6│DATE│(.#DATE)
VARIABLE v7│TIME│(.#TIME)
VARIABLE v8│DATETIME│(.#NOW)
VARIABLE v9│DOUBLE│(.v5 * .v4)
```

3.3   Application Setup

3.3.1   Console

The console type is a stand-alone application executable, similar to previous R:WEB Reports releases. When setting up R:WEB Reports on your Web Server or test environment, the RWebReports11.exe must be placed within the appropriate live web directory with the script files that will call it. In addition to the R:WEB Reports executable, the latest R:BASE engine dynamic link library file, RBENGINE11.DLL, must be also be included in the web directory for database connection and command parameter support.

When using R:BASE plugins, like R:Charts, the appropriate plugin file (.RBM) must be placed in the live web directory with the R:WEB Reports executable and R:BASE engine DLL. When specifically using R:Charts to enhance R:WEB Reports, the chart files (.RBC) must be placed in the same web directory with the plugin. When using any plugins with R:WEB Reports, the ADD_LICENSE parameter must be added to the R:WEB Reports script file.

It is not recommended that you store your database in the live web directory, as this would compromise database security by possibly allowing web site visitors to download the database files.

3.3.2   Modular (Service)

The modular setup is composed of three applications called the Request Creator, Request Broker Service, and Worker. The modular setup significantly reduces load times (loading from disk and uncompressing in-memory of each report request. The modular setup also protects the server from running out of memory if there is a high number of requests. The idea is to cache a number of instances of R:WEB Reports, thus setting a limit to memory used.

- RWebReports11_R.exe   (Request Creator - This is the request creator/receiver and is the executable launched by web applications.)
- RWebReports11_W.exe (Worker - This is the executable for the worker process. Several instances of this are created by the service after starting.)
- RWebReports11Srvc.exe (Request Broker Service - This is a Windows service that serves as a broker for report requests. After starting it will preload several instances of Worker.)
- RWebReports11.ini   (Service Configuration)

When setting up R:WEB Reports on your Web Server or test environment, the Request Creator executable (RWebReports11_R.exe) must be placed within the appropriate live web directory with the script files that will call it. In addition to the executable, the latest R:BASE engine dynamic link library file, RBENGINE11.DLL, must be also be included in the web directory for database connection and command parameter support.

The Request Broker Service and Worker executable files can be placed in a separate folder other than the web folder, so it can be shared by other web applications (e.g. C:\RBTI\RWEBReports11). When using R:BASE plugins, like R:Charts, the appropriate plugin file (.RBM) must be placed in the same folder as the Request Broker Service and Worker executable files. When specifically using R:Charts to enhance R:WEB Reports, the chart files (.RBC) must be placed in the live web directory with the Request Creator executable. When using any plugins with R:WEB Reports, the ADD_LICENSE parameter must be added to the R:WEB Reports script file.

It is not recommended that you store your database in the live web directory, as this would compromise database security by possibly allowing web site visitors to download the database files.

Modular Use

1. With the application is opened in the web environment, the Request Creator executable forwards the report request to the Request Broker Service and waits for a response.
2. The Request Broker Service then identifies a free Worker that can service the request and pass the request to the available Worker.
3. The Worker process does performs the connection to the specified database and creating the output file.
4. The Worker passes the results to the Request Broker Service.
5. The Request Broker Service passes the result to Request Creator.
6. Request Creator passes the result to the console for further processing in the web application.

Service Configuration INI File
The contents of the INI file provide settings for the Request Broker Service. The settings control the following:

- WorkerExecutable - **full path** to the location of the worker executable
- WorkerCount - number of worker processes created by the service. Setting the value too low will result in slower response times for very busy sites. Setting the value too high will result in faster response times, but memory use is higher.
- WorkerTimeOut - maximum wait time for a report request to complete
- WorkerPort - port where Request Creator and Request Broker Service executable files communicate
- RequestPort - port where Request Broker Service and Worker executable files communicate

3.4   Samples

3.4.1   Apache/PHP Sample (Console)

Use the following instructions to use the R:WEB Reports sample that is included with the program.

1.   Create a new folder "RWEBReports11" in your existing "C:\Apache2\htdocs" folder (your exact path may differ).

2.   Copy the contents of the Samples\Console directory, excluding the .RMD files, into the new "RWEBReports11" folder that you just created.

3.   Copy the RWebReports11.exe program file into the new "RWEBReports11" folder.

4.   Copy the RBENGINE11.DLL engine file into the new "RWEBReports11" folder. This DLL can be located within your local SYSTEM directory where R:BASE X Enterprise is installed.

5.   Verify the folder contents RWEBReports11 by comparing the following files:

- files (a folder for output files)
- .htaccess
- DSN
- getreports.php
- index.php
- report.php
- icon.jpg
- RWebReports11.exe
- RBENGINE11.DLL

6.   Define a new ODBC System DSN named "RRBYW20" using the Oterro X Enterprise driver based upon the RRBYW20 sample database, typically located in the R:BASE program folder: C:\RBTI\RBG11\Samples\RRBYW20

7.   Start Apache Services

8.   Start your Internet browser and enter the following URL:

http://localhost/rwebreports11/
or
http://localhost/rwebreports11/index.php

You should be able to see and run the "R:WEB Reports" sample application!

Notes:

- Review all .php files for compete details

- A batch file is included to test report printing. Modify and run the RWebReports11_Test.bat batch file and RWebReports11_TestCfg.txt script file.

- Review all .RMD files for addition examples:

    - Sample_DB_Path.RMD
    - Sample_DB_Path_Global_Vars.RMD
    - Sample_DSN.RMD

3.4.2 Apache/PHP Sample (Modular)

Use the following instructions to use the R:WEB Reports sample that is included with the program.

1. Create a new folder "RWEBReports11" in your existing "C:\Apache2\htdocs" folder (your exact path may differ).

2. Copy the contents of the Samples\Modular directory, excluding the .RMD files, into the new "RWEBReports11" folder that you just created.

3. Copy the RWebReports11_R.exe program file into the new "RWEBReports11" folder.

4. Copy the RBENGINE11.DLL engine file into the new "RWEBReports11" folder. This DLL can be located within your local SYSTEM directory where R:BASE X Enterprise is installed.

5. Verify the folder contents RWEBReports11 by comparing the following files:

    - files (a folder for output files)
    - .htaccess
    - DSN
    - getreports.php
    - index.php
    - report.php
    - icon.jpg
    - RWebReports11_R.exe
    - RBENGINE11.DLL

6. Define a new ODBC System DSN named "RRBYW20" using the Oterro 11 driver based upon the RRBYW20 sample database, typically located in the R:BASE program folder: C:\RBTI\RBG11\Samples\RRBYW20

7. Start Apache Services

8. Start your Internet browser and enter the following URL:

    http://localhost/rwebreports11/
    or
    http://localhost/rwebreports11/index.php

You should be able to see and run the "R:WEB Reports" sample application!

Notes:

- Review all .php files for compete details

- A batch file is included to test report printing. Modify and run the RWebReports11_Test.bat batch file and RWebReports11_TestCfg.txt script file.

- Review all .RMD files for addition examples:

    - Sample_DB_Path.RMD
    - Sample_DB_Path_Global_Vars.RMD
    - Sample_DSN.RMD

Part IV

4 Technical Support

Please read over the help documentation at least once before seeking support. We have worked very hard to make the help documentation clear and useful, but concise. It is suggested that you reread these instructions once you have become accustomed to using the software, as new uses will become apparent.

If you have further questions, and cannot find the answers in the documentation, you can obtain information from the below sources:

- Email our Technical Support Staff at: support@rbase.com
- Access the R:BASE Technologies Support home page online at https://www.rbase.com/support

You may be required to purchase a technical support plan. Several support plans are available to suit the needs of all users. Available Technical Support Plans

Please be prepared to provide the following:

- The product registration number, which is located on the invoice/order slip for the purchased product
- The type of operating system and hardware in use
- Details regarding your operating environment; such as available memory, disk space, your version of R:BASE, local area network, special drivers, related database structures, application files, and other files that are used or accessed by your application

All provide information will be used to better assist you.

R:BASE Technologies has a number of different services available for R:BASE products. As a registered user, you will receive information about new features for R:BASE and other R:BASE Technologies products. Please remember to register your software. https://www.rbase.com/register/

Part V

5 Useful Resources

. R:BASE Home Page: https://www.rbase.com

. Up-to-Date R:BASE Updates: https://www.rbaseupdates.com

. Current Product Details and Documentation: https://www.rbase.com/rbg11

. Support Home Page: https://www.rbase.com/support

. Product Registration: https://www.rbase.com/register

. Official R:BASE Facebook Page: https://www.facebook.com/rbase

. Sample Applications: https://www.razzak.com/sampleapplications

. Technical Documents (From the Edge): https://www.razzak.com/fte

. Education and Training: https://www.rbase.com/training

. Product News: https://www.rbase.com/news

. Upcoming Events: https://www.rbase.com/events

. R:BASE Online Help Manual: https://www.rbase.com/support/rsyntax

. Form Properties Documentation: https://www.rbase.com/support/FormProperties.pdf

. R:BASE Beginners Tutorial: https://www.rbase.com/support/rtutorial

. R:BASE Solutions (Vertical Market Applications): https://www.rbase.com/products/rbasesolutions

Part VI

6   Feedback

Suggestions and Enhancement Requests:

From time to time, everyone comes up with an idea for something they'd like a software product to do differently.

If you come across an idea that you think might make a nice enhancement, your input is always welcome.

Please submit your suggestion and/or enhancement request to the R:BASE Developers' Corner Crew (R:DCC) and describe what you think might make an ideal enhancement. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the request. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted enhancement request.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to rdcc@rbase.com.

Reporting Bugs:

If you experience something you think might be a bug, please report it to the R:BASE Developers' Corner Crew. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

You will need to describe:

- What you did, what happened, and what you expected to happen
- The product version and build
- Any error message displayed
- The operating system in use
- Anything else you think might be relevant

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the bug report. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted bug.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to rdcc@rbase.com.

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