



RECRYSTALLIZE LIGHT

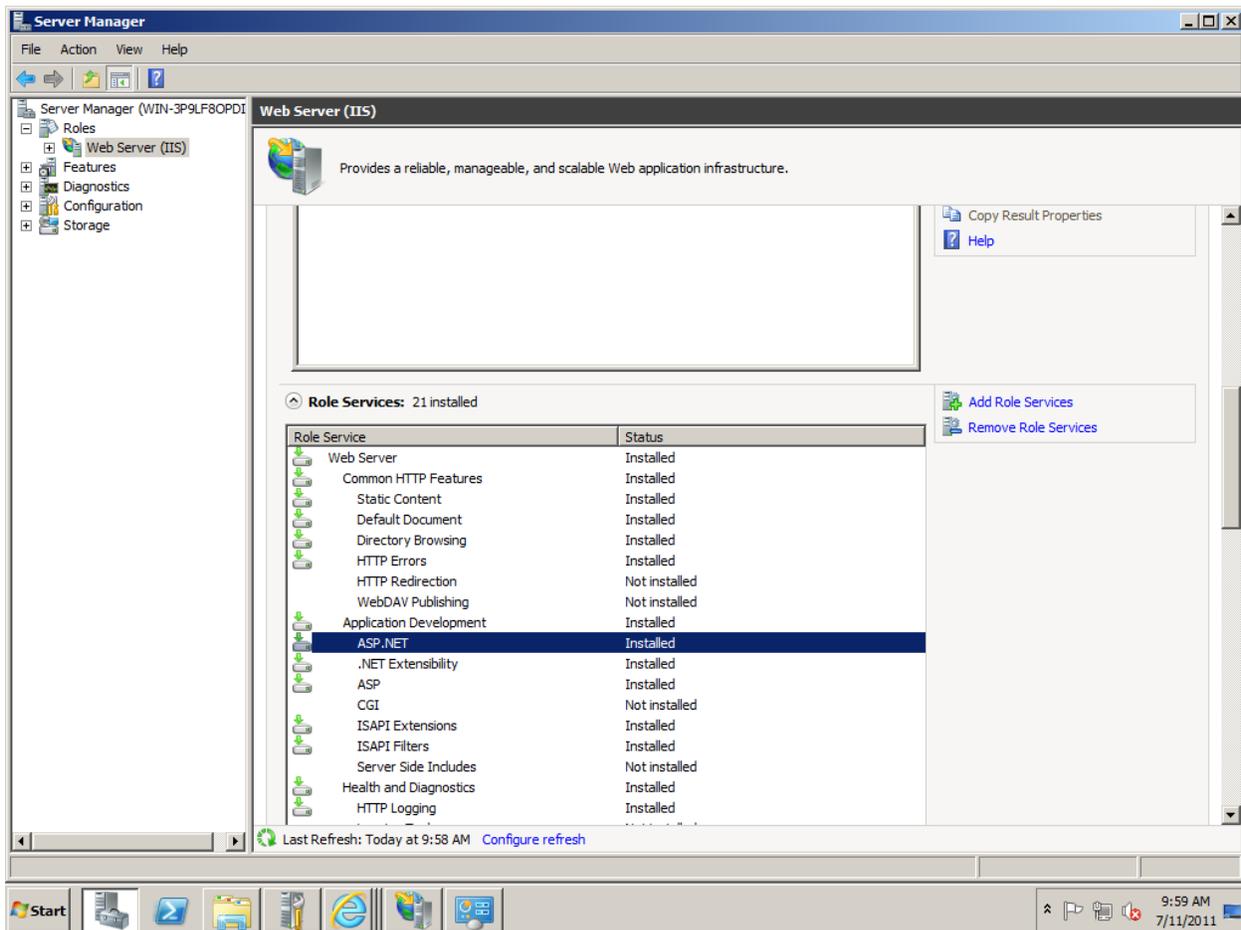
Web Publisher for Crystal Reports

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Quick Start

- Ensure that IIS and ASP.NET are enabled on your server. Steps vary for different Windows versions. In Windows 2008, open Server Manager and select Roles to add the Web Server (IIS) Role if it is not already installed. Under Web Server (IIS), find ASP.NET in Role Services. Add the ASP.NET Role Service if it is not already installed.



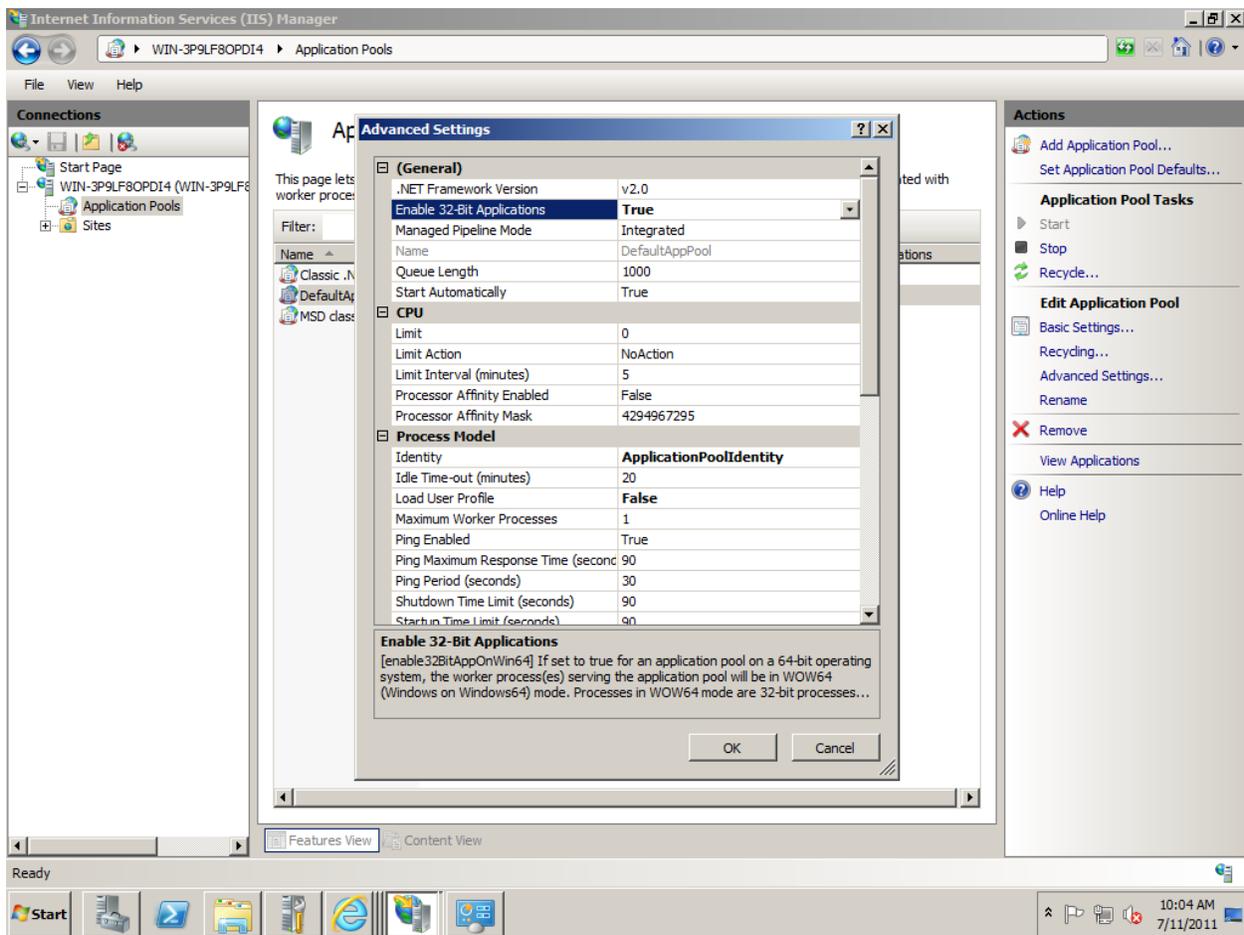
- Ensure that the Microsoft .NET Framework version 2.0 or later (4.0 or later preferred) is installed on the web server.
 - To see which versions of the .NET Framework are installed, open the folder location below in Windows Explorer. Numbered folders within the Framework folder indicate which versions of the .NET Framework are installed.

%systemroot%\Microsoft.NET\Framework
 - If the required .NET Framework version is not installed, use Windows Update or the Microsoft web site to download and install.

- Install ReCrystallize Light on your Windows PC or server with the IIS web server.
- If using a 64-bit version of Windows, ensure the Application Pool that will handle the report web pages is set to allow 32-bit applications. Steps vary with different Windows versions.

In Windows 2008, go to Start, Administrative Tools, Internet Information Services (IIS) Manager. Under Application Pools select the Application Pool (DefaultAppPool is used by default, but you may assign another Application Pool by creating a new application in IIS Management). Under Advanced Settings, find Enable 32-Bit Applications and set the value to True.

- Check to see if the versions of Windows is 32-bit or 64-bit under My Computer, Properties or by going to System in Control Panel.



- If you wish to run reports with current data updated from the database, install any database client software (e.g. Oracle client) and configure any ODBC System DSNs that may be needed by your reports.

The option to retrieve data from the database is enabled when ReCrystallize Light is purchased and activated.

- If your reports access your database through ODBC, create a System DSN with the same name and configuration as the one used to design the reports. (User DSNs are not available to the web publishing service.)
- If you are using a 64-bit version of Windows with a 32-bit version of Crystal Reports runtime (this is common), do not configure the ODBC connections using Data Sources (ODBC) under Administrative Tools as this will create a 64-bit ODBC connection. Instead, configure the ODBC connections using the 32-bit ODBC Data Source Administrator at C:\Windows\SysWOW64\odbcad32.exe .
- If your reports use a SQL Server database, configure the ODBC System DSN to use TCP/IP (not named pipes) and SQL Authentication (not Integrated / NT Authentication).
- If your reports use an Oracle database, install and configure the Oracle client software on the web server.
- Any required database software such as Oracle client software must be 32-bit.

- Start ReCrystallize Light to create a web page to run your report.

- Step 1: Click the Browse button to select your Crystal Reports .rpt file.
- Step 2: If desired, select the checkbox labeled “Retrieve and show updated data from the database each time the report is viewed.” and then enter the database User Name and Password.

The option to retrieve data from the database is enabled when ReCrystallize Light is purchased and activated.

- Step 3: Set Viewer Options to control the appearance and behavior of the report viewer in the browser. Default options are recommended in most cases. If desired, a he Web Page Title.
- Step 4: Click the Create Web Page button. ReCrystallize Light will create a set of ASP.NET files in the same folder as the .rpt file you selected. Note that a web.config file will also be created and is necessary for the web page to work properly.
- Step 5: Place copies of the .rpt file and all of the files created by ReCrystallize Light into a folder within your website, typically under C:\Inetpub\wwwroot.

Open a web browser to the web page file indicated by ReCrystallize Light. Please note that the browser should must use a web address beginning with http://

For example:

<http://localhost/reports/salesreport-static.aspx>

or

<http://reportserver/sales/salesreport-dynamic.aspx>

Double-clicking the .aspx file in Windows Explorer will not allow the web server to process the report.

System Requirements

PC requirements for creating web pages with ReCrystallize Light

- Windows XP or later (including Windows Vista, Windows 7, and Windows 8)
or
Windows Server 2003 or later (including 2008, 2008 R2, and 2012)
- 1 GB free disk space
- 2 GB RAM

Web server requirements for serving reports

- Windows Server 2003 or later (including 2008, 2008 R2, and 2012) recommended
or
Windows XP or later (including Windows Vista, Windows 7, and Windows 8) Professional, Business, or Ultimate Edition that includes the IIS web server
- Internet Information Services (IIS) web server installed.
- ASP.NET feature installed and enabled.
- Microsoft .NET Framework 2.0 or later (4.0 preferred)
- 1 GB free disk space
- 4 GB RAM
- 2 or more processor cores recommended
- On 64-bit versions of Windows, the IIS Application Pool used to serve reports must be set to allow 32-bit applications.
- For reports that update data from the database, any database client software (e.g. Oracle client) and/or ODBC connections using System DSNs that may be needed by the reports must be configured on the web server. ODBC DSNs must be configured using the 32-bit ODBC administration tool located at
C:\Windows\SysWOW64\odbcad32.exe
- Installing a printer using the same driver and printer name as on the machine used to create the reports (.rpt files) is recommended to ensure proper support for non-standard paper sizes and other layout characteristics when viewing reports in the web browser.

Where to Buy

ReCrystallize Light and Crystal Reports may be purchased using a credit card at our secure web site at the links below.

ReCrystallize.com LLC can also accept purchase orders, PayPal payments, and bank wire transfers; please email sales@recrystallize.com or see <http://www.recrystallize.com/merchant/howtobuy.htm> for more information.

<http://www.recrystallize.com/merchant/Buy-ReCrystallize-Light-Web-Publisher-for-Crystal-Reports.htm>

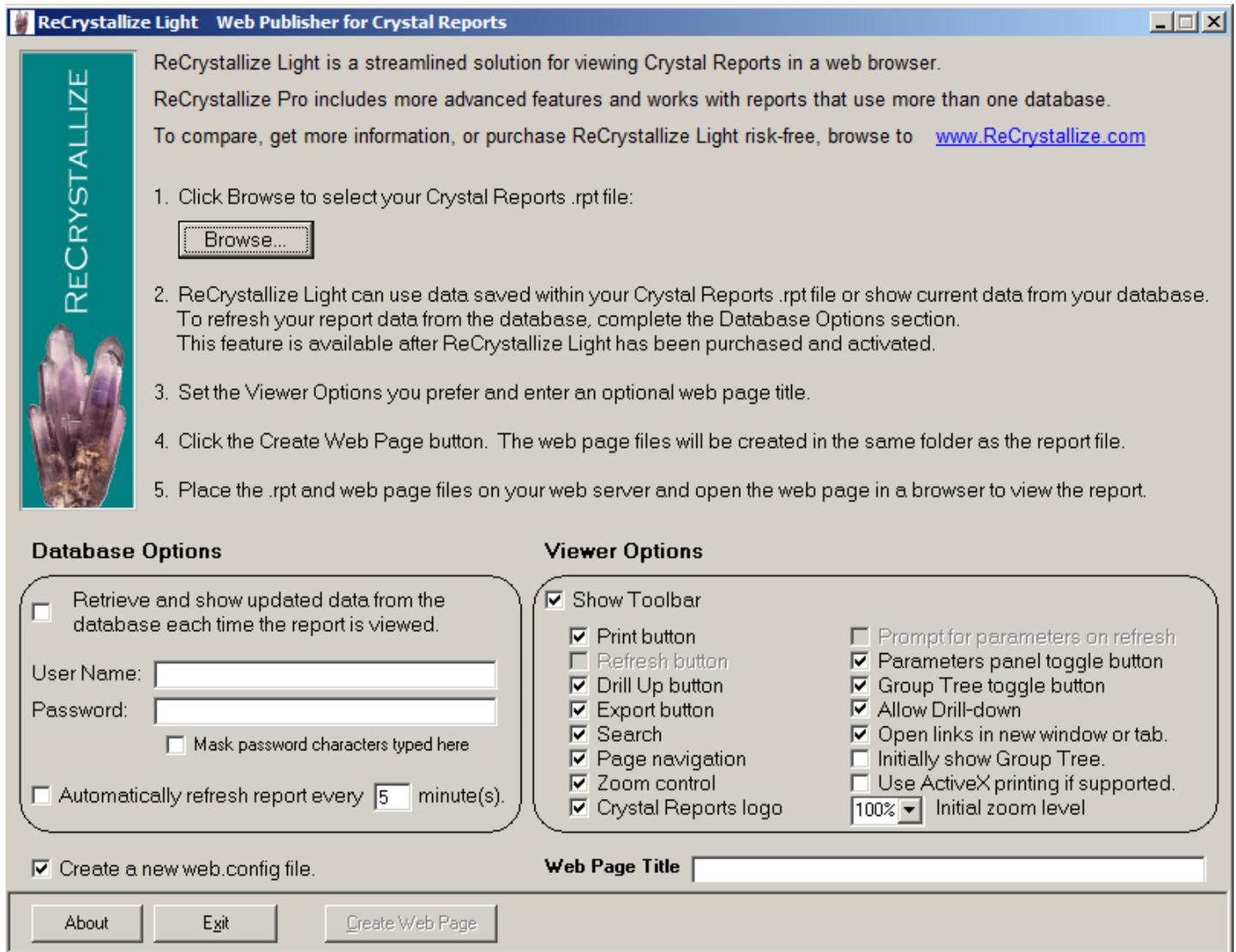
<http://www.recrystallize.com/merchant/products.htm>

ReCrystallize Light is covered by a 30-day money-back guarantee to ensure all features, including retrieving data from the database, work as expected.

Using ReCrystallize Light

Step 1: Click Browse to select your Crystal Reports .rpt file

Select the Crystal Report (.rpt file) that you wish to publish on the web. ReCrystallize Pro works with .rpt files created in the Crystal Reports versions 7, 8.0, 8.5, 9, 10, XI, XI R2, 2008, 2011, and 2013.



The screenshot shows the ReCrystallize Light Web Publisher for Crystal Reports application window. The window title is "ReCrystallize Light Web Publisher for Crystal Reports". On the left, there is a vertical banner with the word "RECRYSTALLIZE" and an image of purple crystals. The main content area contains the following text:

ReCrystallize Light is a streamlined solution for viewing Crystal Reports in a web browser. ReCrystallize Pro includes more advanced features and works with reports that use more than one database. To compare, get more information, or purchase ReCrystallize Light risk-free, browse to www.ReCrystallize.com

1. Click Browse to select your Crystal Reports .rpt file:
2. ReCrystallize Light can use data saved within your Crystal Reports .rpt file or show current data from your database. To refresh your report data from the database, complete the Database Options section. This feature is available after ReCrystallize Light has been purchased and activated.
3. Set the Viewer Options you prefer and enter an optional web page title.
4. Click the Create Web Page button. The web page files will be created in the same folder as the report file.
5. Place the .rpt and web page files on your web server and open the web page in a browser to view the report.

The application has two main sections: "Database Options" and "Viewer Options".

Database Options:

- Retrieve and show updated data from the database each time the report is viewed.
- User Name:
- Password:
- Mask password characters typed here
- Automatically refresh report every minute(s).

Viewer Options:

- Show Toolbar
 - Print button
 - Refresh button
 - Drill Up button
 - Export button
 - Search
 - Page navigation
 - Zoom control
 - Crystal Reports logo
- Prompt for parameters on refresh
- Parameters panel toggle button
- Group Tree toggle button
- Allow Drill-down
- Open links in new window or tab.
- Initially show Group Tree.
- Use ActiveX printing if supported.
- Initial zoom level

At the bottom, there is a checkbox for "Create a new web.config file." and a text field for "Web Page Title".

Buttons at the bottom include "About", "Exit", and "Create Web Page".

Step 2: Database Options

At this step, choose whether the report will use information that was saved with the .rpt file using the “Save Data with Report” option in Crystal Reports or retrieve current data from your database whenever the report is viewed.

Select the checkbox labeled

“Retrieve and show updated data from the database each time the report is viewed.”

to update data from your database. If this checkbox is not selected, the report will use saved data. This checkbox and other database options are available after the ReCrystallize Light software is purchased and activated.

Enter the database User Name and Password in the spaces provided. The User Name and Password will be included in the web page code that runs on the web server only. They are never sent to the client browser, so users viewing reports will not be able to observe the User Name or Password by viewing the web page source or other means.

ReCrystallize Light works with reports that include one database connection with one database User Name and Password. For reports that connect to multiple databases or use multiple database logins, use ReCrystallize Pro instead of ReCrystallize Light.

Select the checkbox labeled

“Automatically refresh report data every __ minutes”

only if you wish the browser to automatically refresh the report without manual intervention while the report remains open. This feature is useful in cases such as a report being displayed on a public monitors where it should be updated periodically without requiring any action from a user. For most uses, this checkbox should not be selected. When the checkbox is not selected, report data will be updated each time a user opens the report in the browser or manually clicks the refresh button.

Setting your report parameters

If your report uses parameter prompts and you have selected the option to retrieve fresh data from the database, the Crystal Reports .NET Viewer will prompt the web user to set each parameter value. The prompts will appear similar to parameter prompts in the Crystal Reports designer and will use the prompting text that was entered when designing the report. Dynamic and cascading parameters set up within Crystal Reports will work properly.

Step 3: Viewer Options

Select the desired options to control the appearance and behavior of the report viewer in the browser. For example, you may wish to deselect the “Export button” option if you don’t wish to allow users to save the report in another format. In most cases the default options need not be changed.

The “Use ActiveX Printing if supported” option will allow native Windows printing with certain browsers running on Windows clients. If this checkbox is not selected or if the browser is not recognized as supporting ActiveX controls, the report will be rendered in PDF format as an intermediate step when printing. If ActiveX printing is not available,

rendering the report as a PDF allows more precise and faithful report layout and formatting than is otherwise possible with the HTML based viewer.

As of this writing, some versions of Internet Explorer and Firefox browsers running on Windows support ActiveX.

Step 4: Creating the web pages for your report

When you click the "Create Web Page" button, ReCrystallize Pro Light will produce a set of ASP.NET web pages for viewing your report. The web page files will be located in the same directory as your report (.rpt file). Open your web browser to the page displayed in the text box to begin viewing the report.

Step 5: Moving the files to your web site and viewing your report

To view your report on the web, move the .rpt file and all of the files that ReCrystallize Light created into a folder within the web site folder located your web server. The default web site is usually located on the server at C:\inetpub\wwwroot.

About the web.config file

ReCrystallize Light creates a web.config file along with each set of ASP.NET web pages. The web.config file includes the minimal configuration settings necessary for the web application to display your reports. If your website or application uses an existing web.config file at a higher level folder, the settings in the new web.config created by ReCrystallize Light will be incorporated and will usually not interfere or change existing settings.

At least one web.config file created by ReCrystallize Light must be in place for the report web pages to work properly. The web.config file is not unique for each report; it is common for all report web pages, so a centralized copy may be used. After a web.config file is in place, it may be convenient to uncheck the box labeled

"Create a new web.config file"

so that ReCrystallize Light does not create unnecessary copies of the web.config file.

The recommended best practice is to place one copy of the web.config file at the root of the web site or at the top of the folder structure within the web site that houses the ReCrystallize Light web pages and reports. It is permissible to include copies of the web.config file in multiple folders that are at the same level within the web site. However, the web.config file must not be included at different levels within nested folders or an error will result.

Example of recommended best practice placement of the web.config file:

c:\inetpub\wwwroot\reports

web.config

c:\inetpub\wwwroot\reports\financials

financialreport.aspx

financialreport.aspx.vb

financialreport.rpt

c:\inetpub\wwwroot\reports\sales

salesreport.aspx

salesreport.aspx.vb

salesreport.rpt

c:\inetpub\wwwroot\reports\salesbyregion

salesreportbyregion.aspx

salesreportbyregion.aspx.vb

salesreportbyregion.rpt

c:\inetpub\wwwroot\reports\hr

hrreport.aspx

hrreport.aspx.vb

hrreport.rpt

Example of acceptable placement of the web.config file:

c:\inetpub\wwwroot\reports

c:\inetpub\wwwroot\reports\financials

web.config

financialreport.aspx

financialreport.aspx.vb

financialreport.rpt

c:\inetpub\wwwroot\reports\sales

web.config

salesreport.aspx

salesreport.aspx.vb

salesreport.rpt

c:\inetpub\wwwroot\reports\salesbyregion

salesreportbyregion.aspx

salesreportbyregion.aspx.vb

salesreportbyregion.rpt

c:\inetpub\wwwroot\reports\hr

web.config

hrreport.aspx

hrreport.aspx.vb

hrreport.rpt

Example of incorrect placement of the web.config file which will result in an error:

c:\inetpub\wwwroot\reports

c:\inetpub\wwwroot\reports\financials

web.config

financialreport.aspx

financialreport.aspx.vb

financialreport.rpt

c:\inetpub\wwwroot\reports\sales

web.config

salesreport.aspx

salesreport.aspx.vb

salesreport.rpt

c:\inetpub\wwwroot\reports\salesbyregion

web.config

salesreportbyregion.aspx

salesreportbyregion.aspx.vb

salesreportbyregion.rpt

c:\inetpub\wwwroot\reports\hr

web.config

hrreport.aspx

hrreport.aspx.vb

hrreport.rpt

Using your web browser to run/view your report

After you click the “Create Web Page” button, ReCrystallize Light will indicate which file you should use to begin running your report. To view the report, enter the address of the file into the web browser address bar in the form of an Internet URL. For example,

`http://yourserver/yourdirectory/yourreport-dynamic.aspx`

Do not double-click the file in Windows Explorer or enter the address as a file location such as

`file://C:\Inetpub\wwwroot\yourdirectory\yourreport-parameters.aspx`

because opening the web page as a file will not allow the web pages to be processed by the IIS web server.

Troubleshooting Resources

Check the ReCrystallize support Frequently Asked Questions at

<http://www.recrytallize.com/merchant/supportfaq.htm>

for solutions to common issues.

Appendix A: End User License Agreement

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