

Parallel Crystal

**WEBSPHERE 3.5
SAMPLE DOCUMENTATION**





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Disclaimer

Dynamalivery Corporation provides sample source code, screencam movies, and other documentation only as aids for learning specifically about our Parallel Crystal Report Server while providing a general overview of Web Reporting.

These materials are subject to change without notice. We provide them on an "as is" basis without warranty.

Please do not treat them as production quality components to use within your own application without your own comprehensive testing.

Dynamalivery recommends that its customers establish separate development, test, and production environments and promote applications and report templates step by step as they prove themselves in each environment, under conditions of realistic test data, network load, database load, and report concurrency.

In addition, Dynamalivery recommends that Parallel Crystal is evaluated and operated on server computers that match or exceed the hardware specifications in our Installations Guide and with staff that have experience with the Seagate Crystal Reports Designer, Microsoft Windows NT network administration, and SDK level programming in the Web Application Server with which they are using Parallel Crystal.





Release Notes

The Multi-Threaded EJB

According to the EJB specification, Enterprise Java Beans should not be multi-threaded. However, we use a multi-threaded EJB to simulate multiple clients accessing the Parallel Crystal server. The EJB's use of Java Threads is not a valid example of how to write multi-threaded clients that work with Parallel Crystal, and should not be used in an EJB for your applications. Its placement in the EJB is for demonstration purposes in an effort to make the deployment of a sample as simple as possible.

Sample Features

To see what Crystal Reports features are in the Dynamalivery downloadable samples please go to this link:
http://www.dynamalivery.com/customersupport/faq/Sample_Features.html

Related Topics

Load Balancing

<http://www.products/parallelcrystal/parallelcrystaldoc.html>

<<PATH TO>> J2EESamples\docs\ **Load Balancing Guide to Installation and Configuration**

Data Source SetUp Guide

<http://www.products/parallelcrystal/parallelcrystaldoc.html>

<<PATH TO>> J2EESamples\docs\ **Data Source SetUp Guide**

File Return

<http://www.dynamalivery.com/customersupport/faq/filereturn.html>

Java API

http://www.dynamalivery.com/products/parallelcrystal/v2_6/doc/JavaAPIQuickReference/index.html

Output Types

PDF Output

Adobe Acrobat Reader is needed to view .pdf output. Acrobat Reader is available free at <http://www.adobe.com/> or can be loaded from the Parallel Crystal CD.

Excel and Word Output

Microsoft Word and Excel are needed to view .doc and .xls output types.





Installation Instructions

WebSphere 3.5

This sample has been written and tested based on WebSphere 3.5 with Apache http server. Earlier versions of WebSphere may not work with this sample.

Installation prerequisites

Before installing and running the sample please review the Data Source Setup Guide and make sure the DSNs have been configured prior to running the sample.

Step One – Build the WebSphere 3.5 specific EJB

The installWebSphere35.bat batch file will build the WebSphere 3.5 specific Enterprise Java Bean (EJB) jar file as well as copy the necessary HTML/JSP files to the WebSphere install directory.

1. Go to <<Path_to_J2EESamples>>\bin\installWebSphere35.bat file, right click on the file, choose edit and verify that the WEBSHERE_HOME and SAMPLE_HOME are correct.
2. Run the batch file.
3. Run the admin console to create the sample EJB and web application.
 - a. To create the EJB, go to the admin console and expand the "WebSphere Administrative Domain" node in the left pane.
 - b. Then expand the node with your server's machine name.
 - c. Next expand the Default Server, right click on the Default Container and select the "Create->Enterprise Bean" command.
 - d. Browse to the EJB jar file: \J2EESamples\archives\websphere\PCRESample-ws35.jar. Click on "Yes" to confirm deployment and when prompted select the "Deploy Only" option.

After you have finished this wizard you should have a "PCRESample" EJB successfully deployed in the Default Container.

Step Two – Create The Sample Web Application

1. Go to the admin console "Console->Tasks" menu and select the "Create a Web Application" command.
2. Enter "Pcre" as the Web Application Name
3. On the next dialog select the Default Servlet Engine as the Parent Servlet Engine.
4. On the next dialog, change the Web Application Web Path to /IBMWebAS/Pcre and click "Next".
5. On the next dialog, change the Document Root to:
<WebSphere Install Directory> \AppServer\web\Pcre,
6. Replace the default classpath with <WebSphere Install Directory>\AppServer\DeployedEJBs\DeployedPCRESample-ws35.jar
7. Finally click "Finish".





The Default Server must now be started/restarted to run the sample. Make sure both the PCRESample EJB and Pcre Web Application are running before attempting to run the sample.

Run the Sample

Please review the Data Source Setup Guide and make sure the DSNs have been configured prior to any attempt at running the sample.

The following changes should be made to the sample.config file:

Go to <<PATH TO>> J2EESamples\config\websphere35\sample.config right click on the file, choose SEND TO>>NOTEPAD and make the following changes:

1. Replace the server name value with the full DNS name of the PCRE server machine.
2. Make sure that the value for outputDir correctly matches the path to where you have installed the WebSphere server.
3. Make sure that the value for imageDir correctly matches the path to where you have installed the J2EESamples directory.
4. Replace *localhost* in the value for outputURL with your machine's full DNS name
5. Make sure that the value for DORfile.location states the correct path of the <<PATH TO>> J2EESamples \dor\DORDataFile.dat file.

If you are accessing a password-protected database, modify the user name and password.

If your server is running locally, you can click on the following link to run the sample <http://localhost/IBMWebAS/Pcre/index.html>. Otherwise, modify the URL to reference the server machine.

When running this sample, you will be prompted for a config directory. Modify the sample.config to match your system and type in the path to this directory when prompted: <<PATH TO>> J2EESamples\config\websphere35

Load Balancing

For detailed information on Load Balancing please review the "Load Balancing Guide to Installation and Configuration." It can be found at the link below on our website as well as in the <<PATH TO>> J2EESamples\docs directory.

<http://www.dynalivery.com/products/parallelcrystal/parallelcrystaldoc.html>

To test load balancing, you must modify the <<PATH TO>> J2EESamples\Prop\pcre.properties file to contain all of the machine names in the load balancing channel. Copy the pcre.properties file from \J2EESamples\Prop to the \WebSphere\AppServer\properties directory.





Uninstall the Sample

To uninstall the sample, you must use the admin console to remove both the enterprise java bean (EJB) and the web application. In addition, you should run the `\J2EESamples\bin\uninstallWebSphere35.bat` batch file to delete the HTML/JSP files copied to the WebSphere install directory. Please edit this batch file before running it and ensure that the setting for `WEBSPHHERE_HOME` is correct.

To remove the EJB

1. Go to the admin console and expand the node under the Admin Application in the left pane. Expand the Default Server and the Default Container underneath it.
2. Select the PCRESample enterprise bean.
3. Right click on this bean and select the "Remove" command. If the bean is running, you must first stop the bean and then remove it.

To remove the web application

1. Right click on the Default Server and select the "Stop" command.
2. Expand the Default Servlet Engine underneath the Default Server, right click on the Pcre web application and select the "Remove" command.