

# Parallel Crystal

IIS/ASP SAMPLE DOCUMENTATION





# Contents

<b>DISCLAIMER.....</b>	<b>3</b>
<b>RELEASE NOTES .....</b>	<b>4</b>
SAMPLE FEATURES .....	4
RELATED TOPICS .....	4
<i>Load Balancing.....</i>	4
<i>Data Source SetUp Guide.....</i>	4
<i>File Return .....</i>	4
<i>COM API .....</i>	4
OUTPUT TYPES .....	4
<i>PDF Output.....</i>	4
<i>Excel and Word Output.....</i>	4
<b>INSTALLATION INSTRUCTIONS.....</b>	<b>5</b>
IIS/ACTIVE SERVER PAGES.....	5
<i>Installation prerequisites .....</i>	5
<i>Global.asa file settings: .....</i>	5
<i>Register VB DLLs .....</i>	5
<i>MS Word and MS Excel Output.....</i>	6
<i>Making ASPSample Default Web Site.....</i>	6
<b>DATA OBJECT REPORTING .....</b>	<b>6</b>
<i>MultiTableDor .....</i>	6
<b>RUN THE SAMPLE.....</b>	<b>7</b>
<b>THE SIMPLE ASP SAMPLE.....</b>	<b>7</b>
<b>LOAD BALANCING.....</b>	<b>8</b>





**IIS/ASP Sample**  
Modified 04/09/02

## **Disclaimer**

Dynamivery 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.

Dynamivery 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, Dynamivery 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.





IIS/ASP Sample  
Modified 04/09/02

## Release Notes

### 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](http://www.dynamalivery.com/customersupport/faq/Sample_Features.html)

### Related Topics

#### Load Balancing

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

<<PATH TO>> ASP\_Sample\Docs\ **Load Balancing Guide to Installation and Configuration**

#### Data Source SetUp Guide

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

<<PATH TO>> ASP\_Sample\Docs\ **Data Source SetUp Guide**

#### File Return

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

#### COM API

[http://www.dynamalivery.com/products/parallelcrystal/v2\\_6/doc/COMAPI/index-1.html](http://www.dynamalivery.com/products/parallelcrystal/v2_6/doc/COMAPI/index-1.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

## IIS/Active Server Pages

This sample has been written and tested based on Windows NT 4.0 SP6a with IIS/ASP from Option Pack 4. Earlier versions of IIS/ASP 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.

Double click the self-extracting archive. The **ASPSample** folder and **Threadfiles** folder should be extracted to the **<path\_to\_Inetpub>\wwwroot** directory. Copy the files Bike.mdb, Northwind.mdb, ReportLog.mdb and MultiTableDOR.mdb from **<path\_to\_Dynamalivery>/Pcre/SampleReports** directory to **<path\_to\_Inetpub>\wwwroot \ASPSample** directory.

### Global.asa file settings:

Session.Timeout=30: needs to be set to an integer value specifying the time in minutes after which all the session variables expire. This is the time when there is no activity on server side for a session.

Session ("ReportServer")= <Report Server Name>: Specify the report server name

Session ("ReportFolder")= "C:\Progra~1\Dynamalivery\Pcre\samplereports\": Specify the directory where the reports exist on the report server.

Session ("Outputdir1")="c:\Inetpub\wwwroot\Aspsample\output\": Specify the directory where all the generated reports will be placed on the web server.

Please note that the default output directory is to be assigned in the global.asa file. Please make sure that this directory exists prior to running the sample.

### Register VB DLLs

**Regsvr32.exe** could be used to register the VB DLLs, *DllThreads.dll* and *Nwind.dll* present in the **<path\_to\_Inetpub>\wwwroot\ASPSample** directory and *PCREUtility.dll* present in **<path\_to\_Dynamalivery>\Pcre\COM Client** directory.

Open a command prompt by going to Start->Run type in cmd and click ok. Change directory so that you are at the prompt for the drive that the sample is on.

Change directory to **<path\_to\_Inetpub>\wwwroot\ASPSample** to register the following two DLLs.

**regsvr32 DllThreads.dll**  
**regsvr32 NWind.dll**

Change directory to **<path\_to\_Dynamalivery>\Pcre\COM Client** to register the last DLL.

**Regsvr32 PCREUtility.dll**

You should be presented with dialogue box each time saying it was registered successfully. Now they are registered and can be accessed from the ASP pages.





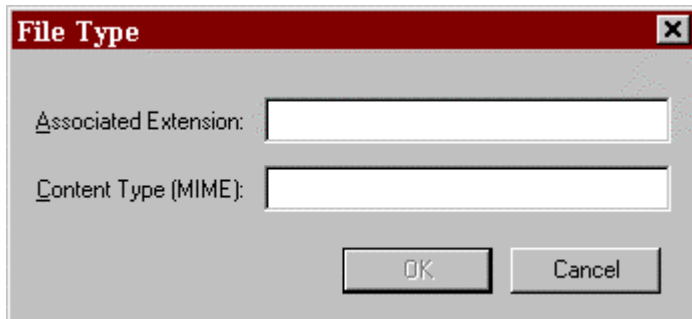
### MS Word and MS Excel Output

To preview reports in Microsoft Word or Microsoft Excel in the browser window, MIME types need to be registered with IIS. This can be achieved by configuring MIME type mappings in the Internet Service Manager Console:

Open up the Internet Service Manager Console (Start->Programs->Windows NT 4.0 Option Pack->Microsoft Internet Information Server-> Internet Service Manager).

In the left pane, click on the "Internet Information Server". Expand down until you get to ASPSample and right click on ASPSample. (e.g. Internet Information Server->DID4->Default Web Site->ASPSample) and go to properties.

Click on "HTTP Headers" tab. Under MIME Map, click on "File Types" and select "New Type".



Type *.xls* in the Extension field and *application/vnd.ms-excel* in the Content Type field, and then click OK. Any other extension such as *.doc*, may be added using the same procedure.

Associated Extension	Content Type (MIME)
.xls	application/vnd.ms-excel
.doc	application/msword

### Making ASPSample Default Web Site

To make the ASPSample the default web site. right click on ASPSample in the management console and go to properties. Under application settings, click on create and click on Apply.

## Data Object Reporting

### MultiTableDor

The *MultiTableDOR* data source is used to demonstrate our multiple table Data Object Reporting (DOR) feature. The *MultiTableDOR* system DSN, connected to *MultiTableDOR.mdb*, needs to be configured on the client (Web/Portal Server machine).





## Run the Sample

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

To run the sample in your web browser, browse to [http://<IIS\\_Server\\_DNS\\_Name>/AspSample/](http://<IIS_Server_DNS_Name>/AspSample/)

Make sure that the input file folder "`<path_to_Dynalivery>\Pcre\SampleReports`" and the output directory "`<path_to_Inetpub>\wwwroot\AspSample\output`" exist before running the sample.

## The Simple ASP Sample

The Simple ASP Sample generates reports using Parallel Crystal. To run the sample, browse to [http://<IIS\\_Server\\_DNS\\_Name>/AspSample/](http://<IIS_Server_DNS_Name>/AspSample/) and click on the "Simple ASP Sample" link. Fill in the fields as described below:

- **Output type:** Select the format for the generated output file by clicking on one of the radio buttons.
- **Host name:** Specify the host name (DNS) or the IP address of the machine running the Parallel Crystal report server (e.g. MONARCH). If you want to select the "Use Load Balancing" option, then specify the channel name instead of the host name. For more information, see the "notes on running the sample" section.
- **Input Report Template:** Select the input report template from the list of report templates, a \*.rpt file which should be on your report server machine.
- **Number of Reports:** Specify the number of reports that you need to generate.
- **Number of Request Threads:** Specify the number of threads to be generated.
- **Use Load Balancing:** Select this option if you want to balance the load of generating reports among multiple report servers.
- **Use File Return:** Select this option if you want the generated file to be returned to the client.
- **Logging Options:** Select this option to generate Reportlog.html file.





IIS/ASP Sample  
Modified 04/09/02

## Load Balancing

To run load balancing, please ensure that you follow the additional steps outlined below.

Set the classpath for the directory containing the pcre.properties file in the following manner in the system registry. Execute the "regedit" command from the windows Run command line in the start menu and go to the following folder

My Computer -> HKEY\_LOCAL\_MACHINE -> SOFTWARE -> Microsoft -> JavaVM and add the path to your pcre.properties file to the Classpath value.

If you are running load balancing you must have file return checked (turned on) in order for the completed reports to be returned to the client machine's output directory. Otherwise the reports will be left in each report server's File Return directory.

**Note:** When dealing with IIS, the permissions granted to IUSR\_ *machinename* are important. For example, if you do *not* have write permission to the C drive for IUSR\_ *machinename*, an error will occur. Therefore, this directory's permissions must be set to Full Control.

Before you run your Load Balancer test, ensure that you store your **pcre.properties** file is in an appropriate folder on your report server machine and that the folder is added to your classpath as shown in the General Configuration section. For more information on setting up the pcre.properties file, refer to the Parallel Crystal 2.6 Developer's Manual. Also note, that when testing load balancing, you need to replace the server name with an appropriate channel name.





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