

Crystal Reports

Using Crystal Reports with the Visual Basic 6 Data Environment

Overview

This document covers how Crystal Reports can be used in conjunction with the Microsoft Visual Basic 6.0 Data Environment. By the completion of this document you should have learned how to use the data environment and how it can be used to report off of using the Crystal ActiveX (OCX) control.

Contents

| | |
|---|----------|
| INTRODUCTION | 2 |
| STEPS TO CONNECT THE VISUAL BASIC 6.0 DATA ENVIRONMENT..... | 2 |
| CREATING THE REPORT | 3 |
| ADDING THE SEAGATE CRYSTAL CUSTOM CONTROL (OCX) TO THE PROJECT | 3 |
| CONTACTING CRYSTAL DECISIONS FOR TECHNICAL SUPPORT | 4 |

Introduction

Visual Basic 6 includes the Data Environment which is a designer used to set up runtime access to a database(s). The Data Environment is a simple way to use ADO (ActiveX Data Objects) within a VB project. There are two main object types that need to be configured when connecting to a database using the Data Environment (these are object types of ADO):

Connection object – used to indicate which OLE DB service provider (ODBC, Jet (Access), SQL Server, Oracle) is used and any other info needed to connect to a database (such as the path to a .mdb file or a user id and password)

Command object – indicates the action that will be performed on the database. With Crystal, this will usually be a SQL SELECT statement or a Stored Procedure. The Data Environment allows you to visually create queries/SQL statements similar to creating a MS Access query.

A report using active data (such as DAO, RDO, ADO) uses the p2smon.dll (active data driver). The p2smon.dll is primarily used for development purposes (such as in a VB project) when a recordset is generated. The OCX control uses the SetTablePrivateData method to access data at runtime into the report. The syntax for the SetTablePrivateData method is:

```
CrystalReport1.SetTablePrivateData 0, 3, <ADO recordset>
```

(the first two arguments will always be 0 and 3)

Steps to connect the Visual Basic 6.0 data environment

1. Start a new project in Visual Basic 6.0.
2. Go to the Project Menu, choose More Active X Components, Data Environment. This takes you into the data environment.
3. Go to properties of the DataEnvironment1 and change the name to Xtremedb.
4. Underneath the Xtremedb environment there is another icon that says Connection1, right mouse click and pick properties. This pulls up the data link properties dialog box.
5. Choose Microsoft OLE DB Provider for ODBC Drivers.
6. Click on the next button.
7. Choose your datasource from the dropdown box that is labeled use data source name.
8. Press the OK button.
9. Right mouse click on the Connection1 again but this time choose Add Command.
10. Right mouse click on the Command1 icon and pick properties.
11. For Command Name Type Employee, keep the Connection as the same.

12. For Source of Data:
Database Object – choose table
Object Name – Employee
Choose OK

Creating the Report

1. Open the Crystal Reports designer.
2. Under the File Menu, New, Custom Report, SQL/ODBC. This will pull up the Logonserver dialog box.
3. Pick Active Data [ADO], then OK.
4. This pulls up the Select Data Source dialog box, select your datasource from the dropdown box then press the Next button
5. Fill in your UserName and Password if needed then press the Finish button
6. The Choose SQL table dialog box comes up, pick ADO
7. This allows you to insert the fields on to the report.
8. Once you have placed all of the desired fields on the report, Save it as Adotest.rpt

Adding the Seagate Crystal Custom Control (OCX) to the Project

1. Go to the Project Menu, Components, put a check mark next to the “Crystal Reports Control”.
2. Add the Crystal ActiveX (OCX) control to your form.
3. Add a button to the form.
4. Add this code to the command button:

```
Private Sub Command1_Click()  
CrystalReport1.ReportFileName = "c:\crw7_32\adotest.rpt"  
Xtremedb.Employee ' populate the data  
CrystalReport1.SetTablePrivateData 0, 3,  
Xtremedb.rsEmployee 'sets the report to the recordset  
CrystalReport1.Action = 1  
End Sub
```

Contacting Crystal Decisions for Technical Support

We recommend that you refer to the product documentation and that you visit our Technical Support web site for more resources.

Self-serve Support:

<http://support.crystaldecisions.com/>

Email Support:

<http://support.crystaldecisions.com/support/answers.asp>

Telephone Support:

<http://www.crystaldecisions.com/contact/support.asp>