

Crystal Reports

Crystal Reports Automation Server - Exporting

Overview

This module describes how to export a report using the Seagate Crystal Reports Automation Server (SCRAS). The project was developed using Microsoft Visual Basic 5.0, but similar techniques will apply in Visual Basic 4.0 and 6.0. On completion of this module you will be able to create a Visual Basic project that will export a report "manually" (under user control) and programmatically, independent of the user.

The project assumes the existence of at least one Seagate Crystal Reports file (.RPT) and will use a Common Dialog Box to select the report to be exported.

The objects, properties and methods that will be specifically mentioned and worked with in this module are:

- Application
- Report
- Export
- ExportOptions
- crEDTDiskFile
- crEFTWordForWindows
- DiskFileName
- MailSubject
- MailMessage
- MailToList
- FormatType

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Creating the application allowing a "manual" export.

At this point, you should have already added the SCRAS to your Visual Basic project and created a report to be used within this Visual Basic application. If you are not sure how to do this, see the Automation Basic document in the Oleq directory.

Double-click on the Common Dialog icon to place the control onto the form. Drag the icon out of the way, into a corner; it is invisible at run time.

Put a command button in the upper left of the form. In the Properties Box, change its name to cmdReport, and its caption to "Choose Report". Put another command button in the middle left of the form. In the Properties Box, change its name to cmdExpMan, and its caption to "Export (Manual)". Put another command button in the lower right of the form. In the Properties Box, change its name to cmdExit, and its caption to "Exit".

Within the General Declarations portion of Visual Basic, enter the following:

```
Dim ReportFileName as String
Dim CrystalApplication As CRPEAuto.Application
Dim CrystalReport As CRPEAuto.Report
```

Explanation of the code above:

In the General Declarations, we will declare the Application and Report objects.

| | |
|-------------|--|
| NOTE | These objects are declared here because they will not go out of Scope when a command button tries to execute the report. |
|-------------|--|

In the Form Load event, enter the following:

```
Private Sub Form_Load()
    Set CrystalApplication =
        CreateObject("Crystal.CRPE.Application")
End Sub
```

The application is created in the Form Load so that it can be accessed anywhere in the form. Code for "Choose Report" Button:

Double click on the "Choose Report" button to enter the following code:

```
Private Sub cmdReport_Click()
    CommonDialog1.Filter = "Crystal Reports
(*.RPT) | *.RPT"
    CommonDialog1.ShowOpen
    If Len(CommonDialog1.filename) = 0 Then
        Exit Sub
    End If
```

```
ReportFileName = CommonDialog1.filename
Set CrystalReport =
CrystalApplication.OpenReport(ReportFileName)
End Sub
```

Code for manual Export:

Double click on the "Export (Manual)" button to enter the following code:

```
Private Sub cmdExpMan_Click()
    If Len(ReportFileName) = 0 Then
        MsgBox "Error: First you must choose a Report
File Name."
        Exit Sub
    End If
    Call CrystalReport.Export(True)
End Sub
```

Code for Exit Button:

Double click on the "Exit" button to enter the following code:

```
Private Sub cmdExit_Click()
    End
End Sub
```

The Project is now complete. Notice that all output options must be specified by the user. Modifying the Project to allow a "programmatic" export. To demonstrate the export of a report without operator intervention, follow these steps:

Place a new command button in the lower left of the form. In the Properties Box, change the name to cmdExpSil, and its caption to "Export to Word". Within the General Declarations section of the form, add the following:

```
Dim CrystalOptions As CRPEAuto.ExportOptions
```

Code for "Export to Word" button:

```
Private Sub cmdExpSil_Click()
    If Len(ReportFileName) = 0 Then
        MsgBox "Error: First you must choose a Report
File Name."
        Exit Sub
    End If
    Set CrystalOptions = CrystalReport.ExportOptions
    CrystalOptions.DestinationType = crEDTDiskFile
    CrystalOptions.FormatType = crEFTWordForWindows
```

```
CrystalOptions.DiskFileName = "C:\TEMP\EXPTEST.DOC"  
Call CrystalReport.Export(False)  
End Sub
```

Running the project and clicking on the "Export to Word" button will cause the exported report to be written in Word format to "C:\TEMP\EXPTEST.DOC" .

Modifying the Project to allow an export to Email

The Project may be further extended to permit a "programmatic" export to Email:

Place another command button in the middle right of the form. In the Properties Box, change its name to cmdEmail, and its caption to "Email Report".

Code for "Email Report" button:

```
Private Sub cmdEmail_Click()  
    If Len(ReportFileName) = 0 Then  
        MsgBox "Error: First you must choose a Report  
        File Name."  
        Exit Sub  
    End If  
    Set CrystalOptions = CrystalReport.ExportOptions  
    CrystalOptions.DestinationType = crEDTEMailMAPI  
    CrystalOptions.MailSubject = "Testing Report Export  
    via Email"  
    CrystalOptions.MailMessage = "Here is the latest  
    test."  
    CrystalOptions.MailToList = "Recipient Name"  
    CrystalOptions.FormatType = crEFTText  
    Call CrystalReport.Export(False)  
End Sub
```

Running the project and clicking on the "Email Report" button will cause the exported report to be sent (in Text format) via Email to the named recipient.

References

The following reference materials were used during the creation of this Tech Support document, or are recommended for further reading on subjects covered by the Topics of this Module Section.

- Seagate Crystal Reports Technical Reference Manual (Techref.pdf) p.92
- Seagate Crystal Reports Developer's Help (Developr.hlp)

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>