



FAQ# 26-05310203
Modified 05/31/02

Subreport Management: includes logon, changing data sources and parameters

Every sub report conceptually is a report within the original main report and once you have a sub report, you need to work with it or any of its aspects just as if it were a standard Report object. You can manipulate sub reports in the exact same ways that you can manipulate reports.

There are two ways of accessing a sub report. You can either access it:

Directly by sub report name

or

Through the GetNSubreportsInSection () and GetNthSubreportInSection () methods in the PCREJob class.

PCREJob.GetNthSubreportInSection() does not actually retrieve the Nth sub report but rather the Nth subreport's information, including the subreport's name, which you can then use to open the subreport using PCREEngine.OpenSubreport () method.

Once you are done configuring the sub report, call CloseSubReport() on the sub report PCREJob. This method has no effect on PCREJobs that do not represent sub reports. Also, sub reports cannot be run as separate reports from their parent.

Changing the data sources at run-time in a main report and in sub reports.

How to generate a parameter report that also has linked sub reports.

The following code sample demonstrates how to:

- 1) Identify the sub reports in a main report
- 2) Set the logon info for tables in main report and sub reports at run-time (in a single loop)
- 3) Set the parameters in report.

The main report used for this code sample namely Dyna_mainReport.rpt uses data from a single table - "Customers" and has a sub report linked by a parameter "city". The sub report uses data from a table called "Orders" from the same database as Customers table.

Please note that in the code sample by setting propagate to True in PCREJob.SetNthTableLogOnInfo() method, the logon info will be applied to all other tables in the same Database in the main report **but not for tables in the sub report**. Sub reports need to be processed separately from the main report.



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Java Code Sample:

```
import com.mobileapps.pcre.*;
class subReportTest
{
    public static void main(String [] args)
    {
        try
        {
            PCREApplicationClient client=null;
            client=new PCREApplicationClient("lakshmi");
            client.Connect();
            PCREEngine engine=client.OpenEngine();
            PCREJob job=engine.OpenJob("C:\\subreporttest\\Dyna_MainReport.rpt");

//Create new logon info
            PCRELogOnInfo logonInfo;
            logonInfo = job.GetNthTableLogOnInfo(0);
            logonInfo.ServerName = "MSSQLTEST";
            logonInfo.DatabaseName = "DevNorthwind";
            logonInfo.UserID = "TestDev";
            logonInfo.Password = "TestDev";

//logon to the server here
            boolean logOnStatus = engine.LogOnServer ("p2ssql.dll", logonInfo);
            if (logOnStatus)
                System.out.println("Log on succeeded");
            Else
                System.out.println("Log on failed");

//Propagate is set to true to tell the server to try to use this logon
//information for the other tables in the main report that use the same
//database but not tables in subreports
            job.SetNthTableLogOnInfo(0,logonInfo,true);

//Logon for subreports
            int numSections = job.GetNSections();
            for(int i=0;i<numSections;i++){
                int sectionCode = job.GetSectionCode(i);
                int numSubReports = job.GetNSubreportsInSection(sectionCode);
                for(int j=0;j<numSubReports;j++) {
                    PCRESubreportInfo subInfo = job.GetNthSubreportInSection(sectionCode,j);
                    PCREJob subReport = engine.OpenSubreport(job,subInfo.name);
                    PCRELogOnInfo sLogonInfo=new PCRELogOnInfo();
                    sLogonInfo.ServerName = "MSSQLTEST";
                    sLogonInfo.DatabaseName = "ProdNorthwind";
                    sLogonInfo.UserID = "ProdTest";
                    sLogonInfo.Password = "ProdTest";
                    subReport.SetNthTableLogOnInfo (0,logonInfo,true);
                    subReport.CloseSubreport(subReport);
                }
            }

//set parameter in main report
            PCREValueInfo valueInfo = new PCREValueInfo();
            valueInfo.viString("Berlin");
            job.AddParameterCurrentValue("City","",valueInfo);
            job.OutputToPDF("C:\\subreporttest\\ReportOutput.pdf",null);
            job.Start();
        }
    }
}
```



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```
        job.Close();  
        engine.Close();  
        client.Quit();  
    }  
    catch (Exception e)  
    {  
        e.printStackTrace();  
    }  
}
```

ASP Code Sample:

```
<%  
Set objClient = Server.CreateObject("PCRE.PCREApplicationClient")  
Set objGateway = objClient.getGateway  
objGateway.SetHost "lakshmi"  
objClient.Connect  
Set objEngine = objClient.OpenEngine  
Set job  
=objEngine.OpenJob("C:\Inetpub\wwwroot\Subreportwithparamtest\Dyna_MainReport.rpt")
```

```
'Create new logon info  
set logOnInfo = Server.CreateObject("PCRE.PCRELogOnInfo")  
logOnInfo.ServerName = "MSSQLTEST"  
logOnInfo.DatabaseName = "ProdNorthwind"  
logOnInfo.UserID = "ProdTest"  
logOnInfo.Password = "ProdTest"
```

```
'logon to the server here  
logOnStatus = objEngine.LogOnServer ("p2ssql.dll", logOnInfo)
```

```
If (logOnStatus)Then  
    Response.write("Log on succeeded")  
Else  
    Response.write("Log on failed")  
End If
```

'Propagate is set to true to tell the server to try to use this logon information
'for other tables in the main report that are in the same database but not for tables in subreports



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```
call job.SetNthTableLogOnInfo (0,logonInfo,true)
```

```
'Logon for subreports
```

```
numSections = job.GetNSections()
```

```
for i = 0 to numSections-1
```

```
    section = job.GetSectionCode(i)
```

```
    numSubReports = job.GetNSubreportsInSection(section)
```

```
    for j = 0 to numSubReports-1
```

```
        Dim subInfo
```

```
        set subInfo = job.GetNthSubreportInSection(section, j)
```

```
        Dim subReport
```

```
        set subReport = objEngine.OpenSubreport(job, subInfo.name)
```

```
        set info = Server.CreateObject("PCRE.PCRELogOnInfo")
```

```
        info.ServerName = "MSSQLTEST"
```

```
        info.DatabaseName = "ProdNorthwind"
```

```
        info.UserID = "ProdTest"
```

```
        info.Password = "ProdTest"
```

```
        call subReport.SetNthTableLogOnInfo (0,info,true)
```

```
        subReport.CloseSubreport(subReport)
```

```
    Next
```

```
Next
```

```
' set parameter in main report
```

```
set ValueInfo = Server.CreateObject("PCRE.PCREValueInfo")
```

```
ValueInfo.viString "Berlin"
```

```
job.AddParameterCurrentValue "City","",ValueInfo
```

```
job.OutputToPdf "C:\inetpub\wwwroot\Subreportwithparamtest\subreporttest.pdf", null
```

```
job.Start
```

```
job.Close
```

```
objengine.Close
```

```
objclient.Quit
```

```
Set job = Nothing
```

```
Set objengine = Nothing
```

```
Set objclient = Nothing
```

```
%>
```