

Autogenerate Qlikview reports as PDF and mail them without the need of Qlikview Publisher.

This is what you need:

- *Server with Qlikview Developer installed. And on it, a user account with write access to a folder on the server*
- *On the same server, some kind of a PDF generator must be installed. There are many to choose among and Qlikview support all that handle COM/Automation and receive calls through VBS or JS.*
- *Qlikview two different generators that is downloadable from their web, depending on which Qlikview version you are running.*

Example: I have tried "PDFGenerator" and got it to work with QV9:

<http://sourceforge.net/projects/pdfcreator/>

- *The Server and the user must also have rights to run scripts for "Microsoft Schedules Tasks", if you want automated generation.*
- *The firewall for the must allow http (port 80) calls to and from <http://schemas.microsoft.com/cdo/configuration>*

Create your document in Qlikview like always; the rest is handled in macros and in scheduled tasks.

Autogenerate Qlikview PDF reports and mail them out.

How it all works:

Create a job in scheduled tasks like this:

C:\Program\QlikView\Enterprise\qve.exe /vMailReports=1 /NoSecurity c:\temp\Sales.qvw

*This row will start Qlikview with the document Sales.QVW, and it will start it by setting the variable called **MailReports=1***

➔ *So in your document, you must create this variable called **MailReports***

The name of the variable is not important, but if you change this name, you must change it in macros below and the Task line above.

In your document, you must have these macros (and "allow system access" on local security and module security):

This macro should be connected to the trigger "Trigger On open document".

```
Sub OnOpenDocument
    call Check_if_send_mail
End Sub
```

This macro checks the value of the start parameter (the variable that you created). If it is equal to 1, the the next Sub "Print_and_mail_Report " will start (and after that, the variable is set to 0 and application will end), else nothing will happen and the macro ends, this is then assuming that a normal user opened the document, which should not generate any mail.

```
sub Check_if_send_mail
    set var = ActiveDocument.Variables("vMailReports").String
    if val = 1 then
        call Print_and_mail_Report
        ActiveDocument.ClearAll
        var.SetContent 0, true
        activedocument.closedoc
        ActiveDocument.GetApplication.Quit
    end if
End Sub
```

This macro calls the sub that creates the "dimension selections" in your document.

Then, the macro "Print_Report" starts and it creates the actual PDF report file. Then it makes sure that that report actually was created, and if it was, then it mails that report with the last macro "Mail_Report"

```
sub Print_and_mail_Report
```

Autogenerate Qlikview PDF reports and mail them out.

```
call MakeCompleteSelection  
call Print_Report  
checkOutputFile "c:\test.pdf"  
call Mail_Report  
End Sub
```

This macro clears all selections that was made. Then selectes "10" in the field my_Fieldname. If no selections should be made, just blank out the GetField line, or change the field name to whatever if you need to make selections. This macro can be made a lot more complex...

```
Sub MakeCompleteSelection  
ActiveDocument.ClearAll  
ActiveDocument.GetField("my_Fieldname").Select "10"  
end sub
```

This macro runs the qlikview report named "RP01" by using the PDFCreator software.

```
sub Print_Report  
dim DefaultPrinter  
Set PDFCreator = CreateObject("PDFCreator.clsPDFCreator")  
PDFCreator.cStart "/NoProcessingAtStartup"  
PDFCreator.cOption("UseAutosave") = 1  
PDFCreator.cOption("UseAutosaveDirectory") = 1  
PDFCreator.cOption("AutosaveDirectory") = "C:\"  
PDFCreator.cOption("AutosaveFormat") = 0  
PDFCreator.cOption("AutosaveFilename") = "test.pdf"  
DefaultPrinter = PDFCreator.cDefaultprinter  
PDFCreator.cDefaultprinter = "PDFCreator"  
PDFCreator.cClearcache
```

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```
PDFCreator.cPrinterStop = FALSE  
  
ActiveDocument.PrintDocReport "RP01", "Report01"  
  
End Sub
```

This is an alternative solution to the above, if the QlikviewPDF software is used instead.

```
sub Print_Report  
  
Set WSHShell = CreateObject("WScript.Shell")  
  
WSHShell.RegWrite "HKCU\Software\QlikviewPDF\OutputFile", "c:\test.pdf", "REG_SZ"  
  
WSHShell.RegWrite "HKCU\Software\QlikviewPDF\BypassSaveAs", "1", "REG_SZ"  
  
Set WSHShell = nothing  
  
ActiveDocument.PrintReport "RP01", "QlikviewPDF", false  
  
end sub
```

This macro will mail a file, preferably the previously created file...

It requires no installed software on your server, but your SMTP server must be quite "allowing", but it usually works if it is on the same Domain as the Qlikview server...

```
function Mail_Report()  
  
Dim objEmail  
  
Const cdoSendUsingPort = 2  
  
Const cdoAnonymous = 0  
  
Const cdoBasic = 1  
  
Const cdoNTLM = 2  
  
SMTPServer = "smtpserver.mydomain.se"  
  
Const SMTPPort = 25  
  
Const SMTPTimeout = 60  
  
Set objEmail = CreateObject("CDO.Message")  
  
Set objConf = objEmail.Configuration  
  
Set objFlds = objConf.Fields
```

With objFlds

```
.Item("http://schemas.microsoft.com/cdo/configuration/sendusing") = cdoSendUsingPort  
.Item("http://schemas.microsoft.com/cdo/configuration/smtpserver") = SMTPServer  
.Item("http://schemas.microsoft.com/cdo/configuration/smtpauthenticate") = cdoAnonymous  
.Item("http://schemas.microsoft.com/cdo/configuration/smtpserverport") = SMTPPort  
.Item("http://schemas.microsoft.com/cdo/configuration/smtpusessl") = False  
.Item("http://schemas.microsoft.com/cdo/configuration/smtpconnectiontimeout") =  
SMTPTimeout
```

.Update

End With

```
objEmail.To = "pink@floyd.com"  
objEmail.From = "roger@waters.com"  
objEmail.Subject = "Regarding Syd"  
objEmail.TextBody = "Good luck..."  
objEmail.AddAttachment "c:\test.pdf"  
objEmail.Send  
Set objFlds = Nothing  
Set objConf = Nothing  
Set objEmail = Nothing  
end function
```

This is the macro that checks if the file exists, if it does not, it will pause 5 seconds and it will check again...sometimes it takes time to save the PDF completely once it has been created.

Function checkOutputFile(pdfFile)

```
Set fileTest = CreateObject("Scripting.FileSystemObject")  
currentStatus = fileTest.FileExists (pdfFile)  
if currentStatus = false then  
ActiveDocument.GetApplication.sleep 5000  
checkOutputFile(pdfFile)  
end if
```

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```
set fileTest = nothing  
end function
```

Final notes:

There are many steps that can go wrong, so this is not a great solution for business critical reports. If you get errors or if no mail is sent etc, check these steps:

- 1. Make sure that your document actually is started by Scheduler. Do this by setting up a time and be on the server at that time You should see Qlikview being started...*
- 2. Check that when the document is started by Scheduler, the variable is set to 1, and then set to 0 afterwards correctly.*
- 3. Check that when the variable is = 1, the macro is being activated by the trigger. Add some msgbox...*
- 4. Make sure that PDF creation works by adding a button that is calling the Print_Report macro only. Push the button, if this doesn't work, then nothing will work.*
- 5. Check that scheduler can start the document and create the PDF while you are NOT logged into the server.*
- 6. Create a button and check that you can call the Mail_Report macro, and that it can send mails...*

And.... Good luck. You will need it....