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QlikView Macros – Useful collection

Posted on [July 18, 2013](#) by [luciancotea](#) — [24 Comments](#)

Macros are very important feature of QlikView. Here is a collection of useful functions I encountered over the years. I will update this collection whenever I get the chance and you may suggest new code. Please note that some of them require system access.

1) Run external program:

```
FUNCTION RunExe (cmd)
    CreateObject ("WScript.Shell").Exec (cmd)
END FUNCTION

SUB CallExample
    RunExe ("c:\Program Files\Internet Explorer\iexplore.exe")
END SUB
```

2) Export object to Excel

```
FUNCTION ExcelExport (objID)
    set obj = ActiveDocument.GetSheetObject ( objID )
    w = obj.GetColumnCount
    if obj.GetRowCount>1001 then
        h=1000
    else h=obj.GetRowCount
    end if
    Set objExcel = CreateObject("Excel.Application")
    objExcel.Workbooks.Add
    objExcel.Worksheets(1).select()
    objExcel.Visible = True
    set CellMatrix = obj.GetCells2(0,0,w,h)
    column = 1
    for cc=0 to w-1
        objExcel.Cells(1,column).Value = CellMatrix(0)(cc).Text
        objExcel.Cells(1,column).EntireRow.Font.Bold = True
        column = column +1
    next
    c = 1
    r =2
    for RowIter=1 to h-1
        for ColIter=0 to w-1
            objExcel.Cells(r,c).Value = CellMatrix(RowIter)(ColIter).Text
            c = c +1
        next
        r = r+1
        c = 1
    next
END FUNCTION

SUB CallExample
    ExcelExport ( "CH01" )
END SUB
```

3) Export object to JPG

```
FUNCTION ExportObjectToJpg( ObjID, fName)
    ActiveDocument.GetSheetObject(ObjID).ExportBitmapToFile fName
END FUNCTION

SUB CallExample
    ExportObjectToJpg "CH01", "C:\CH01Image.jpg"
END SUB
```

4) Export object from a hidden sheet to JPG

```
FUNCTION ExportObjectToJpg(SheetID, ObjID, fName)
    set s=ActiveDocument.GetSheetById(SheetID)
    set sp=s.GetProperties
    sp.Show.Always = true
    s.SetProperties sp
    s.Activate
    for i=0 to s.NoOfSheetObjects-1
        if s.SheetObjects(i).GetObjectID = ObjID then
            ActiveDocument.GetApplication.WaitForIdle
            s.SheetObjects(i).ExportBitmapToFile fName
        end if
    next
END FUNCTION

SUB setVariable(varName, varValue)
    set v = ActiveDocument.Variables(varName)
    v.SetContent varValue, true
END SUB

SUB CallExample
    ' "vShow" is the variable which controls the visibility of the sheet: Sheet properties -> Show Sheet ->
    Conditional: =vShow
    setVariable "vShow", 1
    set ss= ActiveDocument.GetSheet(0)
    ExportObjectToJpg "Document\SH02", "Document\CH01", "D:\CH01Image.jpg"
    ActiveDocument.GetSheetById(ss.GetProperties.SheetId).Activate
    setVariable "vShow", 0 ' replace 0 with your own condition to hide the sheet
END SUB
```

5) Save and exit QlikView

```
SUB SaveAndQuit
    ActiveDocument.Save
    ActiveDocument.GetApplication.Quit
END SUB
```

6) Clone Dimension Group

```
SUB DuplicateGroups
    SourceGroup = InputBox("Enter Source Group Name")
    CopiesNo = InputBox("How many copies?")
    SourceGroupProperties = ActiveDocument.GetGroup(SourceGroup).GetProperties
    FOR i = 1 TO CopiesNo
        SET DestinationGroup = ActiveDocument.CreateGroup(SourceGroupProperties.Name & "_" & i)
        SET DestinationGroupProperties = DestinationGroup.GetProperties
        IF SourceGroupProperties.IsCyclic THEN
            DestinationGroupProperties.IsCyclic = true
            DestinationGroup.SetProperties DestinationGroupProperties
        ELSE

```

```

        SourceGroupProperties.IsCyclic = true
        DestinationGroupProperties.SetProperties SourceGroupProperties
    END IF
    SET Fields = SourceGroupProperties.FieldDefs
    FOR c = 0 TO Fields.Count-1
        SET fld = Fields(c)
        DestinationGroup.AddField fld.name
    NEXT
    Application.waitforidle
NEXT
END SUB

```

7) Open document with selection of current month

```

SUB DocumentOpen
    ActiveDocument.Sheets("Intro").Activate
    ActiveDocument.ClearAll (true)
    ActiveDocument.Fields("YearMonth").Select ActiveDocument.Evaluate("Date(MonthStart(Today(), 0), 'MMM-
YYYY')")
END SUB

```

8) Read and Write variables

```

FUNCTION getVariable(varName)
    set v = ActiveDocument.Variables(varName)
    getVariable = v.GetContent.String
END FUNCTION

SUB setVariable(varName, varValue)
    set v = ActiveDocument.Variables(varName)
    v.SetContent varValue, true
END SUB

```

9) Open QlikView application, reload, press a button and close (put the code in a .vbs file)

```

Set MyApp = CreateObject("QlikTech.QlikView")
Set MyDoc = MyApp.OpenDoc ("C:\QlikViewApps\Demo.qvw", "", "")
Set ActiveDocument = MyDoc
ActiveDocument.Reload
Set Button1 = ActiveDocument.GetSheetObject("BU01")
Button1.Press
MyDoc.GetApplication.Quit
Set MyDoc = Nothing
Set MyApp = Nothing

```

10) Delete file

```

FUNCTION DeleteFile(rFile)
    set oFile = createObject("Scripting.FileSystemObject")

    currentStatus = oFile.FileExists(rFile)

    if currentStatus = true then
        oFile.DeleteFile(rFile)
    end if
    set oFile = Nothing
END FUNCTION

SUB CallExample
    DeleteFile ("C:\MyFile.PDF")
END SUB

```

11) Get reports information

```
function countReports
  set ri = ActiveDocument.GetDocReportInfo
  countReports = ri.Count
end function

function getReportInfo (i)
  set ri = ActiveDocument.GetDocReportInfo
  set r = ri.Item(i)
  getReportInfo = r.Id & "," & r.Name & "," & r.PageCount & CHR(10)
end function
```

12) Send mail using Google Mail

```
SUB SendMail
  Dim objEmail

  Const cdoSendUsingPort = 2 ' Send the message using SMTP
  Const cdoBasicAuth = 1    ' Clear-text authentication
  Const cdoTimeout = 60     ' Timeout for SMTP in seconds

  mailServer = "smtp.gmail.com"
  SMTPport = 465
  mailusername = "MyAccount@gmail.com"
  mailpassword = "MyPassword"

  mailto = "destination@company.com"
  mailSubject = "Subject line"
  mailBody = "This is the email body"

  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") = mailServer
    .Item("http://schemas.microsoft.com/cdo/configuration/smtpserverport") = SMTPport
    .Item("http://schemas.microsoft.com/cdo/configuration/smtpusessl") = True
    .Item("http://schemas.microsoft.com/cdo/configuration/smtpconnectiontimeout") = cdoTimeout
    .Item("http://schemas.microsoft.com/cdo/configuration/smtpauthenticate") = cdoBasicAuth
    .Item("http://schemas.microsoft.com/cdo/configuration/sendusername") = mailusername
    .Item("http://schemas.microsoft.com/cdo/configuration/sendpassword") = mailpassword
    .Update
  End With

  objEmail.To = mailto
  objEmail.From = mailusername
  objEmail.Subject = mailSubject
  objEmail.TextBody = mailBody
  objEmail.AddAttachment "C:\report.pdf"
  objEmail.Send

  Set objFlds = Nothing
  Set objConf = Nothing
  Set objEmail = Nothing
END SUB
```

13) Autozoom sheet to fit the window

```
SUB AutoZoom
```

```
ActiveDocument.GetApplication.WaitForIdle
ActiveDocument.ActiveSheet.FitZoomToWindow
```

```
END SUB
```

14) Import and export all variables from an Excel file (by [Barry](#))

```
Sub ImportVariablesFromExcel

' Imports all variable definitions from the Excel file specified in the variable 'v.FileName.Variables',
' The path to the Excel file needs to be in a relative format.
'
' Variable definitions need to be placed on a worksheet named 'Variables' and containing the following
columns:
'
' 1: Variable, name of the variable.
'
' 2: Expression, expression or value of the variable. Prefix with ' when starting with =, otherwise Excel
tries
' to interpret the expression as an Excel formula.
'
' 3: Comment, comments for the variable.

Set doc = ActiveDocument
Set wbFilename = ActiveDocument.GetVariable("v.FileName.Variables")

If wbFilename is Nothing then

' The variable that stores the location of the variables Excel file does not exist
MsgBox "The required variable 'v.FileName.Variables' does not exists!", 16, "Error"

Else

If Instr(Lcase(wbFilename.GetRawContent), "xls") = 0 then

' The variable exists, but does not contain a valid Excel filename (based on looking for the 'xls' part)
MsgBox "No valid Excel filename specified in variable 'v.FileName.Variables'", 16, "Error"

Else

'Get the path of the current QVW
QvwPath = Left(ActiveDocument.GetProperties.FileName,
InStrRev(ActiveDocument.GetProperties.FileName, "\"))

' Initialize Excel, open the file and get a reference to the Variables worksheet
Set objExcel = CreateObject("Excel.Application")
Set objWorkbook = objExcel.Workbooks.Open(QvwPath & wbFilename.GetRawContent)
Set objSheet = objWorkbook.Sheets("Variables")

' Ignore the header by starting on the second row
i = 2

' Create a new variable (or overwrite if it already exists) for each row in the worksheet
Do while not IsEmpty(objSheet.Cells(i, 1))

doc.CreateVariable(objSheet.Cells(i, 1).Value)

Set v = doc.Variables(objSheet.Cells(i, 1).Value)

v.SetContent objSheet.Cells(i, 2).Value, true
v.SetComment objSheet.Cells(i, 3).Value

i = i + 1

End If

End If

End Sub
```

```

        Loop

        ' Close Excel, otherwise we'll be left with running instances in the background
objWorkbook.Saved = True
objWorkbook.Close
objExcel.Quit

Set objSheet = Nothing
Set objWorkbook = Nothing
    Set objExcel = Nothing

End If

End If

End Sub

Sub ExportVariablesToExcel

' Exports all variables, with the exception of QlikView specific variables, to a new
' Excel workbook in a worksheet called 'Variables', this sheet contains 3 columns:
'
' 1: Variable, name of the variable.
'
' 2: Expression, expression or value of the variable. Prefix with ' when starting with =, otherwise Excel
tries
'    to interpret the expression as an Excel formula.
'
' 3: Comment, comments for the variable.

Set doc = ActiveDocument

Set objExcel = CreateObject("Excel.Application")
Set objWorkbook = objExcel.Workbooks.Add
    Set objSheet = objWorkbook.Sheets.Add

    objSheet.Name = "Variables"
objSheet.Cells(1, 1).Value = "Variable"
objSheet.Cells(1, 2).Value = "Expression"
objSheet.Cells(1, 3).Value = "Comment"

Set vars = ActiveDocument.GetVariableDescriptions

r = 2

For i = 0 to vars.Count - 1

Set v = vars.Item(i)

        ' Exclude all QlikView specific variables
If not v.IsConfig and not v.IsReserved then

    objSheet.Cells(r, 1).Value = v.Name

        ' Excel treats expressions starting with = as an Excel formula,
        ' so prefix with ' to indicate that it should be treated as text
        if Left(v.RawValue, 1) = "=" then
            objSheet.Cells(r, 2).Value = "'" & v.RawValue
        else
            objSheet.Cells(r, 2).Value = v.RawValue
        end if

    objSheet.Cells(r, 3).Value = ActiveDocument.Variables(v.Name).GetComment


```

```

    r = r + 1
end if

next

' Show Excel so the exported variables can be inspected before saving
objExcel.Visible = True

End Sub

```

15) Add conditional expression to chart

```

SUB AddConditionalExpressionToExistingChart

set chart = ActiveDocument.GetSheetObject("CH01")
    ExpNo = chart.AddExpression( "sum( Expression1 )" )

set cp = chart.GetProperties
set ExpVis = cp.Expressions.Item(ExpNo).Item(0).Data.ExpressionVisual

ExpVis.Label.v = "Sales"
ExpVis.NumAdjust = 1      'center
ExpVis.LabelAdjust = 1    'center

set ExpCond= cp.Expressions.Item(ExpNo).Item(0).Data.EnableCondition

ExpCond.Type = 2
ExpCond.Expression = "sum( Expression1 ) > 0"

chart.SetProperties cp

END SUB

```

16) Change layout property to all object in one step (AllowMoveSize = False)

```

SUB BlockObjects

for s = 0 to ActiveDocument.NoOfSheets - 1
    set vSheet = ActiveDocument.GetSheet(s)
    Objects = vSheet.GetSheetObjects
    For i = lBound(Objects) To uBound(Objects)
        set vObject = Objects(i)
        set vObjectFrame = vObject.GetFrameDef
        vObjectFrame.AllowMoveSize = false
        vObject.SetFrameDef vObjectFrame
    Next
next

END SUB

```

17) Reset INPUT FIELD

```

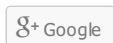
SUB ResetInputField
    set fld = ActiveDocument.Fields("FieldName")
    fld.ResetInputFieldValues 0
END SUB

```

Happy Qliking!

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24 comments on “QlikView Macros – Useful collection”



[Alan Farrell \(@RustyFishBones\)](#) says:

August 26, 2013 at 20:25

Thanks for the Tips, anymore tips on EXECUTE commands

[Reply](#)



[luciancotea](#) says:

September 5, 2013 at 07:15

The EXECUTE command is pretty straightforward, examples in the Help file are clear.

However, I wish that EXECUTE command could retrieve the exit info of the invoked programs.

[Reply](#)



[jgreauJosé Luis](#) says:

September 5, 2013 at 02:26

Hi!

I was trying to send mails with Macros, but with my company mail (hosted).

When i sent a mail with google mail, there's no problem, but when I modify the parameters to send a mail with my company mail, it shows an error (transpor error with the conection to the server)

```
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/sendusing") = 2
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserver") = "mail.qvalue.cl"
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpserverport") = 2525

msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpauthenticate") = 1
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/sendusername") = "user@mail.com"
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/sendpassword") = "password"
msgConf.Fields.Item("http://schemas.microsoft.com/cdo/configuration/smtpusessl") = 0
```

(the configuration tutorial says that if i want to send mails witout ssl, I have to use these parameters)

What is wrong with these?

Regards

[Reply](#)



luciancotea says:
September 5, 2013 at 07:11

You have to take it to the local system admin. Maybe you have the wrong settings or you can't reach the server.

[Reply](#)



Timo says:
September 26, 2013 at 08:36

Hi,
thanks for sharing this!

I've been searching though how to get a system name of QV settign field to be used in macro?

For example in Expression sheet of Chart properties there's a checkbox 'Values on Data Points'. Could you advice how do I get the name of that or any other field for using it in macro?

Thanks for your help in advance,

Timo

[Reply](#)



luciancotea says:
September 26, 2013 at 08:46

To learn object properties, you can use the "API Guide" QlikView file that comes with QlikView installation. Or you can download it from <http://community.qlikview.com/docs/DOC-2640>

Here's your example:

```
set chart = ActiveDocument.ActiveSheet.CreateBarChart
chart.AddDimension "ProductType"
chart.AddExpression "count(Customer)"
set p = chart.GetProperties
set expr = p.Expressions.Item(0).Item(0).Data.ExpressionVisual
expr.ShowAsBar = true
expr.NumbersOnBars = true
chart.SetProperties p
```

[Reply](#)



Timo says:

September 26, 2013 at 08:53

Wow ^_^ that was fast reply – I downloaded the file and start to study it.

Thanks for your help!



Benny says:

November 4, 2013 at 16:46

Do I need both parts of this script for the macro? If so, what is fName?

```
FUNCTION ExportObjectToJpg( ObjID, fName)
ActiveDocument.GetSheetObject(ObjID).ExportBitmapToFile fName
END FUNCTION
```

```
SUB CallExample
ExportObjectToJpg "CH01", "C:\CH01Image.jpg"
END SUB
```

And is it possible to run this macro in the LOAD script to automate this?

Thanks

[Reply](#)



luciancotea says:

November 4, 2013 at 17:12

The FUNCTION() is the part that does the actual export. You can copy and paste it in your macro editor as is. ObjID is the object ID that you want to export and fName is the file name used for export.

The SUB part is an example of usage.

You can run a macro in the LOAD script: <http://luciancotea.wordpress.com/2013/07/04/call-vba-macro-function-from-the-load-script/>

[Reply](#)



Benny says:

November 4, 2013 at 20:02

Thanks I got the function to work but it's not working in the LOAD script.

This is what I have in my LOAD script: LET vImage = ImageExport;

ImageExport is the name of the macro.



luciancotea says:

November 4, 2013 at 20:14

In your case, I believe you try to call interface objects. They are not available at LOAD time.

You have 2 options:

1. Run your macro on a trigger OnPostReload (but it won't work on a server)
2. Run your macro from an external vbs file (see macro no 9)



Benny says:

November 4, 2013 at 20:21

What do you mean when "calling an interface object"?

I am trying to export a jpg image of an object in macro (code from your macro #4) but want this done automatically after every reload so I wanted to put it in the LOAD script.

I cannot use OnPostReload because I want to use the QEMC for a scheduled reload.
And does macro #9 require Task Scheduler? Or can that be done in LOAD script?

Thanks



luciancotea says:

November 4, 2013 at 20:31

ActiveDocument.GetSheetObject(ObjID).ExportBitmapToFile = "calling an interface object"

1. In QlikView, use a button (ID = "BU01") to run your export function.
2. Copy macro #9 into a .vbs file, and set it to run with Task Scheduler.



Benny says:

November 4, 2013 at 20:34

Unfortunately, I have come up with the same idea only using a batch file. I cannot use Task Scheduler because that needs my computer to be on. The image that gets sent out daily is needed on the weekends as well. Is there any other work around this?

Thanks for all your help and patience



luciancotea says:

November 4, 2013 at 20:38

1. Run it from the server. 2. Use a scheduler that runs as a service like JIT (<http://www.gibinsoft.net/gipoutils/fileutil/>)



Praveen says:

November 7, 2013 at 14:54

Hi,

I want to create Straight table from VBScript. with the help of one input box and one button i will do some modifications on table content and then display. Is it correct way of using VBSCRIPT for this requirement Or is there any other way to achieve this. ?

[Reply](#)



Prajna Alva says:

November 14, 2013 at 10:09

hi,

can u suggest how to export XML data in a variable from qlikview.

Regards,
Prajna

[Reply](#)



luciancotea says:

November 14, 2013 at 15:18

Hi Prajna,

I'm not sure what your question is. For quick and good help you can post your question with all the details (with an example attached) on <http://community.qlikview.com>

Lucian

[Reply](#)



jj says:

December 5, 2013 at 18:51

is it possible to use ExportBitmapToFile function to get objects from an inactive sheet ?
I tried to set up a button in one sheet that prints another that is currently not in display.

The result always seem to be a blank white page.
Even if run a macro line to activate the sheet, export, then activate back my original sheet, it wont work.

is there a solution to this ?

[Reply](#)



luciancotea says:

December 5, 2013 at 20:53

See the new "4) Export object from a hidden sheet to JPG"

[Reply](#)



jj says:

December 5, 2013 at 21:18

thanks, i realize i was missing the line "ActiveDocument.GetApplication.WaitforIdle"

[Reply](#)



Alejandro says:

January 21, 2014 at 14:31

Hello good day. wanted to know if there is any solution or any ultizar formulated to 18 digits in the numbers without becoming in scientific notation? or if you can take them as text to numbers and as the could add? I need to use 18 digit numbers to add them and you do not lose prescicion. thank you very much

[Reply](#)



Agilan says:

January 22, 2014 at 03:38

Hi, I want to export a table object into an copyable table format and use it in the body of the mail when the dashboard is hosted on the web server (run mode). How can I do it.

[Reply](#)



luciancotea says:

January 22, 2014 at 07:34

Export your table in csv or xls format, then use a tool like BLAT to create a mail with custom formatting.

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