



Using macros with Winshuttle, Connect mode

Version 10.7

Query macros	3
Run a published script	3
Run an existing Query script.....	3
Properties for a Query Addin object	3
Sample code	4
Run a published script.....	4
Run an existing Query script	5
Transaction macros.....	7
Run a published script	7
Run an existing Transaction script.....	7
Properties for a Transaction Addin object	7
Sample Code.....	8
Run a published script.....	8
Run an existing Transaction script	10
Validate an existing script (can be extended to published scripts as well)	11
Known issues.....	14

Query macros

Run a published script

1. Define Addin Objects
Dim xSHUTTLE, AddinObject
2. Get Addin Object from Excel
Set xSHUTTLE = Application.COMAddIns.Item("xSHUTTLEAddIn.AddinModule")
3. Get COM object from Addin Object
Set AddinObject = xSHUTTLE.Object.QsMacros
4. Select published file to run, define other run properties (see Properties for Query Addin Object)
AddinObject.PublishedQueryFile = "TestMacro1"
5. Run AddinObject to run Query script
AddinObject.Run

Run an existing Query script

1. Define Addin Objects
Dim xSHUTTLE, AddinObject
2. Get Addin Object from Excel
Set xSHUTTLE = Application.COMAddIns.Item("xSHUTTLEAddIn.AddinModule")
3. Get COM object from Addin Object
Set AddinObject = xSHUTTLE.Object.QsMacros
4. Select Query script to run, define other run properties (see Properties for Query Addin Object)
AddinObject.OpenQueryFile (strShuttleFile)
5. Run AddinObject to run Query script
AddinObject.Run

Properties for a Query Addin object

Run settings or advanced run options set in the script are not respected during the Macro run. These need to be set by using the various properties that have been exposed for the Addin object.

Property/Function	Value(s)/Parameter	Description
PublishedQueryFile	Published Query File Description	Selects the published file to run
OpenQueryFile()	Script file path	Selects the Query script to run
StartRow	Row Number	Excel row from which downloaded records should be written
LogColumn	Column/Cell	Column/Cell where run logs should be written

RecordsToFetch	No. of records	Number of records to be returned by the Query run
WriteHeader	True/False	Write mapping headers for the downloaded data
ExtractAllRecords	True/False	Override RecordsToFetch and extract all records
RunReason	Run reason string	Specify a reason for this run
Run	NA	Run the AddinObject script
Alf	ALF file path	Selects the auto logon file to connect with SAP server
SheetName	Sheet Number	Sheet number in the Excel file on which data should be written
RTV	Runtime values	Values can be given to fields for which criteria type is Runtime

Sample code

Run a published script

```

Sub RunPublishedQsq()
'-----
' Macro to use xSHUTTLE addin with code
'-----
'
' RunPublishedQSQfile Macro
'
    Dim xSHUTTLE, AddinObject

    On Error GoTo ErrHandler
    ' GET ADDIN OBJECT FROM EXCEL
    Set xSHUTTLE = Application.COMAddIns.Item("xSHUTTLEAddIn.AddinModule")

    If xSHUTTLE Is Nothing Then
        MsgBox "Unable to initialize object of xSHUTTLE addin"
        Exit Sub
    End If

    ' Get com object from addin object
    Set AddinObject = xSHUTTLE.Object.QsMacros
    If xSHUTTLE Is Nothing Then
        MsgBox "Unable to initialize com object of xSHUTTLE addin"
    
```

```

Exit Sub
End If

' Select the published file to Run
AddinObject.PublishedQueryFile = "TestMacro1"

AddinObject.StartRow = 2

AddinObject.LogColumn = "E"
' ALF file path need to be addressed here. Uncomment below line to use AutoLogon File.
'AddinObject.Alf = "C:\USERS\ANKURG\DOCUMENTS\WINSHUTTLE\QUERY\ALF\W6R800.ALF"

' User can specify the Sheet where data needs to be downloaded. Uncomment below line to use
Secific sheet.
AddinObject.SheetName = "Sheet2"

'Run time parameters should be script specific
'AddinObject.RTV =
rtv"ScriptName~~TableName.FieldName#Value1#Value2|Value3##Value4|Value5|Value6~TableNam
e.FieldName#Value1#Value2"
'Please see example below and uncomment below line to use Run Time Variables (RTV).
'AddinObject.RTV = "TestMacro1~~MARA.MATNR#100-100~MARC.WERKS#"

' Call the Run Function to start uploading data
AddinObject.Run
Exit Sub

ErrorHandler:
MsgBox Err.Description
End Sub

```

Run an existing Query script

```

'-----
' Macro to use runSHUTTLE addin with code
'-----
Sub RunQsqfile()
'
' RunQSQfile Macro
'
Dim xSHUTTLE, AddinObject

```

```

On Error GoTo ErrHandler
' GET ADDIN OBJECT FROM EXCEL
Set xSHUTTLE = Application.COMAddIns.Item("xSHUTTLEAddIn.AddinModule")

If xSHUTTLE Is Nothing Then
    MsgBox "Unable to initialize object of xSHUTTLE addin"
    Exit Sub
End If

' Get com object from addin object
Set AddinObject = xSHUTTLE.Object.QsMacros
If xSHUTTLE Is Nothing Then
    MsgBox "Unable to initialize com object of xSHUTTLE addin"
    Exit Sub
End If

Dim strShuttleFile As String

' open existing QSQ to Run
strShuttleFile = "C:\Users\ankurg\Documents\Winshuttle\Query\QueryFiles\Excel.qsq"
AddinObject.OpenQueryFile (strShuttleFile)

AddinObject.StartRow = 2
AddinObject.LogColumn = "E"

' ALF file path need to be addressed here. Uncomment below line to use AutoLogon File.
'AddinObject.Alf = "C:\USERS\ANKURG\DOCUMENTS\WINSHUTTLE\QUERY\ALF\W6R800.ALF"

' User can specify the Sheet where data needs to be downloaded. Uncomment below line to use
Secific sheet.
AddinObject.SheetName = "Sheet2"

'Run time parameters should be script specific
'AddinObject.RTV =
rtv"Filename~~TableName.FieldName#Value1#Value2|Value3##Value4|Value5|Value6~TableName.
FieldName#Value1#Value2"
'Please see example below and uncomment below line to use Run Time Variables (RTV).
'AddinObject.RTV = "C:\Users\ankurg\Documents\Winshuttle\Query\QueryFiles\RTV scripts\Rtv-
1.qsq~~MARA.MATNR#100-100~MARC.WERKS#"

```

```
' Call the Run Function to start uploading data
```

```
AddinObject.Run
```

```
Exit Sub
```

```
ErrorHandler:
```

```
MsgBox Err.Description
```

```
End Sub
```

Transaction macros

Run a published script

1. Define Addin Objects
Dim runSHUTTLEAddin, AddinObject
2. Get Addin Object from Excel
Set runSHUTTLEAddin = Application.COMAddIns.Item("TxRunner.AddinModule")
3. Get COM object from Addin Object
Set AddinObject = runSHUTTLEAddin.Object.TsMacros
4. Select published file to run, define other run properties (see Properties for Transaction Addin Object)
AddinObject.PublishedShuttleFile = "TestMacro1"
5. Run AddinObject to run Transaction script
AddinObject.Run

Run an existing Transaction script

1. Define Addin Objects
Dim runSHUTTLEAddin, AddinObject
2. Get Addin Object from Excel
Set runSHUTTLEAddin = Application.COMAddIns.Item("TxRunner.AddinModule")
3. Get COM object from Addin Object
Set AddinObject = runSHUTTLEAddin.Object.TsMacros
4. Select Transaction script to run, define other run properties (see Properties for Transaction Addin Object)
AddinObject.OpenShuttleFile (strShuttleFile)
5. Run AddinObject to run Transaction script
AddinObject.Run

Properties for a Transaction Addin object

Run settings or advanced run options set in the script are not respected during the macro run. These need to be set by using the various properties that have been exposed for the Addin object.

Property/Function	Value(s)/Parameter	Description
PublishedShuttleFile	Published Transaction script Description	Selects the published file to run
OpenShuttleFile()	Script file path	Selects the Transaction script to run
StartRow	Row Number	Excel Row from which data upload should start
EndRow	Row Number	Excel Row to which data should be uploaded
LogColumn	Column/Cell	Column/Cell where run logs should be written
RunReason	Run reason string	Specify a reason for this run
TypeOfRun	0 – Run Now 1 – Run On Errors 2 – Step By Step Stop On All Screens 3 – Step By Step Stop On Errors 4 - Step by Step Run on Errors	Select the type of run from the possible values
RunOnRows	0 – As in Transaction Script 1 – Selected rows 2- Filtered rows	Selection of rows: Start/End Row or Selected or Filtered rows
Run	NA	Run the AddinObject script
Validate	NA	Validate the AddinObject script
AlfPath	ALF file path	Selects the auto logon file to connect with SAP server
SheetName	Sheet Number	Sheet number in the Excel file on which data should be written

Sample Code

Run a published script

```
Sub RunPublishedSHUTTLEfile()
'
' RunPublishedSHUTTLEfile Macro
'
    Dim runSHUTTLEAddin, AddinObject

    On Error GoTo ErrHandler
```



```

' GET ADDIN OBJECT FROM EXCEL
Set runSHUTTLEAddin = Application.COMAddIns.Item("TxRunner.AddinModule")

If runSHUTTLEAddin Is Nothing Then
    MsgBox "Unable to initialize object of runSHUTTLE addin"
    Exit Sub
End If

' Get com object from addin object
Set AddinObject = runSHUTTLEAddin.Object.TsMacros
If runSHUTTLEAddin Is Nothing Then
    MsgBox "Unable to initialize com object of runSHUTTLE addin"
    Exit Sub
End If

' Set the Run type from the following
' RunNow = 0,
' RunOnErrors = 1,
' StepByStep_StopOnAllScreens = 2,
' StepByStep_StopOnErrors = 3
AddinObject.TypeofRun = 0

' Set the RunOnRows from the following
' AsInShuttleFile = 0,
' Selected = 1,
' Filtered = 2
AddinObject.RunOnRows = 0

' Select the published file to Run
AddinObject.PublishedShuttleFile = "TxR_Test3"

AddinObject.StartRow = 2

AddinObject.EndRow = 15

AddinObject.LogColumn = "E"

AddinObject.SheetName = "Sheet1"

AddinObject.AlfPath = "C:\Users\amitb\Documents\WinShuttle\TRANSACTION\Alf\WE6800.ALF"

' Call the Run Function to start uploading data

```

```
AddinObject.Run
```

```
Exit Sub
```

```
ErrorHandler:
```

```
MsgBox Err.Description
```

```
End Sub
```

Run an existing Transaction script

```
Sub RunSHUTTLEfile()
```

```
'
```

```
' RunSHUTTLEfile Macro
```

```
'
```

```
Dim runSHUTTLEAddin, AddinObject
```

```
On Error GoTo ErrorHandler
```

```
' GET ADDIN OBJECT FROM EXCEL
```

```
Set runSHUTTLEAddin = Application.COMAddIns.Item("TxRunner.AddinModule")
```

```
If runSHUTTLEAddin Is Nothing Then
```

```
MsgBox "Unable to initialize object of runSHUTTLE addin"
```

```
Exit Sub
```

```
End If
```

```
' Get com object from addin object
```

```
Set AddinObject = runSHUTTLEAddin.Object.TsMacros
```

```
If runSHUTTLEAddin Is Nothing Then
```

```
MsgBox "Unable to initialize com object of runSHUTTLE addin"
```

```
Exit Sub
```

```
End If
```

```
' Set the type of run from the following
```

```
' RunNow = 0,
```

```
' RunOnErrors = 1,
```

```
' StepByStep_StopOnAllScreens = 2,
```

```
' StepByStep_StopOnErrors = 3
```

```
AddinObject.TypeofRun = 0
```

```
' Set the Run On Rows from the following
```

```
' AsInShuttleFile = 0, // rows as in SHUTTLE file
```

```
' Selected = 1, // selected rows on active excel sheet
```

```

' Filtered = 2      // filtered rows on active excel sheet
AddinObject.RunOnRows = 0

Dim strShuttleFile As String

' open existing SHUTTLEfile to Run
strShuttleFile = "C:\Documents and Settings\harminders\My
Documents\WinShuttle\transactionSHUTTLE\SHUTTLEfiles\mm02_test1.txr"
AddinObject.OpenShuttleFile (strShuttleFile)

AddinObject.StartRow = 2

AddinObject.EndRow = 20

AddinObject.LogColumn = "E"

AddinObject.SheetName = "Sheet1"

AddinObject.AlfPath = "C:\Users\amitb\Documents\WinShuttle\TRANSACTION\Alf\WE6800.ALF"

' Call the Run Function to start uploading data
AddinObject.Run
Exit Sub

ErrorHandler:
MsgBox Err.Description
End Sub

```

Validate an existing script (can be extended to published scripts as well)

```

Sub ValidateSHUTTLEfile()
'
' RunSHUTTLEfile Macro
'
Dim runSHUTTLEAddin, AddinObject

On Error GoTo ErrorHandler
' GET ADDIN OBJECT FROM EXCEL
Set runSHUTTLEAddin = Application.COMAddIns.Item("TxRunner.AddinModule")

```

```

If runSHUTTLEAddin Is Nothing Then
    MsgBox "Unable to initialize object of runSHUTTLE addin"
    Exit Sub
End If

' Get com object from addin object
Set AddinObject = runSHUTTLEAddin.Object.TsMacros
If runSHUTTLEAddin Is Nothing Then
    MsgBox "Unable to initialize com object of runSHUTTLE addin"
    Exit Sub
End If

' Set the type of run from the following
' RunNow = 0,
' RunOnErrors = 1,
' StepByStep_StopOnAllScreens = 2,
' StepByStep_StopOnErrors = 3
AddinObject.TypeofRun = 0

' Set the Run On Rows from the following
' AsInShuttleFile = 0, // rows as in SHUTTLE file
' Selected = 1, // selected rows on active excel sheet
' Filtered = 2 // filtered rows on active excel sheet
AddinObject.RunOnRows = 0

Dim strShuttleFile As String

' open existing SHUTTLEfile to Run
strShuttleFile = "C:\Documents and Settings\harminders\My
Documents\WinShuttle\transactionSHUTTLE\SHUTTLEfiles\mm02_test1.txr"
AddinObject.OpenShuttleFile (strShuttleFile)

AddinObject.StartRow = 2

AddinObject.EndRow = 20

AddinObject.LogColumn = "E"

'Change Sheet where data can be written
AddinObject.SheetName = "Sheet3"

'Change ALF path as per requirement and accessibility of file.

```

```
AddinObject.AlfPath =  
"C:\USERS\SASINGH\DOCUMENTS\WINSHUTTLE\TRANSACTION\AL\WE6800_ANKUR.ALF"  
  
' Call the Validate Function  
AddinObject.Validate  
  
Exit Sub  
  
ErrorHandler:  
  MsgBox Err.Description  
End Sub
```

Known issues

- ExtractAllRecords fetches all records even if the number of records is greater than the maximum number of records allowed for download.
- Start Row is always picked as 2 if not defined.
- When you run a macro a second time, it blanks out any opened script in Query Addin (not published file).
- If the Query Addin is disabled or not registered, expected error message (defined in the macro) does not appear.

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