

Scripting How-To: Using Excel to Control Microwave Office

Summary

You can make your own examples to see this run, the code below is only a sample.

You will first have to enable scripts in Excel. To do this, open up Excel, select Tools > Macros > Security and set it to medium. Open up Excel, go to Tools > Macros > Visual Basic Editor and create a new code module

Code Snippets

```
Sub MW001()  
'note the name of the application to create the object came from  
'running the registry editor "regedit" and looking under "HKEY_CLASSES_ROOT"  
'for the "AWR.MWOffice" objects  
  
On Error GoTo Catch  
  
'uncomment the line for the proper version of AWR.  
Set MWOffice2 = CreateObject("AWR.MWOffice.8.0")  
  
MWOffice2.Open ("C:\Documents and Settings\ryan\My Documents\AWR\Scripts\batch\test1.emp")  
MWOffice2.Project.simulate  
MWOffice2.Project.Save  
'MWOffice2.Project.Close  
MWOffice2.Open ("C:\Documents and Settings\ryan\My Documents\AWR\Scripts\batch\test2.emp")  
MWOffice2.Project.simulate  
MWOffice2.Project.Save  
'MWOffice2.Project.Close  
MWOffice2.Open ("C:\Documents and Settings\ryan\My Documents\AWR\Scripts\batch\test3.emp")  
MWOffice2.Project.simulate  
MWOffice2.Project.Save  
'MWOffice2.Project.Close  
MWOffice2.Open ("C:\Documents and Settings\ryan\My Documents\AWR\Scripts\batch\test4.emp")  
MWOffice2.Project.simulate  
MWOffice2.Project.Save  
'MWOffice2.Project.Close  
MWOffice2.Open ("C:\Documents and Settings\ryan\My Documents\AWR\Scripts\batch\test5.emp")  
MWOffice2.Project.simulate  
MWOffice2.Project.Save  
MWOffice2.Project.Save  
MWOffice2.Project.Close  
  
Catch:  
'MsgBox Err.Number & vbCrLf & Err.Description  
If Err.Number = 851 Then 'if not dirty will skip save command  
Resume Next  
Else  
'MsgBox Err.Number & vbCrLf & Err.Description  
End If  
  
End Sub
```

Powershell as batch controller

A powershell batch file to load a project, simulate it and save it would look like:

```
$mwo = new-object -comobject "AWR.MWOffice"  
sleep(5)  
$mwo.Open($input_file)  
$mwo.Project.Simulate()  
$mwo.Project.SaveAs($output_file)  
$mwo.Project.Close()  
$mwo.Quit()
```

Assuming the variables \$input_file and \$output_file have been previously defined.

Note the code here is very similar to the excel code above, just run in a different engine.