# **USER REBOOT NOTIFICATION**

**EXCEL VBA CODE** 

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### Sub RebootNotif ()

#### 'ORIGINAL CODE BY MARISSA J BRAND

'The purpose of this VBA script is to take information our company receives regarding user workstation status, find which users require a reboot on their workstation, and alert them that an update/installment is needed via Outlook email.

#### ' Declare Variables

Dim wsCombined As Worksheet

Dim combinedWs As Worksheet

Dim lastRow As Long

Dim existingWsName As String

Dim firstDataRow As Long

Dim rng As Range

Dim tbl As ListObject

Dim i As Long

Dim WkStnName As String

Dim matchedUser As String

Dim savePath As String

Dim ws As Worksheet

Dim attachmentAdded As Boolean

Dim existingWorkbook As Workbook

Dim OutlookApp As Object

Dim OutlookMailItem As Object

Dim recipientEmail As String

'Name the existing worksheet where data will be combined as "Combined Data" existingWsName = "Combined Data"

'Check if the existing worksheet exists in the workbook

On Error Resume Next

Set combinedWs = ThisWorkbook.Worksheets(existingWsName)

On Error GoTo o

' If worksheet doesn't exist, create it

If combinedWs Is Nothing Then

Set combinedWs = ThisWorkbook.Worksheets.Add

combinedWs.Name = existingWsName

End If

'Start pasting data from cell A1

lastRow = 1

'This next section of code runs through the workbook and combines the worksheets with the same format to be in "Combined Data", and copies it all over neatly into one sheet

For Each wsCombined In ThisWorkbook.Worksheets

If wsCombined.Name <> existingWsName Then 'Skip the existing combined worksheet itself

'Copy data from current worksheet to the combined worksheet

wsCombined.UsedRange.Copy

combinedWs.Cells(lastRow, 1).PasteSpecial Paste:=xlPasteValues

Application.CutCopyMode = False

' Move to the next available row in the combined worksheet

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' Delete the current worksheet
      Application. DisplayAlerts = False 'Hide the delete confirmation dialog
      wsCombined.Delete
      Application.DisplayAlerts = True
    End If
  Next wsCombined
'Autofit the columns in the combined worksheet
  combinedWs.Columns.AutoFit
' Find the first row with data in the combined worksheet
  On Error Resume Next
  firstDataRow = combinedWs.Cells.Find(What:="*", _
               SearchOrder:=xlByRows,_
               SearchDirection:=xlNext).Row
  On Error GoTo o
' Delete any blank rows above the first line of data
  If firstDataRow > 1 Then
    combinedWs.Rows("1:" & firstDataRow - 1).Delete
  End If
'Delete duplicate rows based on all columns in the combined worksheet, but keep the first occurrence of duplicates
  If combinedWs.Cells(1, 1).CurrentRegion.Rows.Count > 1 Then
    Dim lastCol As Long
    lastCol = combinedWs.Cells(1, combinedWs.Columns.Count).End(xlToLeft).Column
    combinedWs.Range("A2", combinedWs.Cells(combinedWs.Rows.Count, lastCol).End(xlUp)).RemoveDuplicates
Columns:=Array(1, 2, 3, 4, 5, 6), Header:=xlYes
  End If
' Delete rows where "Installed" is found in column [THE LETTER OF THE COLUMN THE REBOOT STATUS OF
WORKSTATIONS IS CURRENTLY DISPLAYED + 1 COLUMN TO THE RIGHT].
'The column it is currently displayed in will not be the same when the code finishes running due to the next section.
  lastRow = combinedWs.Cells(combinedWs.Rows.Count, "E").End(xlUp).Row
  For i = lastRow To 2 Step -1 ' Start from the last row and move up
    If combinedWs.Cells(i, "E").Value = "Installed" Or combinedWs.Cells(i, "A").Value = "Computer Name" Then
      combinedWs.Rows(i).Delete
    End If
  Next i
'Insert a column to the right of Column A with the header "Last Known User"
  combinedWs.Columns("B:B").Insert Shift:=xlToRight
  combinedWs.Cells(1, 2).Value = "Last Known User"
'Autofit the "Last Known User" column
  combinedWs.Columns("B").AutoFit
' Define the range of the table
  Set rng = combinedWs.Range("A1").CurrentRegion
'Create a table (ListObject) from the range
  Set tbl = combinedWs.ListObjects.Add(xlSrcRange, rng, , xlYes)
  tbl.Name = "Table1"
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tbl.TableStyle = "TableStyleLight13"
  tbl.AutoFilter.ShowAllData
' Find the last row with data in Column A
  lastRow = combinedWs.Cells(combinedWs.Rows.Count, "A").End(xlUp).Row
'Loop through each cell in Column A, start from 2 to skip header row
  For i = 2 To lastRow
'Get the value in Column A (workstation name)
    WkStnName = combinedWs.Cells(i, 1).Value
' Match workstation name to user - add as many workstations and last known users as you require using Select Case
    Select Case WkStnName
Case "[WORKSTATION NAME]"
       matchedUser = "[LAST KNOWN WORKSTATION USER'S MAILBOX/USERNAME]"
Case "[WORKSTATION NAME]"
       matchedUser = "[LAST KNOWN WORKSTATION USER'S MAILBOX/USERNAME]"
Case "[WORKSTATION NAME]"
       matchedUser = "[LAST KNOWN WORKSTATION USER'S MAILBOX/USERNAME]"
Case "[WORKSTATION NAME]"
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Case "[WORKSTATION NAME]"
       matchedUser = "[LAST KNOWN WORKSTATION USER'S MAILBOX/USERNAME]"
      Case Else
       matchedUser = "Undetermined"
' If a user cannot be found while the code is running, the text string will read as "Undetermined" in the table
    End Select
'Inserts the matched workstation user into Column B
    combinedWs.Cells(i, 2).Value = matchedUser
  Next i
' Delete rows where "Undetermined" is found in column B.
' IMPORTANT TO NOTE: workstations that are not found to have a known user will not receive an email as they will be
deleted from the table when the code runs to send an email based on the list of usernames generated.
  lastRow = combinedWs.Cells(combinedWs.Rows.Count, "B").End(xlUp).Row
  For i = lastRow To 2 Step -1 'Start from the last row and move upwards
    If combinedWs.Cells(i, "B").Value = "Installed" Or combinedWs.Cells(i, "B").Value = "Undetermined" Then
      combinedWs.Rows(i).Delete
    End If
  Next i
'Set the active worksheet
  Set ws = ActiveSheet
'Specify the save path for the PDF
  savePath = "[INSERT SAVE PATH]"
'Set worksheet orientation to landscape
  ws.PageSetup.Orientation = xlLandscape
'Set worksheet to fit to 1 page wide and 1 page tall
  ws.PageSetup.FitToPagesWide = 1
  ws.PageSetup.FitToPagesTall = 1
VBA Code written by MARISSA J BRAND, 2024
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```
'Export the active sheet as PDF
  ws.ExportAsFixedFormat Type:=xlTypePDF, Filename:=savePath, Quality:=xlQualityStandard
' Set the active worksheet
  Set ws = ActiveSheet
'Save path for the PDF
  savePath = "[INSERT SAVE PATH]"
'Set worksheet orientation to landscape
  ws.PageSetup.Orientation = xlLandscape
'Set worksheet to fit to 1 page wide and 1 page tall
  ws.PageSetup.FitToPagesWide = 1
  ws.PageSetup.FitToPagesTall = 1
'Export the active sheet as PDF
  ws.ExportAsFixedFormat Type:=xlTypePDF, Filename:=savePath, Quality:=xlQualityStandard
'Notify user upon successful export
  MsgBox "PDF file saved to [SAVED LOCATION]", vbInformation
'Send email to each recipient in Column B (BCC), find last row with data in Column B
  lastRow = ws.Cells(ws.Rows.Count, "B").End(xlUp).Row
'Create Outlook application object
  Set OutlookApp = CreateObject("Outlook.Application")
'Create new email
  Set OutlookMailItem = OutlookApp.CreateItem(o)
'Construct BCC recipients
  For i = 2 To lastRow 'Assuming data starts from row 2 and row 1 is header
    recipientEmail = ws.Cells(i, "B").Value & "@[EMAIL DOMAIN e.g. GMAIL].com"
'Add each recipient to BCC field
    If Len(OutlookMailItem.BCC) > o Then
      OutlookMailItem.BCC = OutlookMailItem.BCC & "; " & recipientEmail
      OutlookMailItem.BCC = recipientEmail
    End If
  Next i
'Compose the email
  With OutlookMailItem
       .Subject = "Workstation Reboot Needed"
       .Body = "If you have received this email, it is necessary that you reboot your computer as soon as possible. Thank
       you!"
' Display the email for review before sending
    .Display
    '.Send ' without this line of code, the email would send automatically
  End With
```

' Clean up after the code has performed its primary task Set OutlookMailItem = Nothing Set OutlookApp = Nothing

' Notify user that emails have been sent MsgBox "Process Complete.", vbInformation

## **End Sub**