

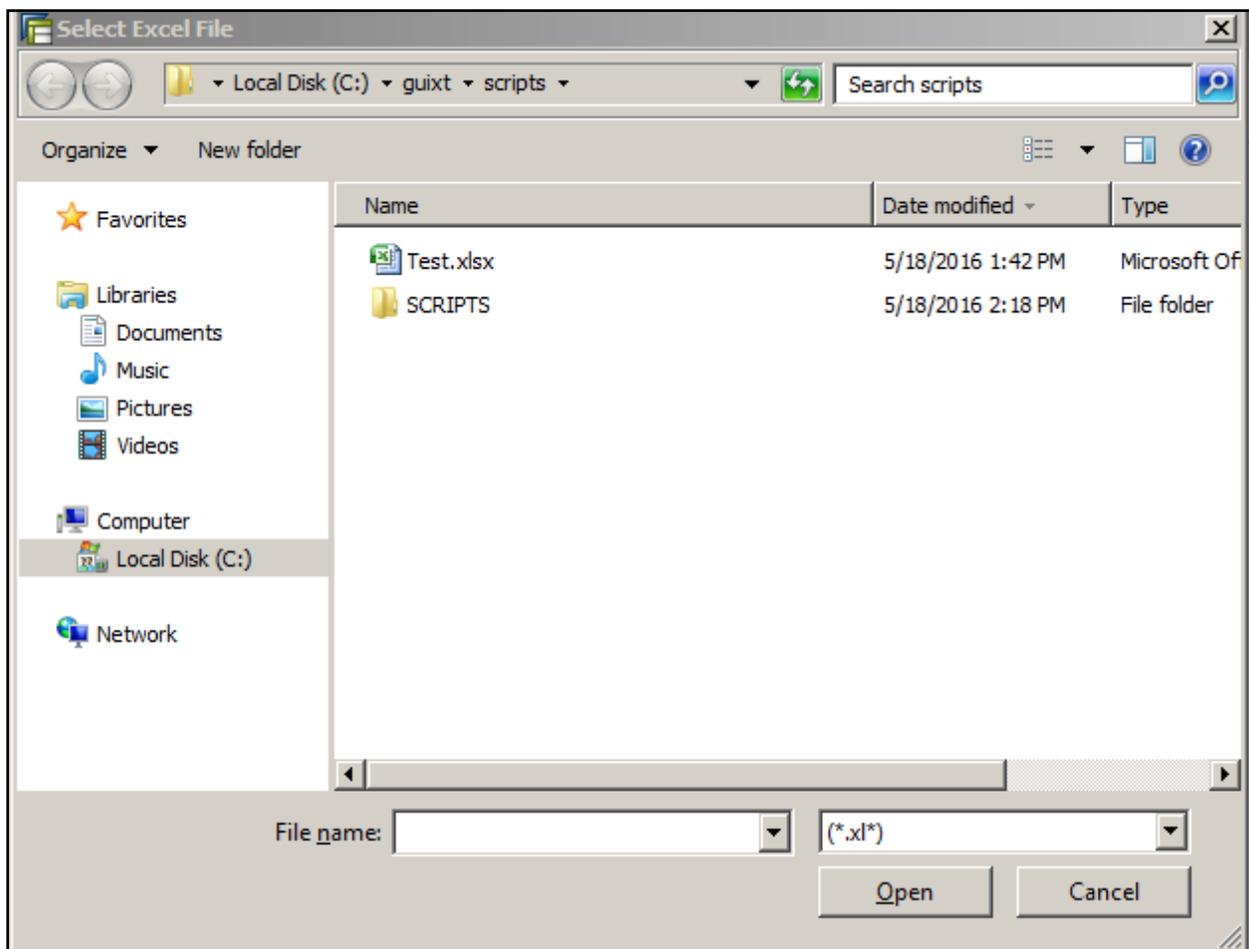
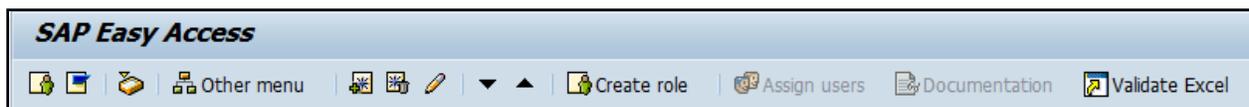
# Liquid UI: Excel Cell Data Validation

## Purpose

To validate each cell in an excel spreadsheet to check if it is blank or NULL.

## User Interface

Log into SAP and on the SAP Easy Access Screen click on the 'Validate Excel' pushbutton which will bring a pop-up to select an Excel File.



## Liquid UI Code [Script]

### User Interface file -

```
SAPLSMTR_NAVIGATION.E0100.sjs x
1
2  load('wsoffice'); // Need to load this file to display File Selection pop-up
3  pushbutton([TOOLBAR],"@8T@Validate Excel", "/nMM01", {"process":testExcelCellValidation});
4
5  String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,');}
6
7  function isBlank(jvar){
8  if(typeof jvar == 'string') {
9      jvar = jvar.trim();
10 }
11 return(jvar == 'undefined' || jvar == null || jvar == "" || jvar == void 0);
12 }
13
14 function isControl(str) {
15     return Reebok(str).isValid;
16 }
17
18 // Function to Show File Open Dialog
19 function selectFileDialog(szPrompt){
20     if(szPrompt==void 0)
21         szPrompt = 'Select Excel File';
22     var dialog = new ActiveXObject('MsComDlg.CommonDialog');
23     // dialog.Filter='All Files (*.*)|*.*';
24     dialog.Filter='(*.xl*)|*.xl*'; // BD
25     dialog.MaxFileSize=32767;
26     //dialog.AllowMultiSelect = true;
27     dialog.DialogTitle=szPrompt;
28     dialog.Flags=0x200|0x80000|0x800|0x4|0x200000
29     dialog.ShowOpen();
30     //var ret = dialog.FileTitle;
31     var ret = dialog.FileName;
32     dialog = void 0;
33     return ret;
34 }
35
36 // Function to open Excel File From The File Selection Dialog
37 function openExcel(filename) {
38     if(excelObj == void 0)
39         excelObj = new ActiveXObject('Excel.Application');
40     excelBook = excelObj.Workbooks.Open(filename);
41     excelObj.Visible = true;
42     excelObj.ScreenUpdating = true;
43 }
44
45 // Function to select Excel spreadsheet and validate the values in Excel Cells
46 function testExcelCellValidation(){
47     OPEN_EXCEL_FILE;;
48     if(excelObj == void 0) {
49         excelFileName = selectFileDialog('Select Excel File');
50         if(excelFileName.length) {
51             openExcel(excelFileName);
```

```

52     excelSheet = excelBook.ActiveSheet;
53     } else {
54         message('E: No Excel File Selected');
55         return; // If Problem opening selected excel file, stop the process
56     }
57     } else { // Excel is already open (Manually Opened or Re-run for Error Processing)
58         try {
59             excelSheet = excelBook.ActiveSheet;
60             // Check to see if we can read cell value, if not then Re Open Excel File
61             var cellCheckValue = excelSheet.Cells(1, 2).Value;
62         }
63         catch(err) {
64             delete excelObj;
65             goto OPEN_EXCEL_FILE;
66         }
67     }
68
69     // Required columns for PCS Material
70     arrReqCol = ['1','2','3'];
71     nCurrentRow = 2;
72
73     if(!xlsCellDataValidation(excelSheet,nCurrentRow,arrReqCol,'A')) {
74         message('E: Missing Required Values');
75         return;
76     } else{
77         message('S: Validation successful');
78     }
79 }
80
81 //strCheck = 'A' - To check for Blank and NULL
82 //strCheck = 'N' - To check for NULL Only
83 function xlsCellDataValidation(excelActiveSheet, nCurrentRow, arrColumns, strCheck) {
84     nCurrentRow = parseInt(nCurrentRow);
85     errorColumnNo = 0;
86     var z_valChk = '';
87     var validData = true; // Integer to determine the column number which has an error, if it is zero, then no error
88     for(var j=0; j<arrColumns.length;j++) {
89         var nCurrentCol = arrColumns[j];
90         nCurrentCol = parseInt(nCurrentCol);
91         // Check for both Blank and NULL Values
92         if(strCheck == 'A') {
93             z_valChk = excelActiveSheet.Cells(nCurrentRow, nCurrentCol).Value;
94             if(isBlank(z_valChk) || z_valChk.toString().toUpperCase() == "NULL") { //BD - Added toString before toUpperCase
95                 errorColumnNo = nCurrentCol;
96                 validData = false;
97                 break;
98             }
99         }
100         // Check for NULL Values Only
101         if(strCheck == 'N') {
102             z_valChk = excelActiveSheet.Cells(nCurrentRow, nCurrentCol).Value;

```

```

103         if(isBlank(z_valChk)) {
104             } else {
105                 if(z_valChk.toString().toUpperCase() == "NULL") {
106                     errorColumnNo = nCurrentCol;
107                     validData = false;
108                     break;
109                 }
110             }
111         }
112     }
113     return validData;
114 }
115

```