

Here's the situation

You have an excel sheet (for some reason) that list out line # and attributes that correspond to that line. For example

MEDIA	SPEC	SERVICE	DESIGN_PR	DESIGN_TEMP	TEST_PR	TEST_MDM	RAD
100	AB	COOLING WATER	1030	100	LEAK TEST	COMMODITY	0
200	AB	HOT WATER	1030	100	LEAK TEST	COMMODITY	0
300	AB	UTILITY AIR	1030	100	LEAK TEST	COMMODITY	0
400	AB	PROCESS WATER	1030	100	LEAK TEST	COMMODITY	0
1001	AB	FIRE WATER	1200	100	1800	WATER	0
1211	AC	POTABLE WATER	1030	60	LEAK TEST	COMMODITY	0
1002	AC	INSTRUMENT AIR	1030	60	LEAK TEST	COMMODITY	0
3000	AC	NITROGEN	1030	60	LEAK TEST	COMMODITY	0
550	AC	TREATED WATER	1030	60	LEAK TEST	COMMODITY	0
434	AD	FLARE	800	150	1200	WATER	10
123	AD	FUEL OIL	800	150	1200	WATER	10
321	AD	DEG HOT	800	150	1200	WATER	10
222	AD	PROCESS DRAIN	800	150	1200	WATER	10
333	AS	CHEMICALS	800	80	1200	WATER	10
512	AS	LUBE OIL	800	80	1200	WATER	10
5555	BD	FUEL GAS	3600	100	5400	WATER	10
453	CA	PROCESS LIQUIDS	9360	60	14100	WATER	10
9009	CB	PROCESS GAS COLD	9360	77	11600	WATER	100
555	CD	PROCESS LIQUIDS	9400	60	14100	WATER	10

Now, you want to have this information come across in ISOGEN title block -- as was done in the "ADDING TEXT TO THE TITLE BLOCK" section in the Isogen Manual. Recall, in the first section of the PCF file, we added items called ATTRIBUTE1, ATTRIBUTE2, ATTRIBUTE3, etc. And then positioned this text with a Position Text (POS) file.

So we need to automate the writing to the PCF file so that the attribute values are read from our excel file. This is done in the OPCFHDR.EBS file.

Open up OPCFHD>EBS and search for ATTRIBUTE99. Above attribute 99 line, modify the code to read

```
If (nSysIso = 0) Then
  nStat = PCF_PIPING_SPEC(0)
  nStat = PCF_WRITEFROM_XLS()
  nStat = at_XchgWritelnText(" ATTRIBUTE99 END")
End If
```

#### **Public Function PCF\_WRITEFROM\_XLS () As Integer**

```
Dim nStat As Integer
Dim compID As At_ComponentID
Dim fieldvalues(24) As String
Dim i As Integer
Dim excelfilename as string
Dim linenummer As String
```

```
Excelfilename = "C:\WORKING\ISOGEN\ISOGENIMP.XLS"
```

```
nStat = at_Component_getCurrID(compID)
```

```
nStat = at_component_getString(fieldvalues(1), compID, "LINENUMBER")  
linenumber = fieldvalues(1)
```

```
Call ReadExcel(excelfilename, linenumber, fieldvalues)
```

```
For i = 0 To 10  
    If (nstat = at_success) And (fieldvalues(i) <> "") Then  
nStat = at_XchgWritelnText ("  ATTRIBUTE "+ cstr(i) + " " + fieldvalues(i))  
    End If  
Next i
```

```
Pcf_writefrom_xls = nStat
```

**End Function**

The above function calls a routine ReadEXCEL, which is shown below.

**Sub ReadExcel(filename As String, linenumber As String, fieldvalues() As String)**

```
Dim ExApp As Object
```

```
Dim wkb1 As Object
```

```
Dim sheet1 As Object
```

```
Dim row1 As Object
```

```
Dim media As String
```

```
Dim i As Integer
```

```
Dim done As Integer
```

```
    excelfile = dir(filename)
```

```
If excelfile <> "" Then
```

```
    Set ExApp = CreateObject("Excel.Application")
```

```
    Set wkb1 = ExApp.Workbooks.Open(filename)
```

```
    wkb1.Activate
```

```
    Set sheet1 = wkb1.Sheets(1)
```

```
i = 0
```

```
    Do
```

```
        i = i + 1
```

```
        Set row1 = sheet1.Rows(i)
```

```
        If row1.Cells(1) = linenumber Then 'if the first cell equals linenumber, do the rest
```

```
            done = 1
```

```
            fieldvalues(1) = linenumber
```

```
            fieldvalues(2) = row1.Cells(2) 'service
```

```
            fieldvalues(3) = row1.Cells(3) 'dpress , COLUMN 3,
```

```
            fieldvalues(4) = row1.Cells(4) 'dtemp
```

```
            fieldvalues(5) = row1.Cells(5) 'tpress
```

```
            fieldvalues(6) = row1.Cells(6) 'tmedium
```

```
            fieldvalues(7) = row1.Cells(7) 'radio
```

```
            fieldvalues(8) = row1.Cells(8) 'heat
```

```
            fieldvalues(9) = row1.Cells(9) 'insu
```

```
            fieldvalues(10) = row1.Cells(10) 'paint
```

```
        End If
```

```
If i > 2000 Then                                'bail incase there is never a match
    done = 1
    msgbox "ERROR:. Line number not found in first 2000 lines of " & Excelfilename
End If

    Loop Until done > 0.01

ExApp.Quit

Else
    msgbox "ERROR: Can not find " + filename
End If

End Sub
```