

PartsSheet.vbs

```
' Bill of Material (on Sheet)
'
' Changes:
' 17.02.2000 CIM-Team Initial Version
' 31.05.2000 CIM-Team New version
' 10.08.2002 CIM-Team Multi language
' 10.08.2002 CIM-Team Add additional parts and fitting parts to the
list
' 17.04.2003 CIM-Team Add PartNumber functionality
' 30.06.2003 CIM-Team Changes for version 2003, new calculation for
terminals
' 18.02.2004 CIM-Team Handling of Articlenumber for Components /
Additional parts / Fitting parts
' Device: 1. Component - ArticleNumber
' 2. if empty: Entry - Name
' 3. if empty: Device - PartNumber
' AdditionalPart: 1. Component - ArticleNumber
' 2. if empty: Entry - Name
' FittingPart: 1. Component - ArticleNumber
' 2. if empty: Entry - Name
' 15.04.2004 CIM-Team Changes for ORACLE
' 18.08.2004 CIM-Team Added control of internal/external execution
' 13.03.2005 CIM-Team Added additional device attributes for dynamic
devices
' 04.04.2005 CIM-Team Added portuguese strings
' 27.04.2005 CIM-Team [1r] Step-1182: Anschlagteile von Klemmleisten
/nicht/ verarbeiten. Sie kommen sonst doppelt...
' 28.07.2005 CIM-Team added strings for chinese and russian
' 30.10.2005 CIM-Team [2b] Step-1810: Number of elements enhanced to 20000
' 30.10.2005 CIM-Team [3b] Step-1810: Count fitting parts only, if pin is
placed
' 30.10.2005 CIM-Team [4b] Step-1469: Ignore parts of assemblies from the
database
' 30.10.2005 CIM-Team [5b] Step-1755: Additional parts on project level
' 31.10.2005 CIM-Team [6b] Step-1755: Additional parts including number of
parts in the string
' 07.07.2006 CIM-Team [7b] Scout-1001: Bug when analyzinh additional parts
' 13.11.2006 CIM-Team [8b] Scout-1001: Changing of Messages Routine
' 15.01.2007 CIM-Team [9rk] Scout-0990: Lange Betriebsmittel werden über den
Rand geschrieben
' 23.01.2007 CIM-Team [10rk] Scout-1925: Schriftbreite bei den Textausgaben
auf 'eng' setzen
' 12.03.2007 CIM-Team Added japanese version
' 10.10.2007 CIM-Team [rk] star-00017: rewritten to use new methods
' 20.11.2007 CIM-Team[1rk] star-00017: Description of sheet
' 17.01.2008 CIM-Team [rk] sun-00223: for use in viewplus
'
' - EOH -
'
' ...
```

Option Explicit

```
' Global constants
'
'-----
'-----
```

```
Const SHEET_FORMAT = "DESYSTCKA3"
Const SHEET_SYMBOL = "SYM-BillofMaterial"
Const COLUMNS_PER_PAGE = 6
Const LINES_PER_COLUMN = 26
Const FREE_SYMBOL_TEXT = 1006
Const ATT_DESCRIPTION_1 = "SheetName1"
Const ATT_DESCRIPTION_2 = "SheetName2"
```

' [1rk]

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```
'
-----
' Global variables ( for customization )
-----

Dim DevNamesLen: DevNamesLen = 55
' width of column for Devices
Dim CompNamesLen: CompNamesLen = 30
' width of column for Componentname
Dim DescNamesLen: DescNamesLen = 40
' width of column for Description

'
-----
' Global variables internal
-----

Dim sheetNumber: sheetNumber = 0
Dim ContentsId: ContentsId = 0
Dim FirstShtId: FirstShtId = 0
Dim sheetName: sheetName = ""
Dim sheetDesc: sheetDesc = ""

' needed if format used -----
Dim y: y = 0
Dim y_min: y_min = 24
Dim y_max: y_max = 226
Dim y_space: y_space = 8
Dim sheetFormat: sheetFormat = "A3-BillofMaterial"
Dim units, x_position, x_quantity, x_compcode, x_description,
x_supplier, x_devnames
Dim text_height, x_ass, y_ass, x_loc, y_loc, text_height_ass_loc

'
-----
' Output sheet is only sorted by Components
' Start sheet
Sub OutputSheet

    Debug "OutputSheet started "

    Select case language
        Case "01"
            sheetName = "BOM_"
            sheetDesc = "Bill of Material"
        Case "44"
            sheetName = "BOM_"
            sheetDesc = "Bill of Material"
        Case "49"
            sheetName = "Stk_"
            sheetDesc = "Stückliste"
        Case "33"
            sheetName = "BOM_"
            sheetDesc = "Liste des pièces"
        Case "34"
            sheetName = "BOM_"
            sheetDesc = "Lista de Materiales"
        Case "39"
            sheetName = "BOM_"
    
```

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    sheetDesc = "Lista materialii"
Case "55"
    sheetName = "LdM_"
    sheetDesc = "Lista de Materiais"
Case "07"
    sheetName = "BOM_"
    sheetDesc = "Спецификация"
Case "86"
    sheetName = "BOM_"
    sheetDesc = "□□□"
Case "90"
    sheetName = "BOM_"
    sheetDesc = "Bill of Material"
Case "81"
    sheetName = "BOM_"
    sheetDesc = "□□□"
Case Else
    sheetName = "BOM_"
    sheetDesc = "Bill of Material"
End Select

' needed if format used -----
units = "MM"
x_position = 26
x_quantity = 44
x_compcode = 68
x_description = 140
x_supplier = 230
x_devnames = 268
text_height = 4
x_ass = 102
y_ass = 258
x_loc = 242
y_loc = 258
text_height_ass_loc = 6

Dim SaveMeasure: SaveMeasure = prj.GetMeasure
Dim SaveTextMode: SaveTextMode = prj.GetGraphTextMode
Dim SaveTextHeight: SaveTextHeight = prj.GetGraphTextHeight
prj.SetMeasure units
prj.SetGraphTextMode 2 ' set to 2 ==
NARROW prj.SetGraphTextHeight text_height
y = 0
' -----

DeleteSheets sheetName ' first delete
all sheets

' output all relevant components
Dim tplst: set tplst = p.Components

WriteListElements tplst ' comment this
line if Format used

' uncomment this line if Format used 'WriteListElementsFormat tplst

Sheet.SetId FirstShtId
Sheet.Display '
display first sheet

prj.SetMeasure SaveMeasure
prj.SetGraphTextMode SaveTextMode
prj.SetGraphTextHeight SaveTextHeight

End Sub

```

```

Function WriteListElements (mylist)

    Dim e, le, list
    Dim nComp, line, cnt, sht, sym

    ' output all relevant components
    Set mylist = SortList( mylist, "sortval" )
' Sort componentname
    Set list = CreatePartListElements (mylist, 1, "", "" )

    nComp = 1

    ' loop for all Listelements
    For Each e In list
' output list...
        Set le = list(e)

        If( line = 0 ) Then
            Call NewPage
            ' create new sheet
            Set sht = GetSheet( ContentsId )
            ' CSheet-object
            Set sym = sht.PlaceSymbol( SHEET_SYMBOL, 0, 0 )
' CSymbol-object
        End If

        cnt = line * COLUMNS_PER_PAGE
        sym.SetTextByType FREE_SYMBOL_TEXT, cnt+1, Cstr(nComp)
        sym.SetTextByType FREE_SYMBOL_TEXT, cnt+2, le.count
        sym.SetTextByType FREE_SYMBOL_TEXT, cnt+3, Left(le.name,
CompNamesLen)
        sym.SetTextByType FREE_SYMBOL_TEXT, cnt+4, Left(le.desc,
DescNamesLen)
        sym.SetTextByType FREE_SYMBOL_TEXT, cnt+5, le.suppl

        WriteDevices le, sht, sym, cnt, line
' write Devices and line(s)

        nComp = nComp + 1
        line = line + 1
        If( line = LINES_PER_COLUMN ) Then
            line = 0
        End If
    Next 'list (Listelement)

    WriteListElements = true

End Function

Sub WriteDevices ( le, sht, sym, cnt, ByRef line )

    ' split Devices
    Dim arr, str, str1, str2
    Dim endLoop2: endLoop2 = False
    Dim i1, i2
    str = le.devices
    If Len(str) > DevNamesLen Then
        arr = Split(str,",")
        str1 = ""
        str2 = ""
        ' loop1 complete string
        For i1 = 0 To UBound(arr)
            ' loop2 splitted strings
            For i2 = i1 To UBound(arr)
                str2 = str1
                str1 = str1 & LTrim(arr(i2)) & ", "
            Next i2
        Next i1
        If Len(str1) > DevNamesLen Then
            line = line + 1
            str1 = LTrim(str1)
            str2 = str1
            str1 = ""
        End If
    End If

```

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cnt+6, str2
' Devices
    sym.SetTextByType FREE_SYMBOL_TEXT,
        line = line + 1
        cnt = line * COLUMNS_PER_PAGE
        If( line = LINES_PER_COLUMN ) Then
            line = 0
            Call NewPage
            ' create new sheet
            Set sht = GetSheet( ContentsId )
' CSheet-object
            Set sym = sht.PlaceSymbol(
SHEET_SYMBOL, 0, 0 )
' CSymbol-object
            End If
                endLoop2 = True
                Exit For
' exit loop2
            End If
            i1 = i2
' counter loop1
= loop2
        Next
' end loop2
        If endLoop2 = True Then
            ' some more splitted strings
            str1 = ""
            str2 = ""
            endLoop2 = False
        Else
            ' last string
            str = str1
            str = Mid(str,1,Len(str)-2)
' clear last comma
        End If
        Next
' end loop1
    End If
    sym.SetTextByType FREE_SYMBOL_TEXT, cnt+6, str
Devices
End Sub
'
-----
Sub NewPage
    sheetNumber = sheetNumber + 1
    Sheet.Create 0, sheetName & sheetNumber, SHEET_FORMAT, ContentsId, 0
' create new sheet
    Sheet.SetAttributeValue ATT_DESCRIPTION_1, sheetDesc
    Sheet.SetAttributeValue ATT_DESCRIPTION_2, ""
    ' [1rk]
    ContentsId = Sheet.GetId
    If ContentsId <> 0 And FirstShtId = 0 Then FirstShtId = ContentsId
' display first sheet
    If ContentsId = 0 Then
        message "Error_BOM_Sheet", 1
        DisconnectFromE3
        wscript.Quit
    End If
End Sub
'
-----
'
-----
' only format
Sub WriteDevicesFormat ( le )

```

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```

' split Devices
Dim arr, str, str1, str2
Dim endLoop2: endLoop2 = False
Dim i1, i2
str = le.devices
If Len(str) > DevNamesLen Then
    arr = Split(str,",")
    str1 = ""
    str2 = ""
    ' loop1 complete string
    For i1 = 0 To UBound(arr)
        ' loop2 splitted strings
        For i2 = i1 To UBound(arr)
            str2 = str1
            str1 = str1 & LTrim(arr(i2)) & ", "

            If Len(str1) > DevNamesLen Then
                Graph.CreateText ContentsId, str2,
x_devnames, y ' Devices
                y = y - y_space
                If y < y_min Then Call NewPageFormat
                ' create new sheet
                endLoop2 = True
                Exit For ' exit loop2
            End If
            i1 = i2 ' counter loop1
        Next ' end loop2
    Next
    If endLoop2 = True Then
        ' some more splitted strings
        str1 = ""
        str2 = ""
        endLoop2 = False
    Else
        ' last string
        str = str1
        str = Mid(str,1,Len(str)-2)
        ' clear last comma
        End If
    Next ' end loop1
End If
Graph.CreateText ContentsId, str, x_devnames, y
' Devices
End Sub

```

Function WriteListElementsFormat (mylist)

```

    Dim e, le, list
    Dim nComp

    ' output all relevant components
    Set mylist = SortList( mylist, "sortval" )
' Sort componentname
    Set list = CreatePartListElements (mylist, 1, "", "" )

    nComp = 0
    ' loop for all Listelements
    For Each e In list
' output list...
        Set le = list(e)

        y = y - y_space
        If y < y_min Then Call NewPageFormat
        ' create new sheet

        nComp = nComp + 1
    Next

```

```

                PartsSheet.vbs
                Graph.CreateText ContentsId, Cstr(nComp), x_position, y
                Graph.CreateText ContentsId, le.count, x_quantity, y
                If le.desc <> "" Then
                    Graph.CreateText ContentsId, Left(le.desc,
DescNamesLen), x_description, y
                End If
                If le.sup <> "" Then Graph.CreateText ContentsId, le.sup,
x_supplier, y
                Graph.CreateText ContentsId, Left(le.name, CompNamesLen),
x_compcode, y

                WriteDevicesFormat le
                ' write Devices and line(s)
            Next          'list (Listelement)

            WriteListElementsFormat = true
End Function

Sub NewPageFormat
    y = y_max
    sheetNumber = sheetNumber + 1
    Sheet.Create 0, sheetName & sheetNumber, sheetFormat, ContentsId, 0
' create new sheet
    ContentsId = Sheet.GetId
    If ContentsId <> 0 And FirstShtId = 0 Then FirstShtId = ContentsId
' display first sheet
    If ContentsId = 0 Then
        message "Error_BOM_Sheet", 1
        DisconnectFromE3
        wscript.Quit
    End If
End Sub
End Sub
'
-----
-----

```