The 10 Most Frequently Asked Questions of Exporting to Excel®

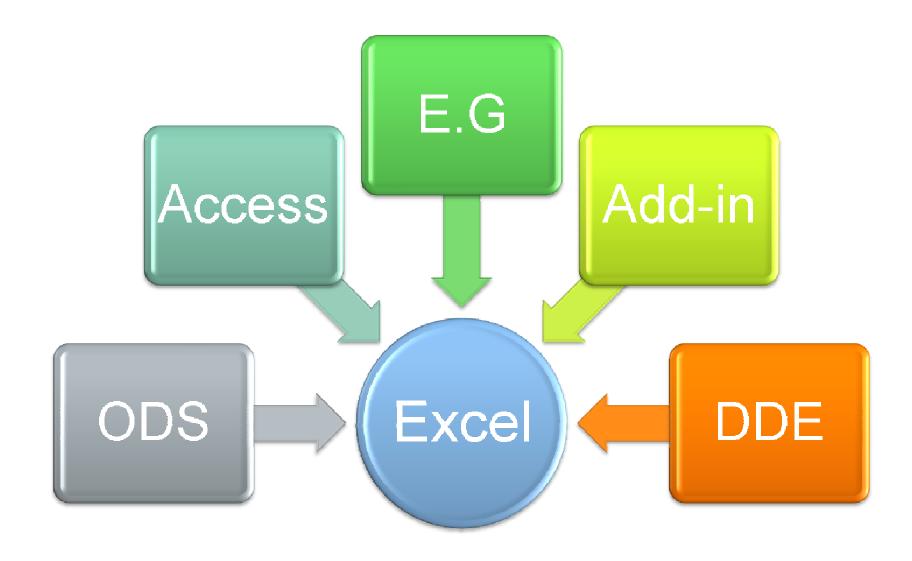
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Overview

- Methods used to Export to Excel
- Highlights of Exporting Features
- Top 10 FAQ's

Exporting to Excel



Which Method Should I Use?

- Output Delivery System
 - ExcelXP
 - MSOffice2K
 - CSV
 - Other Custom Tagsets
 - » Tagsets.MSoffice2K_x
 - » Tagsets.TableEditor
- Dynamic Data Exchange
 - Very Flexible
- Proc Export
 - Read/Write Excel file



10. Can I Execute a Visual Basic Macro?

- DDE can be used to execute a Visual Basic macro
- The MSOffice2K_X and the TableEditor tagsets can be used with options
- The Add-in can also be used

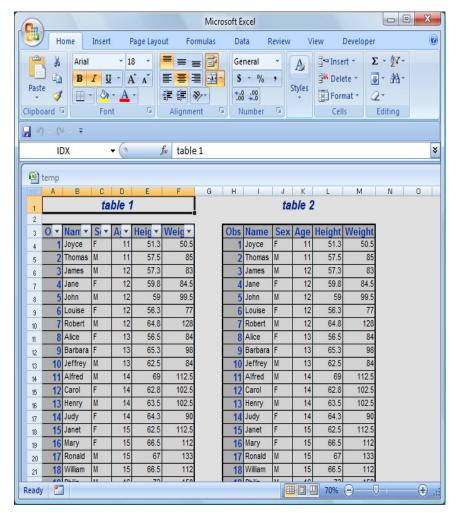
```
filename maccmds dde 'excel|system';
data _null_;
file maccmds;
put '[run("timeperiod")]';
run;
```

9. Can I Panel Output on a Worksheet?

- The HTMLPanel tagset can be used to panel output
- The MSOffice2K_X tagset can be used to Panel output while maintaining style
- DDE can be used to place a table or graph at a specific location on the worksheet

Can I Panel output on a Worksheet (Continued)?

```
ods tagsets.msoffice2k_x file="temp.xls"
options(panelcols="2"
         zoom="70"
         autofilter="yes");
proc print data=sashelp.class;
title "table 1";
run;
proc print data=sashelp.class;
title "table 2";
run;
ods tagsets.msoffice2k x close;
```





8. Can I Update an Excel Workbook?

- Typically ODS overwrites output and does not update
- The custom TableEditor tagset allows you to update from windows
- DDE allows you to pass commands to update workbooks and worksheets
- PROC EXPORT and the Excel Libname engine also allows updating

Can I Update an Excel Workbook (Continued)?

```
libname temp excel 'c:\temp\temp.xls';
data temp.'one'n;
                                                          Excel Libname Engine
   set sashelp.class;
run;
filename CMDS dde 'excel|system';
data null;
 file CMDS;
 put '[Open("C:\\temp\temp.xls")]';
 put '[workbook.insert("c:\report1.xls")]';
                                                          DDF
 put '[workbook.insert("c:\report2.xls")]';
 put '[workbook.insert("c:\report3.xls")]';
 put '[workbook.insert("c:\report4.xls")]';
 put '[ERROR("FALSE")]';
 put '[quit()]';
run;
```

7. Can Excel Worksheets be Created on Non-Windows Platforms?

- ODS can be used to create files on any operating system
- The SAS/ACCESS product can use the PC File Server for UNIX
- DDE is windows only

6. Can I Add an Image or Logo to the Worksheet?

- The ExcelXP destination does not allow images in the current release
- The MSOffice2K destination can use the HEADTEXT= option or a style
- The MSOffice2K_X custom tagset can use options
- DDE can inert images into a provided range

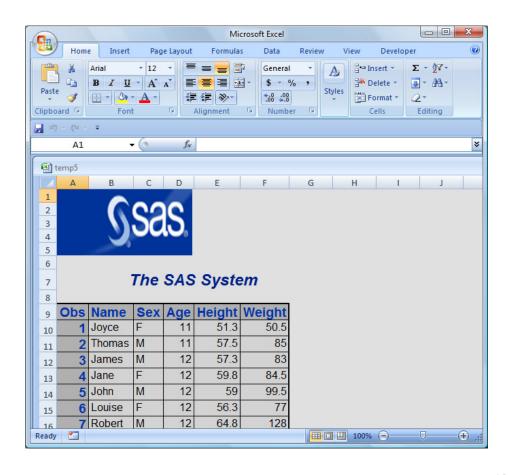
Can I Add an Image or Logo to the Worksheet (Continued)?

ods tagsets.msoffice2k_x file="c:\temp.xls" options(image_path="c:\temp\sas.gif"

image_height="100"
image_width="200");

proc print data=sashelp.class; run;

ods tagsets.msoffice2k_x close;



5. Can I Modify Page Setup Information?

- The ExcelXP tagset allows you to provide options such as the ORIENTATION=
- The MSOffice2K destination allows the use of CSS style properties
- Options can be passed with the MSOffice2K_X tagset
- DDE can be supply macro commands to update page setup

Can I Modify Page Setup Information (Continued)?

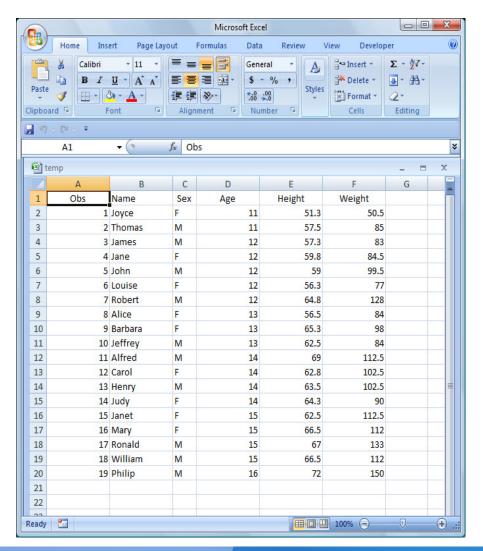
```
ods tagsets.excelxp file="temp.xml"
options (orientation="landscape"
        embedded_titles="yes"
        print_header='&L Page &n of &P'
        print_footer='&R Confidential';
        gridlines="yes"
        scale="80"
        row_repeat="3"
        blackandwhite="yes");
proc print data=sashelp.class;
run;
ods tagsets.excelxp close;
```

4. Can I Generate Output that Looks Like a Native Excel file?

- Output from the CSV destination has the appearance of native Excel output
- The ExcelXP tagset using a custom style can create this appearance
- The MSOffice2K_X custom tagset with the GRIDLINES= option
- PROC EXPORT generates this appearance by default

Can I Generate Output that Looks Like a Native Excel file (Continued)?

```
Proc template;
 define style styles.test;
   parent=styles.minimal;
     style body from body /
       background=transparent;
     style table from table /
      cellspacing=0
      borderwidth=0;
   end:
run;
Ods tagsets.excelxp
file="c:\temp.xml";
 Proc print data=sashelp.class;
 Run;
Ods tagsets.excelxp close;
```

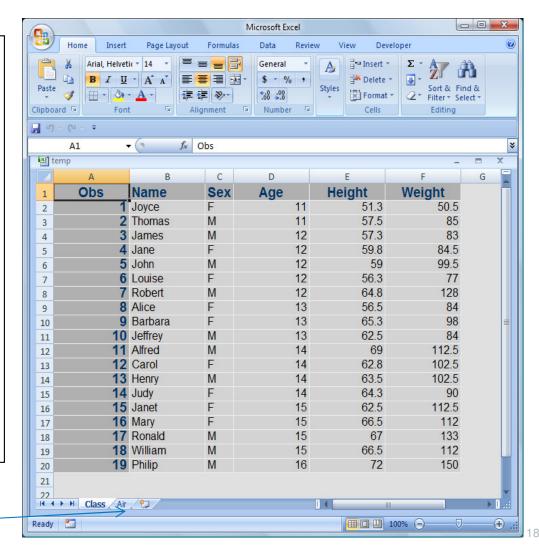


3. How Can I Generate Multiple Worksheets Per Workbook?

- The ExcelXP tagset generates multiple worksheets per workbook by default
- Custom tagset MSOffice2K_X uses existing files to update workbook
- DDE can be used to insert sheets into an existing workbook
- The TableEditor tagset creates a worksheet from each table

How Can I Generate Multiple Workbooks Per Worksheet (Continued)?

```
ods tagsets.excelxp file="c:\temp.xml";
ods tagsets.excelxp
options(sheet name="Class");
proc print data=sashelp.class;
Run;
ods tagsets.excelxp
options(sheet_name="Air");
proc print data=sashelp.air;
run;
ods tagsets.excelxp close;
```





2. How Can I Retain my Leading Zero?

- The General format is used by Excel when no format is applied
- The TAGATTR= attribute allows you to supply a format with the ExcelXP tagset
- The MSOffice2K /HTML destinations use the HTMLSTYLE= attribute to supply an Excel format
- DDE can be used to add formatting to a range

How Can I Retain my Leading Zero (Continued)?

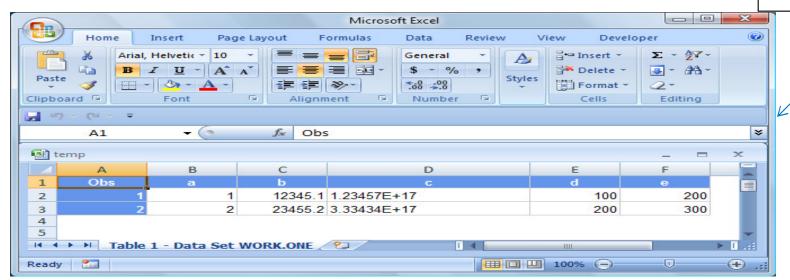
Destination	Style Attribute	Parameter	Excel Version
ExcelXP	TAGATTR=	format:	Excel 2002 +
MSOffice2k / HTML	HTMLSTYLE=	mso-number- format	Excel 2000 +
HTML3	HTMLSTYLE/ HTMLCLASS	mso-number- format	Excel 97+
CSV	No Formatting	N/A	N/A

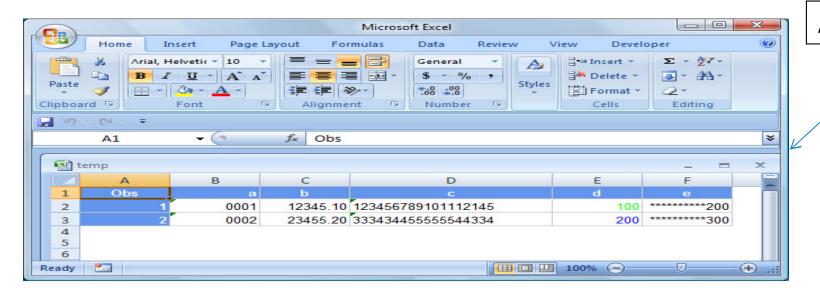
How Can I Retain my Leading Zero (Continued)?

```
data one;
   input a b c $18. d e;
0001 12345.10 123456789101112145 100 200 500
0002 23455.20 333434455555544334 200
run:
ods tagsets.excelxp file="temp.xls" style=styles.sasweb;
proc print data=one;
format a z4.;
yar a / style(data)={tagattr="format:@"};
var b / style(data)={tagattr="format:#####.#0"};
var c / style(data)={tagattr="type;String"};
yar d / style(data)={tagattr="format:[>100][blue]#, ###; [green]#, ###"};
yar e / style(data)={tagattr="format:**#,###"};
run;
ods tagsets, excelxp close;
```

How Can I Retain My Leading Zero (Continued)?

Without format





After format



1. How Can I Reduce the File Size?

- Save file from Excel using the native file format
- Update ExcelXP tagset if current version prior to v1.70
- Use the CSV destination if no formatting required
- Re-save file using DDE or the TableEditor tagset to native Excel file on windows
- Use PROC EXPORT or the Excel Libname engine

(How Can I Reduce the File Size (Continued)?

-DDE-

```
options noxwait noxsync;
filename cmds dde 'excel|system';
                                         Open worksheet
data _null_;
 file cmds;
                                         Save worksheet
  X=SLEEP(10);
  put "[open(""C:\temp\temp.xls"")]";
  put '[ERROR("FALSE")]';
  put "[SAVE.AS(""C:\temp\temp.xls"",1)]";
  X=SLEEP(2);
  put '[close("false")]';
run;
```

How Can I Reduce the File Size (Continued)?

-ODS-

Conclusion

 Using the various methods demonstrated, we can answer some of the most frequently asked questions and generate great worksheets

Resources

"ODS Markup Resources

"http://support.sas.com/rnd/base/topics/odsmarkup/

"Tips For Creating ODS Files on Z/OS "http://support.sas.com/rnd/base/ods/templateFAQ/MVSODS 3.pdf

"Create a Data Grid Like VB .NET" http://support.sas.com/rnd/base/ods/odsmarkup/tableeditor/