




Exchanging Data Between SAS® and Microsoft Products



Presentation Formats:
Half-day in classroom or via the internet.
Also see our **full-day** seminar, "Success with the SAS Output Delivery System"

An in-depth overview of SAS System capabilities allowing movement of data between these two popular software products. Learn how to save time and programming steps needed to move data between SAS and Microsoft products such as Excel and Word.

After taking this seminar you will be able to:

- Apply the functionalities for the SAS Import and Export Wizards
- Take advantage of PROC IMPORT and PROC EXPORT options
- Understand how the CSV and CSVALL ODS Destinations are used to move Procedure Output to Excel-readable files
- Apply SAS Programming Language tools in a Data Step to clean up your 'messiest' spreadsheet files before turning them in to SAS data sets
- Create Excel-readable files from SAS Procedure output
- Assign colors and other appearance attributes to the files you output to Excel-readable files
- Create RTF files from SAS Output for Inclusion in Word and/or Powerpoint files
- Use XML Tagsets to Create Multi-sheet XLS files with a SAS Program
- Learn Excel LIBNAME tools available in SAS 9 Software.

Overview

This half-day session explains and demonstrates a range of techniques for transferring data between the SAS System and Microsoft products such as Excel and Word. You will learn different tools available to exchange data between these software products, and understand which tools are better suited for different data transfer tasks than others. Among the topics covered are the IMPORT and EXPORT "wizards," the IMPORT and EXPORT procedures, the EXCEL Libname Engine, Dynamic Data Exchange (DDE), and how the SAS Output Delivery System (including XML Tagsets) can be used to create files in formats that can then be opened by Microsoft products.

Intended Audience

"Exchanging Data Between SAS and Microsoft Products" is appropriate for attendees who are already familiar with core SAS System concepts such as data set, data step, variable, and observation, and know how to apply SAS procedures to data sets to create output reports/analyses. Familiarity with SAS Output Delivery concepts such as "destination," and "style template" is helpful but not required to obtain full benefit from attending this session.

Seminar Topics:

Using the IMPORT and EXPORT "Wizards"

- Starting and Running the Wizards
- Saving the code generated by the "wizards" for re-use
- Benefits/drawbacks to the "Wizards."

Applying the IMPORT and EXPORT Procedures

- PROCs vs. "Wizards"
- Important defaults and options available in the IMPORT and EXPORT Procedures
- Preparing your spreadsheets for successful import in to SAS

"Scrubbing" Your Messiest Spreadsheet Data in the Data Step

- INFILE Statement Options to Use When Importing CSV Files in to SAS Data Sets
- INFORMATs that make your life easier when reading "messy" raw data

Dynamic Data Exchange (DDE) Approaches to Move Data Between SAS and Excel Output Delivery System (ODS) Tools to Move SAS Output to MS-Readable Files

- Applying the ODS CSV and HTML Destinations to create Microsoft-readable files from SAS Procedure Output
- Using SAS-supplied and user-written customized templates to control the appearance of your output
- How to traffic-lighting the rows and/or columns of your output
- Using the ExcelXP and other Tagsets to create XML files from SAS Output that are easily "read in to" Excel spreadsheets
- Creating tables with Column-Headers "frozen" at the top of the file
- Generating multiple worksheets in a single Excel workbook
- Using the RTF Destination to create tables and reports from SAS Procedure output that you can include in Word documents and Powerpoint presentations

Understanding the Power and Flexibility of the SAS 9.1 EXCEL LIBNAME Engine

Contact Sierra Information Services For More Information:

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About the Instructor

This seminar is written and presented by Andrew Karp, who started his own SAS Software consulting and training firm, Sierra Information Services, in 1994. Prior to starting Sierra he used SAS Software to manage and analyze data while holding positions with PriceWaterhouseCoopers, Federal Express Corporation, Pacific Gas & Electric Company and Kaiser Foundation Health Plan. A 25-year SAS user, Andrew is a SAS Certified Professional™ who has presented this, and other, training seminars to SAS users in the United States, England, Scotland, Belgium, Australia, New Zealand and the People's Republic of China.

He has served on the technical review teams for seven books published by SAS Institute and has been an invited speaker at twelve consecutive SAS Global Forum/SAS User Group International conferences, as well as other events for SAS users in seven countries. Andrew earned undergraduate and graduate degrees from The George Washington University and taught SAS classes for UC Berkeley's Extension Division from 1989 to 1995. He has also been a visiting lecturer in the Dept. of Experimental Statistics at Louisiana State University and at the University of Auckland in New Zealand.

About Sierra Information Services

Sierra Information Services is a **leading independent provider of SAS Software** consulting and training services. Our firm is based in the California Wine Country region north of San Francisco but travel both domestically and internationally to work with clients and present training seminars. Sierra offers clients a wide range of support, including SAS programming, data analysis/data mining with SAS tools, as well as the design and delivery of customized SAS Software training solutions tailored to the client's individual needs. Since its inception in 1994 Sierra has provided consulting and/or training services to, among others, Wells Fargo Bank, Bear Creek Corporation, Limited Brands, IBM, American Honda Motor Company, Lloyd's Bank/TSB, Capitol One Financial Services, Inc., Discover Financial Services, Inc., the US Department of Commerce and the US Federal Communications Commission. We have also provided consulting and training for numerous public and private sector entities in the United Kingdom, Belgium, Australia and New Zealand.

In addition to training solutions developed by Sierra's founder, Andrew Karp (see instructor's bio above), Sierra also works with other leading SAS experts to offer their training seminars around the United States. Sierra is proud to have well-known experts such as Art Carpenter, Michael Raithel, and David Cassell present their training seminars under our auspices.

For the most current list of our public seminars, or to learn more about how Sierra can assist you and your organization, please visit our web site at www.Sierrainformation.com or call us a (707) 996 7380. We look forward to hearing from you soon!



*...Maximizing your investment in the SAS® System...
and those in your organization who use it...*

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