

# ODS (Output Delivery System)

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- Provides enhanced formatting and report grouping capability for SAS output
- Part of SAS base
- Version 7 and earlier was printer oriented
  - PDF was an option
- Started in SAS version 8
- Build Web output (HTML, Java, etc.)
- In SAS 9 and beyond ODS becomes even more essential for delivering output
- ODS provides the structure and format for output
- Good Source: Output Delivery System: The Basics, Lauren E. Haworth, SAS Publishing, 2001

# Output Delivery System Output Delivery System

**Donald A. Mahler, Rajiv Dhand**

## **Output Delivery System Output Delivery System:**

**Output Delivery System** Lauren E. Haworth,2001 Output Delivery System The Basics is an example driven book that is geared toward beginner and intermediate ODS users and that demonstrates the many wonders of ODS Beginning with basic syntax and progressing to more complex techniques and custom styles you will learn to take basic SAS output and transform it into a beautiful integrated Web page a word processor friendly RTF file high resolution printed output and a bookmarked PDF file You can also create a data set from the results of most procedures allowing you to build your own custom reports Each of the wide array of ODS techniques is presented in an easy to use two page layout with the text and code on one page and the resulting output on the facing page **The Complete Guide to the SAS Output Delivery System** ,1999

Output Delivery System Lauren E. Haworth,Cynthia L. Zender,Michele M. Burlew,2009 **Getting Started with the Output Delivery System Course Notes** Michael Friendly,2000 Advanced Output Delivery System Topics Michele Ensor,2007 **SAS 9.4 Output Delivery System** SAS Institute,2014-05-14 Annotation Provides usage information and examples for Output Delivery System ODS capabilities The document describes a wide range of formatting options and shows how to gain greater flexibility in generating storing and reproducing SAS procedure and DATA step output Provides usage information and examples for Output Delivery System ODS capabilities The document describes a wide range of formatting options and shows how to gain greater flexibility in generating storing and reproducing SAS procedure and DATA step output

Instant ODS Bernadette Johnson,2003-09-01 Producing great looking SAS output has never been easier Take advantage of the formatting capabilities of the SAS Output Delivery System ODS without the learning curve Instant ODS is a suite of 50 ready to run ODS style templates on CD ROM that provide you with instant access to a library of business ready style templates for stylizing HTML PDF and RTF output Simply select the desired template add the template name to your code then run your code to generate professional looking output with minimal programming Instant ODS enables you to have immediate success with ODS SAS users of all levels from novice to advanced will appreciate the convenience of this resource 2003 **SAS 9.3 Output Delivery System** Sas Institute,2011-07 **SAS 9.4 Output Delivery System** SAS

**Inhaled Delivery Systems for the Treatment of Asthma and COPD** Donald A. Mahler,Rajiv Dhand,2023-07-19 Inhaled therapies form the cornerstone for treatment of patients with asthma and COPD Evolving technology has resulted in availability of a wide range of devices for delivery of inhaled drugs The four different delivery systems pressurized metered dose inhalers slow mist inhalers dry powder inhalers and nebulizers are unique in design and require distinct inhalational instructions for correct use This book provides current information about inhalation devices including their advantages and disadvantages with guidance for optimal techniques of use The book emphasizes appropriate selection of inhalation devices based on patient and health care professional factors as well as device attributes that allow selection of the right medication in the right inhalation device at the right time for the right patient Key Features Addresses

the objective of precision medicine the right medication in the right inhaler device at the right time Inputs by international thought leaders who have published widely on inhaled medications and or inhaled delivery systems for clinicians trainees and respiratory therapists Discusses the development of audio based systems and smart inhalers for patient monitoring [Quick Results with the Output Delivery System](#) Sunil Gupta,2003 Improve the appearance of your SAS output today Learn the basic concepts of the Output Delivery System ODS and apply ODS features to your SAS output quickly and effectively [Using SAS for Data Management, Statistical Analysis, and Graphics](#) Ken Kleinman,Nicholas J. Horton,2010-07-28 Quick and Easy Access to Key Elements of Documentation Includes worked examples across a wide variety of applications tasks and graphics A unique companion for statistical coders Using SAS for Data Management Statistical Analysis and Graphics presents an easy way to learn how to perform an analytical task in SAS without having to navigate through the extensive idiosyncratic and sometimes unwieldy software documentation Organized by short clear descriptive entries the book covers many common tasks such as data management descriptive summaries inferential procedures regression analysis multivariate methods and the creation of graphics Through the extensive indexing cross referencing and worked examples in this text users can directly find and implement the material they need The text includes convenient indices organized by topic and SAS syntax Demonstrating the SAS code in action and facilitating exploration the authors present example analyses that employ a single data set from the HELP study They also provide several case studies of more complex applications Data sets and code are available for download on the book s website Helping to improve your analytical skills this book lucidly summarizes the features of SAS most often used by statistical analysts New users of SAS will find the simple approach easy to understand while more expert SAS programmers will appreciate the invaluable source of task oriented information

[Advanced Output Delivery System Topics Course Notes](#) SAS Institute,2006-06-15 [\*\*SAS 9.4 Output Delivery System, 3rd Edition\*\*](#) ,2014 Provides usage information and examples for Output Delivery System ODS capabilities The document describes a wide range of formatting options and shows how to gain greater flexibility in generating storing and reproducing SAS procedure and DATA step output [\*\*PROC DOCUMENT by Example Using SAS\*\*](#) Michael Tuchman,2012-10-01 PROC DOCUMENT by Example Using SAS demonstrates the practical uses of the DOCUMENT procedure a part of the Output Delivery System in SAS 9 3 Michael Tuchman explains how to work with PROC DOCUMENT which is designed to store your SAS procedure output for replay at a later time without having to rerun your original SAS code You ll learn how to save a collection of procedure output descriptive text and supporting graphs that can be replayed as a single unit save output once and distribute that same output in a variety of ODS formats such as HTML CSV and PDF create custom reports by comparing output from the same procedure run at different points in time create a table of contents for your output modify the appearance of both textual and graphical ODS output even if the original data is no longer available or easily accessible manage your tabular and graphical output by using descriptive labels titles and footnotes rearrange the original order of

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