

# ODS

## **Abstract**

This is an attempt to update you on where to find information on facilities, usage plus sources of inspiration for using the Output Delivery System. It is a short, relatively non technical presentation which will cover:-

- Write-ups on some of the new facilities available from ODS
- sources of information to further your understanding of ODS

## **Steven Dunn – Brief Background**

Steven is a Senior Consultant, specializing in the Service Delivery disciplines. His main areas of experience cover Technical Management, Configuration Management, Capacity and Performance Management, Security, Storage Management plus assorted esoteric (more due to client necessity) aspects of computing in diverse environments. Steven is a registered SAS consultant and has been using the SAS environment since 1987 for the purposes of Computer Performance Evaluation, and more recently Data Warehousing and Business Intelligence activities. Steven has utilised SAS on all of the major platforms that it is available on. He has been a member of the SAS Melbourne User Group committee for over 10 years.

## **ODS – What is it**

To some people ODS just provides them an easy way to create CSV output. (way better than the old macro method)

As with most things, the more you play with ODS the more benefits you will get from its functionality. You can output to PDF, RTF, printers, plotters, HTML, XML, delimited files or SAS datasets. The ODS document enables a SAS user to “re-render” ODS output without rerunning procedures, and to give the user more control over the structure of the output than was possible in the past. You can further control the look and feel of the output using External templates, Style templates, User-defined formats, Global options, SAS/GRAPH options, Procedure options, etc.

## **ODS – What is new?**

ODS MARKUP Resources are updated whenever SAS R&D issues new or updated tagsets between releases. They are available for download from the SAS website.

XML LIBNAME Engine – a number of updates in this area –  
<http://support.sas.com/rnd/base/xmlengine/index.html>

Using ODS to Publish Packages – Preproduction in 9.2  
<http://support.sas.com/rnd/base/ods/odspackages/index.html>

New [ODS Printer](#) features in SAS 9.2.

### [Viewing Current Style Settings for ODS HTML Output](#)

To see the style definitions for your ODS HTML output, use the ODS MARKUP statement together with one of the utility tagsets described in this note.

<http://support.sas.com/kb/24/065.html>

## **Information Sources**

### **WEB**

<http://support.sas.com/rnd/base/ods/>

This page is part of the [Base SAS Community](#) and is an "anchor point" for lots of information (new, current and historical) regarding ODS - the Output Delivery System.

### **WIKI**

The SAS community maintains a WIKI at the address -

[http://www.sascommunity.org/wiki/Category:Output\\_Delivery\\_System](http://www.sascommunity.org/wiki/Category:Output_Delivery_System)

### **Manuals (with web links where possible)**

Go to SAS OnlineDoc(<http://support.sas.com/onlinedoc/913/docMainpage.jsp>)

Expand out the Base SAS entry.

Then select SAS Output Delivery System: User's Guide – there is a feast of information from here.

### **Books (with web links where possible)**

- [Instant ODS: Style Templates for the SAS Output Delivery System](#), by Bernadette Johnson
- [Output Delivery System: The Basics](#), by Lauren Haworth
- [Quick Results with the Output Delivery System](#), by Sunil Gupta

### **Papers (with web links where possible)**

#### **ODS for SAS 9.1**

The paper A Soft Landing to ODS 9.1 (downloadable as a pdf) explains differences in ODS between SAS 8.2 and SAS 9.1. See link

<http://support.sas.com/rnd/base/ods/templateFAQ/ODS91.pdf#pagemode=bookmarks>)

#### **Using the SAS® Output Delivery System and PROC TEMPLATE to Create XHTML Files.** See Link

[www2.sas.com/proceedings/forum2007/118-2007.pdf](http://www2.sas.com/proceedings/forum2007/118-2007.pdf)

Note: this is for SAS 8.2

### **Creating HTML Output with Output Delivery System**

Kirk Paul Lafler, Software Intelligence Corporation, Spring Valley, CA  
See link : [www.lexjansen.com/pharmasug/2005/coderscorner/cc07.pdf](http://www.lexjansen.com/pharmasug/2005/coderscorner/cc07.pdf)

**Paper 057-2007 - Saving Trees with Output Delivery System (ODS)** by Angelina D. Tan, Nancy Dilehl, Jay N. Mandrekar. See link  
[www2.sas.com/proceedings/forum2007/057-2007.pdf](http://www2.sas.com/proceedings/forum2007/057-2007.pdf)

### **SAS Tech Report – February 12 2008**

This contains a couple of references and links to ODS facilities. See link  
<http://www.sas.com/news/newsletter/tech/current.html>

### **Code Samples**

**Quick Results with the Output Delivery System \*//\*** by Sunil Gupta ...  
See link - <http://ftp.sas.com/samples/A58458>

**SAS ODS Links.** Example 1 - HTML · Example 2 - RTF · Example 3 - PDF · Example 1-3 Style – Using styles · Example 4 - Trace · Example 5 – etc  
<http://www.docscodeshop.com/index.html>