

SMUG User Group What's New at SAS?

March 18th 2009

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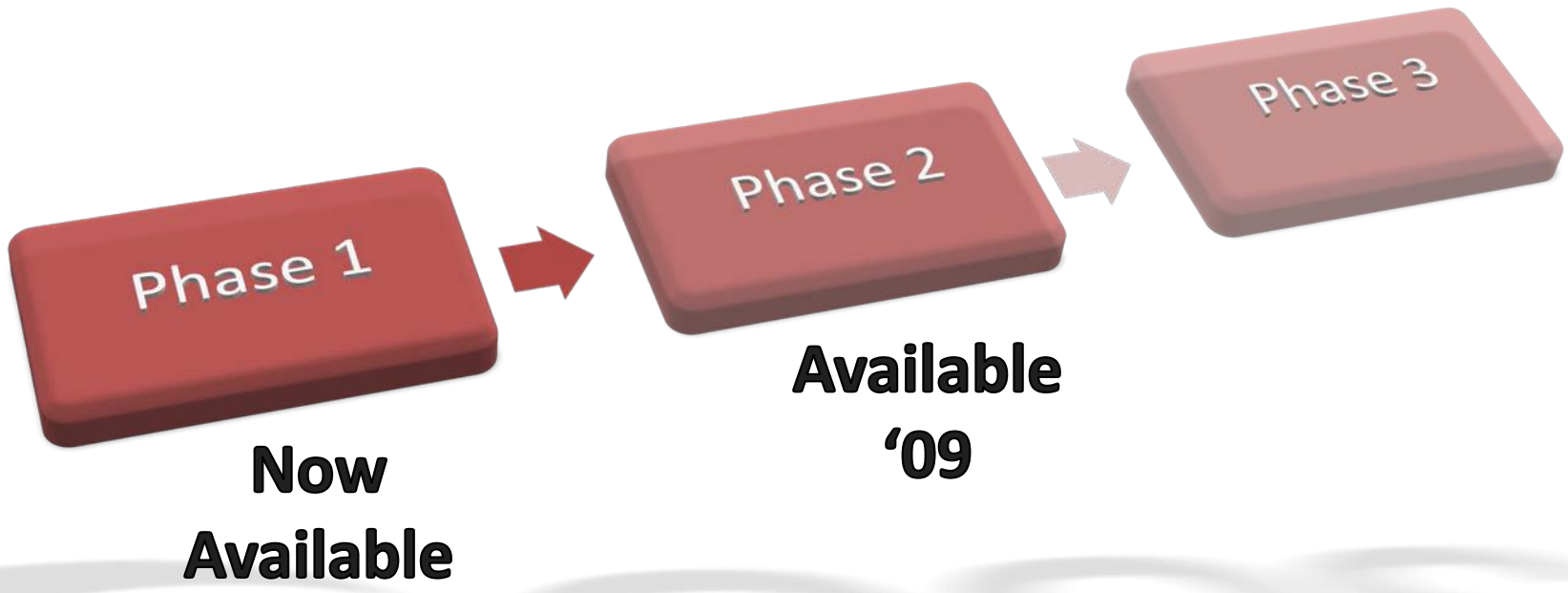


- SAS 9.2
 - Industry-leading Business Intelligence
 - Advanced Analytics
 - Data Integration

- More widespread
- Simpler to deploy and manage

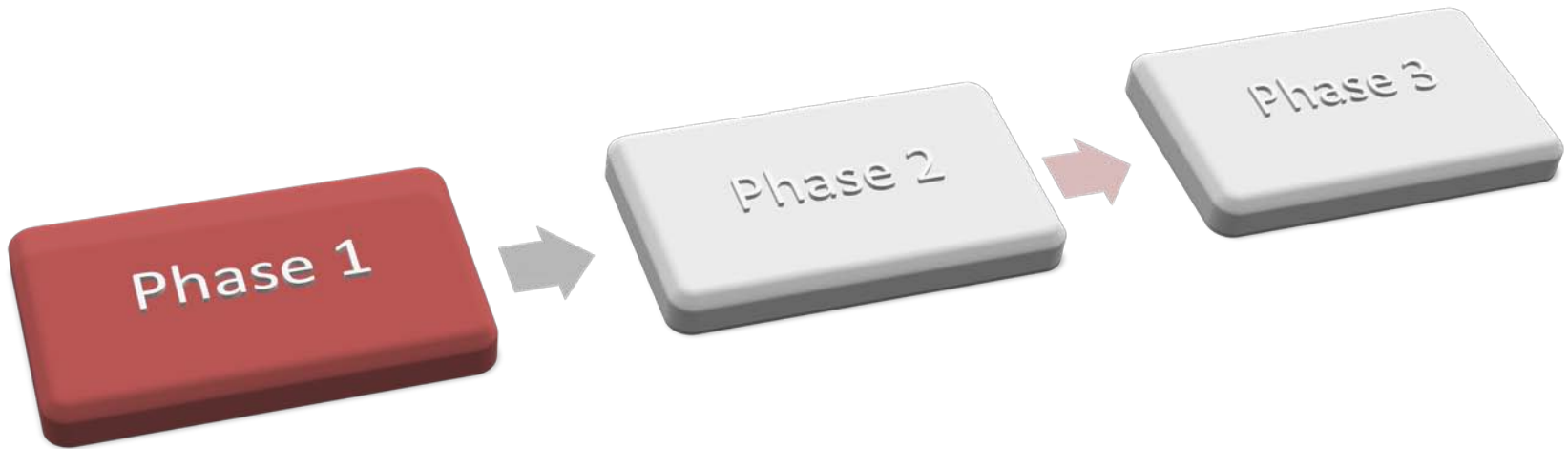


SAS 9.2 One Release Incremental Software Availability Update





SAS 9.2 – Phase 1 Now Available

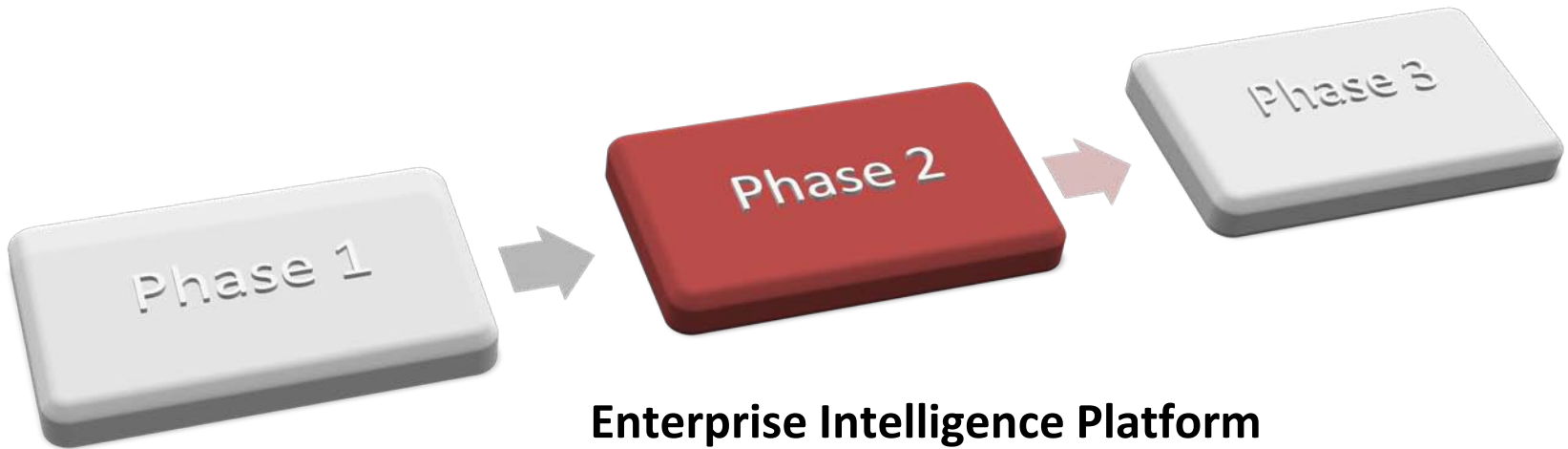


Core Foundation Products

- BASE SAS, SAS/STAT, SAS Graph etc.
- No products reliant on metadata



SAS 9.2 – Phase 2 Next Phase – Q2

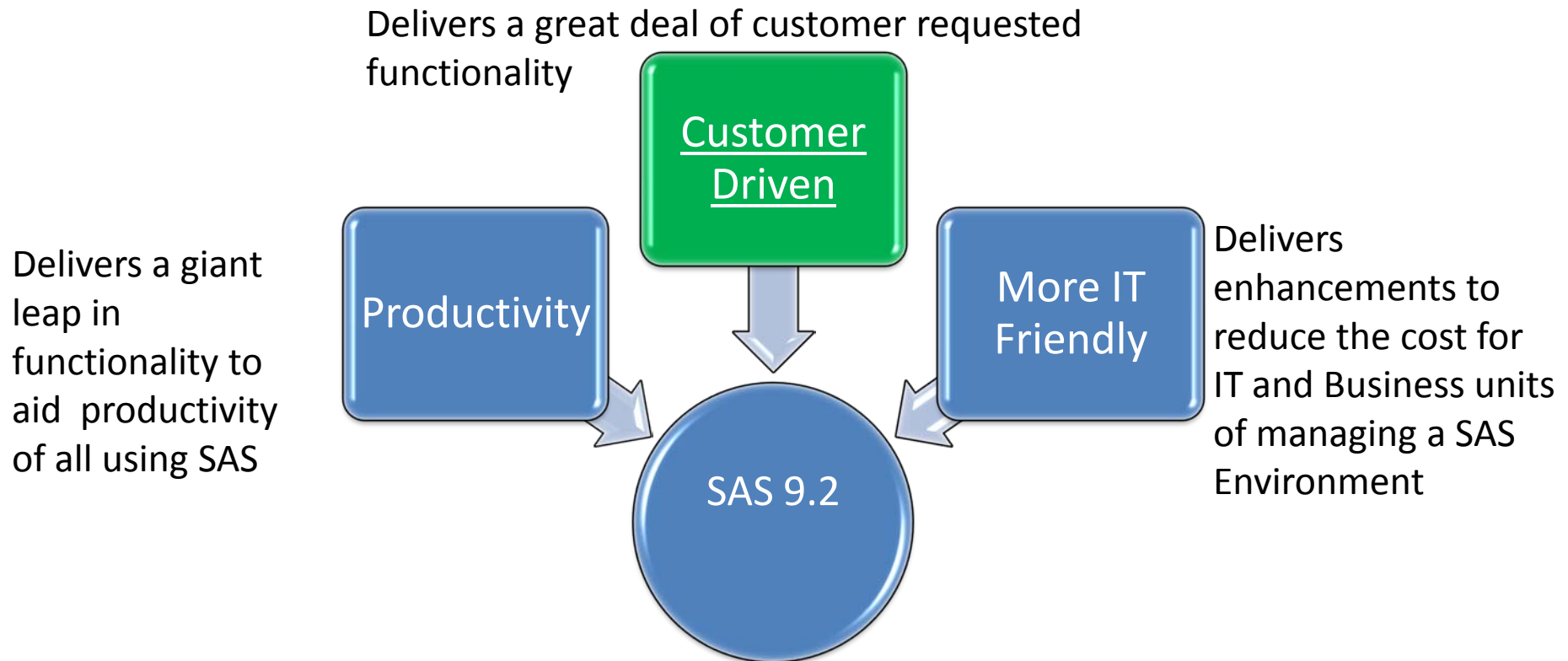


Enterprise Intelligence Platform

- Business Intelligence
- Data Integration
- Enterprise Miner
- Forecast Server
- Text Miner
- Model Manager

SAS 9.2 Value Proposition

- Not just a “minor DOT” release. A major step forward in SAS technology



SAS 9.2

- Major update in Platform Support
 - Operating Systems
 - Java Application Servers
 - 64 bit Windows
 - Break the 2G ceiling
- New functionality across all products
- New Baseline Architecture Level
 - Minor releases will build on initial versions

So Why Move to 9.2?

- Reduced Cost of Management for IT
- Enhanced Robustness – greater uptime
- Greater productivity
 - For developers
 - For analysts and users
- Improved Collaboration
- Improved scalability with 64 bit support for Windows customers
- Supports current versions of operating systems & other products.
- Provides baseline for future enhancements



9.2 Selected New Programming Features

- Create Functions and Subroutines with PROC FCMP
 - Ability to write functions and CALL routines using DATA step syntax

- XML Files and the SAS 9.2 XML LIBNAME Engine
 - Read an XML file into SAS
 - Create an XML file from a SAS data set
 - Export the data set to an XML related product or process

9.2 Selected New Programming Features

- SAS Code Analyser (SCAPROC Procedure)
 - Run-time utility to determine and examine dependencies in a SAS job
- Error Processing and Debugging with Checkpoint/Restart Feature
 - SAS records last successful DATA or PROC step in a checkpoint catalog
 - If restarted, program resumes execution from next step
 - Intended for production jobs that “fall over”

9.2 Selected New Programming Features

➤ Procedures

- BLANKLINE option in various reports to insert blank lines
- PROC UNIVARIATE, PROC FREQ have ODS graphics support

➤ Functions

- GEODIST: returns geodetic distance between two pair of latitude and longitude coordinates
- COUNTW: counts the number of words in a character expression

9.2 Selected New Programming Features

➤ Statements

- Data Set Named Ranges
 - `set a1 – a10; /* named range */`
 - `set sales.jan: ; /* begins with */`
- SET Statement INDSNAME Option
 - Creates a temporary variable that stores the name of the SAS data set from which the current observation is read

9.2 Selected New Programming Features

➤ Enhancements to ODS and Graphics

- ODS Statistical Graphics
 - Statistical procedures should generate graphical displays for statistical analyses as easily as they do tables with minimal optional syntax
- New Graph Procedures in ODS
 - PROC SGSCATTER: single-cell and multi-cell scatter plots and scatter plot matrices with optional fits and ellipses
 - PROC SGPLOT: overlaid plots on a single set of axes, variety of plot and chart types
 - PROC SGPANEL: panel for the values of one or more classification variables, a single plot or multiple overlaid plots
 - PROC SGRENDER: graphical output from templates created using the Graph Template Language

9.2 Selected New Programming Features

➤ New to PROC SQL

- New options to make processing faster
- SELECT DISTINCT can now make use of indexes
- Three new DICTIONARY tables:
 - DICTIONARY.DESTINATIONS
 - DICTIONARY.FUNCTIONS
 - DICTIONARY.INFO_MAPS

9.2 Selected New Programming Features

➤ Hash Object

- New initialisation options, including:
 - 'duplicate' to determine whether to ignore duplicate keys when loading a data set into hash object
- New methods, including:
 - HAS_NEXT / HAS_PREV
 - FIND_NEXT / FIND_PREV

➤ Linguistic Sorting

- PROC SORT supports linguistic collation

➤ LIKE operator

- The LIKE operator now supports an escape character

9.2 Resources

➤ What's New in 9.2 Documentation

- <http://support.sas.com/documentation/whatsnew/index.html>

➤ Migrating to 9.2

- <http://support.sas.com/rnd/migration/index.html>