

# 2004 ASUG Annual Conference & Vendor Fair

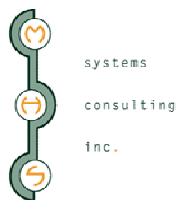


April 18-21

Georgia World  
Congress Center

Atlanta, Georgia, USA

## Choosing an SAP Form Tool: SAPscript, Smart Forms or the Adobe/SAP Solution [Session code 2301]



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MHS Systems Consulting, Inc.

Matthias Zeller, Sr. Product Manager,  
Adobe Systems Incorporated



- Introduction
- Tool Overview
  - SAPscript
  - Smart Forms
  - Joint Adobe/SAP Solution
  - Other Tools
- Tool Selection
  - New Forms
  - Existing Forms
- Summary



## Mark Smithson: MHS Systems Consulting, Inc.

- *Senior Consultant with special expertise in form printing and development in SAP applications*



## Matthias Zeller: Adobe Systems, Inc.

- *Senior Product Manager responsible for the product requirements, evangelizing, and roll-out process in the Adobe/SAP Alliance*



*"To the man who only has a hammer in the toolkit,  
every problem looks like a nail." - Abraham Maslow*



- SAP offers three distinct output form tools
  - SAPscript
  - Smart Forms
  - Joint Adobe/SAP Solution
- Third-party form tools exist as well

Choosing the right one can be confusing



- **Background**
  - Based on mainframe product from 1980s
  - Minor improvements over time
- **Pros:**
  - Legacy tool – a ‘known quantity’
  - Many existing preconfigured form templates
- **Cons:**
  - Not particularly ‘user-friendly’
  - Limited output options
  - No further enhancement

# Screen Shot – SAPscript interface



Form Edit Goto Attributes Utilities Settings System Help

Form: Change Page Windows: ZZ\_RVORDER02

Pages Windows Paragraph formats Character formats

Page window  
Page FIRST

Window	Description	Left	Upper	Width	Hght
MAIN	Main window	7,00 CH	34,00 LN	71,00 CH	29,00 LN
ADDRESS	Addressee				
FOOTER	Footer				
HEADER	Header				
INFO	Information (General data)				
INFO1	Additional data window				
REPEAT	Repeat printout				

Page window 1 of 7

Standard attributes

Window	MAIN	Description
Window type	MAIN	
Left margin	7.00 CH	Window w
Upper margin	34.00 LN	Window h

standard editor

Form Edit Goto Attributes Utilities Settings System Help

Form: Change Page Layout: ZZ\_RVORDER02

Form ZZ\_RVORDER02 - Layout of page FIRST

Page FIRST First page

Window Graph.

Name MAIN

Main window

Default par.

Left margin	7.00 CH
Upper margin	34.00 LN
Window width	71.00 CH
Window height	29.00 LN

Design / Text Options

graphical form editor

# Screen Shot – SAPscript output



Current System = TRN

IDES Holding AG, Postfach 18 08 29, D-60070 Frankfurt/III

MHS Systems Consulting, Inc.  
2250 Woodland Ln N  
Riverwoods IL 60015

### Order confirmation

Number/Date  
20 / 10/30/2003  
Reference no./Date  
unconfirmed line  
Cust. no.  
100001

Ship-to address

We deliver according to the following conditions: Currency USD  
 Terms of payment Within 14 days 2.000 % cash discount  
 Within 30 days without deduction

Terms of delivery CIF destination

Weights (gross/net) - Volume - Mark  
 Gross weight 7.600 LB Net weight 7.600 LB

Item	Material	Qty	Description	Price	Price unit	Value
000010	C-125-0001		Codein Phosphate 62.5MG			
		152 EA		7.95	USD	1,208.40
			Split the overall quantity over the following delivery dates:			
		Qty Unit	Delivery date			
		1 EA	Day 11/30/2003			

Final amount 1,208.40





- **Background:**
  - Introduced in release 4.6c
  - Replaced SAPscript as official form tool
- **Pros:**
  - More advanced output options (PDF, XML)
  - Graphical editor
  - Table & template painters
  - Vastly improved graphical interface
- **Cons:**
  - Fewer form templates than SAPscript
  - No further enhancement as of Web AS 6.40 (bug fixes only)

# Screen Shot – Smart Forms interface



SAP Form Builder: Display Text TAX\_TEXT

Form LE\_BIL\_INVOICE

- Global settings
  - Form attributes
  - Form interface
  - Global definitions
- Pages and windows
  - FIRST Page 1
    - HEADER\_LOGO Logon box
    - HEADER Header Window
    - NAME Form Title
    - INFO Information (General Data)
    - ADRESS Address Window
    - INFO1 Ship-to party header
    - CONDITIONS Shipping, payment require...
    - WEIGHTVOLUME Weight and volume
    - MAIN Main window
    - TAX\_TEXT tax-exempt**
    - HTLEINVOICEDetails Invoice details
    - TABLEITEM Invoice items
      - Header
        - READ\_REF\_DATA Determine Reference Numbers
        - READ\_KOND\_DATA Determine Condition Records
        - IT\_GEN\_COL1 Item number
        - IT\_GEN\_COL2 Material
        - IT\_GEN\_COL3 Quantity
        - IT\_GEN\_COL4 Unit of Measure
        - IT\_DESC\_COL1 Description
        - IT\_CHARG\_COL2 Batch
        - LOOP\_KOND Condition records
        - LOOP\_CONF Configuration data
        - LOOP\_CONFBATCH Batch Configuration
          - IT\_REFORD\_COL2 Order reference
          - IT\_REFFDLV\_COL2 Delivery note reference
          - IT\_REFFPURORD\_COL2 Order reference
          - IT\_REFFVG2\_COL2 G2 Invoice reference
          - IT\_REFFVG2\_COL2\_A G2 Order reference
        - READ\_KOND\_DATA\_SUM Determine Condition Records
        - READ\_REFFIELDS Reference fields
        - INFO\_POS\_SUM\_ANZ Item Total Down Payments
        - TABLEKOND Header Conditions

Navigation Menu

Maintenance Frame

Form Painter

# Screen Shot – Smart Forms output



The Preconfigured Company  
 3475 Deer Creek Road Phone: (650)849-4000  
 Palo Alto, CA 94304-0000 Fax: (650)849-4004  
 U.S.A. Internet: www.saplabs.com/pcc

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 03/26/2002 16:11:10

## Invoice

### Sold-To-Party

Smart Print Inc.  
 3475 Deer Creek Road  
 LO6 GATOS CA 95032  
 USA

### Information

Document No./Date 90000217/ 03/22/2002  
 Delivery Note No./Date 80000212/ 03/22/2002  
 Reference Order 598/ 03/22/2002  
 PO No./Date PRINT TEST ORDER  
 Customer No. 1002892  
 Currency USD  
 Invoice Amt 4,212.14  
 Term of Payment Up to 04/21/2002 without  
 Incoterm DHL  
 Gross Weight 50 LB  
 Net Weight 50 LB

Item	Material/Description	Quantity	Unit Price	Value
10	3226 myPCC Print Paper <i>This is the sales text for the material. Line 1. This is the second line for the "Sales text for customer"</i>	20 EA	19.99	399.80
	<i>This is the sales text for the material. Line 1. This is the sales text for the material. Line 2.</i>			
	Customer Discount	-0.500 %		-19.99
	Material Discount	-5.00 USD	EA	-100.00
20	3227 myPCC Glossy Photo Paper <i>This is the sales text for the material. Line 1. This is the sales text for the material. Line 2.</i>	15 EA	29.99	449.85
	<i>This is the sales text for the material. Line 1. This is the sales text for the material. Line 2.</i>			
	Customer Discount	-0.500 %		-22.49
	Material Discount	-7.00 USD	EA	-105.00
30	3228 myPCC Heavy Weight Photo Paper <i>This is the sales text for the material. Line 1. This is the sales text for the material. Line 2.</i>	10 EA	39.99	399.90
	<i>This is the sales text for the material. Line 1. This is the sales text for the material. Line 2.</i>			
	Customer Discount	-0.500 %		-20.00
40	3229	2 EA	499.99	999.98



Company  
 load Phone: (650)849-4000  
 4-0000 Fax: (650)849-4004  
 Internet: www.saplabs.com/pcc

Page 1 of 2  
 03/26/2002 14:21:17

## Purchase Order

### Information

PO Number 216  
 Date 01/21/2002  
 Vendor No. 10374  
 Currency USD  
 Payment Terms NT30  
 Description Net due in 30 days  
 Buyer myPCC Buyer 1  
 Phone 650-849-4000  
 Resale No. XX XXX XX-XXXXXX  
 Delivery Date 02/04/2002  
 Inco Terms CIF  
 Description San Francisco

	Quantity	UM	Net Price	Net Amount
	2.00	EA	11.00	22.00
MATERIALNUM 007	2.00	EA	7.04	14.08
USD	16.00			
%	-1.02			
	3.00	EA	8.00	24.00
	4.00	EA	8.00	32.00
	5.00	EA	6.00	30.00
	6.00	EA	7.00	42.00

Page 1 of 3  
 03/26/2002 14:15:58

## Request for Quotation

### NOT AN ORDER

20000125  
 02/08/2002  
 myPCC Buyer 1  
 650-849-4000  
 XX XXX XX-XXXXXX  
 03/10/2002

Unit Price	Amount
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00



- **Background:**
  - Collaboration between SAP and Adobe Systems
  - Being introduced in Web AS 6.40/NetWeaver 04
  - ERP 04 solution will provide forms based on the new technology
- **Adobe provides**
  - Open technology, de-facto standard for forms
  - Combine benefits of PDF with open XML technology
- **Benefits of SAP-Adobe cooperation**
  - Integration of Adobe PDF technology into SAP solutions
  - 500 million Adobe Readers distributed worldwide
  - User-friendly design tool significantly reduces TCO
  - Pre-existing PDF forms, e.g. government forms, can be re-used



- **Pros:**

- Adobe Designer integrated into ABAP Workbench Form Builder
- User-friendly, 'paper-like' layout
- Adobe Designer can import existing PDF forms
- Leverages people's experiences with paper forms (e.g. IRS W4 form)
- Easy client-side form printing
- Supports PDF, PS, PCL and ZPL output

- **Cons:**

- No direct conversion from SAPscript (Smart Forms only)
- Limited number of SAP pre-built forms today



- **Graphical Forms Designer**
  - Integrated with SAP development environments (NetWeaver Developer Studio and ABAP Workbench)
  - Import existing PDF documents and make them interactive
- **PDF Documents with Adobe Reader Rights**
  - Enable new functionality in Adobe Reader, like “Save as”, Annotations, Digital Signature and Certification
  - Can be turned on by document
- **Interactive online forms**
  - Visually rich Adobe PDF forms
  - Tightly integrated with existing SAP User Interface framework
- **Interactive offline Adobe PDF forms (round-trip forms)**
  - Created and distributed from the SAP application
  - Are completed by the user in Adobe Reader while offline
  - Completed form can be submitted using the integrated “submit” button, via e-mail or http

# Demo – Adobe/SAP Solution – Print forms



Form Builder: Change Form PURCHASE\_ORDER

Form: PURCHASE\_ORDER Inactive

Properties Context Layout

Edit View Insert Layout Tools Palettes Help

68%

Hierarchy Data View

Drawing Accessibility Report

Bindings Warnings

Fields with Normal Data Binding

- txtPONum
- dtmDate
- txtOrderedByCompanyName
- txtOrderedByAddress
- txtOrderedByCity
- txtOrderedByStateProv
- txtOrderedByZipCode
- txtOrderedByCountry
- txtOrderedByPhone
- txtOrderedByFax

Purchase Order

P.O. Number  
P.O. Date

**Ordered By**

Company  
Address  
City  
State/Province Zip/Postal Code  
Country  
Phone Number  
Fax Number  
Contact Name

**Deliver To**

Company  
Address  
City  
State/Province Zip/Postal Code  
Country  
Phone Number  
Fax Number  
Contact Name

Part No.	Description	Quantity	Unit Price	Amount
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00
		0	€0,00	€0,00

B20 (2) (000) Id0019 INS



## Factors to consider:

- Current SAP version
- Preconfigured form availability
- Form complexity
- Resource availability
- Tool 'ease of use'
- Output options needed
  - Short-term
  - Long-term



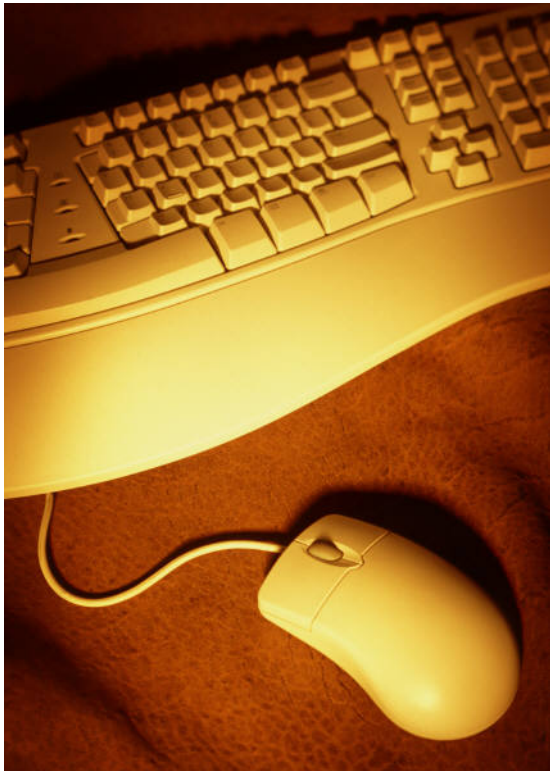


- **Scenario 1: Customer Account Statement**
  - Potentially complex form where only SAPscript offers preconfigured version
  - Consider SAPscript – start with preconfigured form
- **Scenario 2: Invoice**
  - On Web AS 6.40 or higher: Consider Joint Adobe/SAP Solution
  - Otherwise, consider Smart Forms – start with preconfigured form
- **Scenario 3: Personnel Change Request Form**
  - On Web AS 6.40 or higher: Consider Joint Adobe/SAP Solution
  - Otherwise, consider Smart Forms Web form (e.g. in BSP)

- **Path: SAPscript ➡ Smart Forms ➡ Joint Adobe/SAP Solution**
  - Basic SAPscript to Smart Forms conversion tool
  - Semi-automatic wizard from Smart Forms into Adobe/SAP Solution
  - Interface definition (Forms Context) from Smart Forms can be re-used with new Adobe/SAP Solution
- **Factors to Consider:**
  - Typical form lifespan (3 to 8 years)
  - No 'loss-less' conversion
- **The Bottom Line:**
  - Convert only with good reason and support
  - Use structured approach
    - e.g. our 'SAPscript to Smart Forms Conversion Methodology' presented with SAP Labs at 2003 ASUG Annual Conference

*"Our Age of Anxiety is, in great part, the result of trying to do today's jobs with yesterday's tools."*

*- Marshall McLuhan*



- Learn the differences among the various form tools
- A 'hybrid' approach is fine!
- For new forms, use the most advanced tool available which fits your needs and implementation timeframe
- Protect your investment in existing forms by upgrading judiciously

## → Public Web:

Preconfigured Forms: <http://service.sap.com/smartforms> (-> Preconfigured Smart Forms)

SAP Service Marketplace: <http://service.sap.com/adobe>

Adobe/SAP Partnership: <http://www.adobe.com/sap>

MHS Systems Consulting, Inc.: <http://www.mhs-sys.com>

## → Contact Information:

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Mark Smithson, MHS Systems Consulting ([msmithson@mhs-sys.com](mailto:msmithson@mhs-sys.com))

## → Further related Presentations at ASUG

Using Electronic Forms to Streamline HR Business Processes (1902)

Using Adobe Interactive Forms: Part 1 – Business Overview and Usage Scenarios (708A); and 2 – Technical Overview and Demonstration (708B)

Adobe Partner Booth #2443



# Q&A



Thank you for participating.  
Please remember to complete and  
return your evaluation form following  
this session.

Session Code:  
2301

