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Five Winshuttle best practices that changed the culture of Siemens product lifecycle management and manufacturing

Howie Hsu | SIEMENS Infrastructure and Cities Sector

A stylized illustration of a tropical landscape. In the foreground, there are several palm trees of varying heights and orientations, some leaning. They are set against a light blue background that represents the sky. The bottom of the image shows a dark blue silhouette of a hill or ground line. The overall aesthetic is clean and modern, using a limited color palette of blues and oranges.

WINSHUTTLE
USER
GROUP
SAN DIEGO | 2013

Goals:

- Keep you awake
- Have you vote for my Brushy Photos
- Have you take away some nuggets of information



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Agenda

- Siemens at a Glance
- Best Practices
 - Winshuttle Business Case, Deployment, and Sustainability Plan
 - Change Management
 - User Support
 - Script Version Control and Repository
 - Checks and Balances
 - Skip Field Macro
 - Pre-Read, Update, Post-Read Methodology
 - Scalable Scripts and Templates
 - Script types
 - Embedded Scripts
 - Parallel Sessions

Presenter at a Glance

Howie Hsu Siemens Infrastructure and Cities Sector

Current Position:

Strategic Marketing Optimization Leader
NAM Low and Medium Voltage Division

Previous position:

Data Management Manager
Low Voltage and Products Business Unit

Background Experience:

- Product Data Excellence
- Data Migration and Transformation
- Data Governance
- Business Intelligence
- Data Warehousing
- e-Business
- CRM
- SAP



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Siemens at a Glance

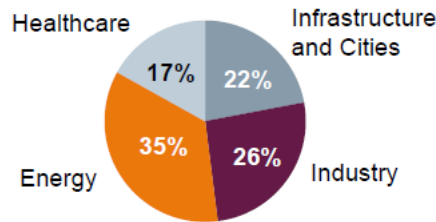
SIEMENS

Our vision –
to provide answers to the great challenges of our time

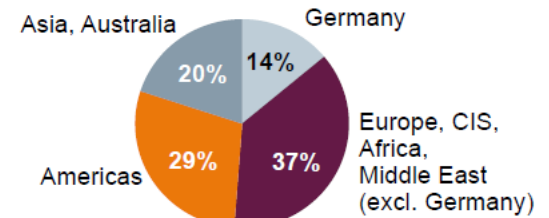
Siemens – the pioneer in

- Energy efficiency
- Industrial productivity
- Affordable and personalized healthcare
- Intelligent infrastructures

Revenue by Sector

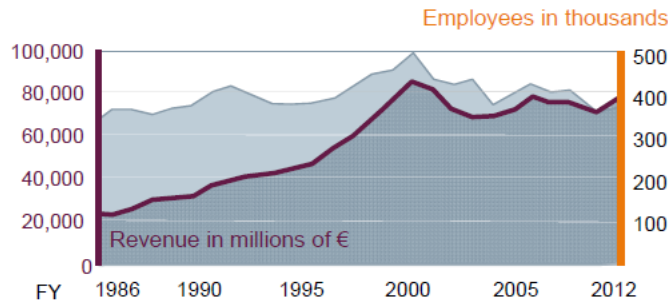


Revenue by Region



Based on customer location

Revenue and employees



As reported in annual reports

Continuing operations –
comparison with previous year

In millions of €	FY 2011	FY 2012
New orders	85,166	76,913
Revenue	73,275	78,296
Income	7,376	5,184
Free cash flow	5,918	4,790
Employees	359,000	370,000

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Siemens at a Glance

The Siemens **Energy Sector** is the world's leading supplier of products, services and solutions for power generation. Its extensive portfolio comprises highly efficient technologies for thermal power plants, renewables, power transmission, and for the extraction, processing and transport of oil and gas.



The Siemens **Industry Sector** is one of the world's leading suppliers of innovative and eco-friendly products and solutions for industrial customers. With our complete range of automation technologies, intelligent software solutions, vast industry expertise and closely integrated services, we're increasing the productivity, efficiency and flexibility of our customers – while at the same time strengthening our own competitiveness.



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Siemens at a Glance

The **Siemens Healthcare Sector** is one of the world's largest providers to the healthcare industry and a leader in imaging systems, laboratory diagnostics, healthcare IT, and hearing aids. We offer customers products and solutions for comprehensive patient care from a single source – from prevention and early diagnosis to therapy and aftercare. By optimizing the clinical procedures associated with the most important medical conditions, we help make healthcare faster, better, and more cost-efficient.



The **Infrastructure & Cities Sector** offers customized, sustainable technologies for metropolitan centers. Its diverse portfolio encompasses integrated mobility solutions, building and security systems, power distribution equipment, smart grid applications, and low- and medium-voltage products.



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SAP Infrastructure for US Industry Sector

- SAP ECC 6.0 (R/3 Deployed 2003)
- Instances: 5
- Modules:
 - Financial Accounting (FI)
 - Controlling (CO)
 - Materials Management (MM)
 - Sales and Distribution (SD)
 - Logistics Execution (LE)
 - Production Planning (PP)
 - Quality Management (QM)
 - Project Systems (PS)

Low Voltage and Products Business Unit

Distribution Systems



Switchboards



Power Panels



Switchgear ¹⁾



Lighting Panels



Busway



Meter centres



Transformers ¹⁾

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Circuit Protection



MCCB



Air circuit breaker



Miniature Circuit Breakers



TVSS



Power Monitoring



Switches / Bus Plugs

Residential



Load Centers



Residential Circuit Breakers



E Car



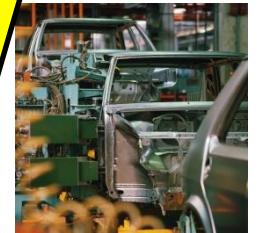
Micro Inverters



Commercial



Infrastructure



Industrial



Residential

SAP Infrastructure – Low Voltage Products BU

- Number of Plants: 10
- Number of Records: over 800K
- Material Types:
 - Raw Materials
 - Semi-finished Products
 - Finished Products
 - Trading Goods Products
 - Configurable Materials
 - Non-valuated Materials
 - Service Materials

Best Practices Topics

- **Winshuttle Business Case, Deployment, and Sustainability Plan**
- Change Management
 - User Support
 - Script Version Control and Repository
- Checks and Balances
 - Skip Field Macro
 - Pre-Read, Update, Post-Read Methodology
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- Parallel Sessions

3 Key Objectives for Winshuttle

“Work Smarter, Not Harder” – Scrooge McDuck

- Risk mitigation
- Ease of use and maintenance
- Agile processes for scalability



Winshuttle Business Case, Deployment, and Sustainability Plan

Timeline of Events

- 2010 Fall – Purchased a TX Shuttle and a Runner License for Pilot Program
- 2010 Fall – Attended WUG2010 in New Orleans for Best Practice Sessions
- 2011 Spring – Winshuttle Pilot Program
- 2011 Summer – Developed a business case to justify investment
- 2011 Fall – Developed deployment and maintenance plan
- 2011 Winter – Deployed Winshuttle



A Tale of 3 Cars

1987 Toyota Cressida



Master Data Maintenance Journey...

2014 Chevrolet Corvette Stingray Z51



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Tale of 3 Cars... A Master Data Maintenance Journey

Characteristics	First Car Experience	Manual Execution
Reliability	Mechanical Opportunities	Prone to User Error
Speed	Faster than walking	Tedious and Slow
Cost	Cheap or Free	Inexpensive
Dependability	Owner's Touch	Individualized
Ease of Use	Simple	Intuitive

1987 Toyota Cressida



Price	Engine
MSRP \$19,660	2.8L 156 hp I6
Transmission Options	Horsepower 156 @ 5200 rpm
Drivetrain RWD	Torque 165 @ 4400 rpm
4-Speed Automatic	Displacement 2800 cc
MPG 16 city 22 highway	Bore X Stroke N/A
5-Speed Manual	Compression Ratio 8.0:1
MPG 17 city 22 highway	Dimensions
Safety	Max Seating 5
Amenities	Gas Tank Size N/A
Power Windows Standard	Front Legroom 41.0 in
Power Door Locks Standard	Back Legroom 35.0 in
Stereo Radio, Cassette Player	Wheelbase 104.0
	Length 187.0 inches
	Height 54.0 inches



Tale of 3 Cars... A Master Data Maintenance Journey

Characteristics	Nascar	Help Desk
Reliability	Consistent Performance	Service Level Agreement
Speed	~ 188 mph	LSMW and BDC
Cost	\$125K - \$150K per race	Costly
Dependability	Fast Left Turns	Not Very Agile
Ease of Use	Highly Trained Driver and Crew	Specialized Skillset



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Tale of 3 Cars... A Master Data Maintenance Journey

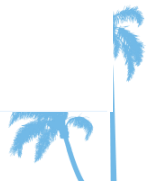
Characteristics	Corvette	Winshuttle
Reliability	Consistent Performance	More thorough validation process
Speed	0-60 mph in < 4 sec	Reduction in cycle time vs Help Desk
Cost	\$51,000	Reduction of Help Desk Cost
Dependability	Everyday and Weekend car	Reduce risk of resource availability
Ease of Use	License to Drive	Leverage existing best practices



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2014 Chevrolet Corvette Stingray Z51

Price	Engine
MSRP \$51,000	6.2L 455 hp V8
Invoice Price \$46,410	Horsepower N/A
	Torque N/A
Transmission Options	Displacement 6200 cc
Drivetrain RWD	Bore X Stroke 4.06 X 3.62
7-Speed Manual	Compression Ratio 11.5:1
MPG 17 city 29 highway	
6-Speed Automatic	
MPG 16 city 28 highway	
Safety	Dimensions
Front Airbags Driver Standard Passenger Standard	Max Seating 2
Side Airbags Front Standard	Gas Tank Size 18.5 gallons
ABS Brakes Standard	Front Legroom 43.0 in
	Back Legroom N/A
	Wheelbase 106.7
	Length 176.9 inches
	Height 48.8 inches



Cycle Time Analysis during Pilot Phase: Help Desk vs Winshuttle

Help Desk

- Fill out Template = 15 min
- Submit Request via Help Desk System = 2 min
- Load Data in SAP E1I = 30 min
- E1I Post-load Data Validation = 6 min
- Load Data in SAP E1P = 30 min
- E1P Post-load Data Validation = 6 min

Total Time = 89 min

Winshuttle

- Fill out Template = 15 min
- Submit Request via Microsoft Outlook = 2 min
- Pre-Data Load Validation = 12 min
- Load Data in SAP E1P = 30 min
- Post-Data Load Validation = 12 min

Total Time = 71min

Time Savings: $89 - 71 =$ **18 min or 20.22%**

Cost Avoidance and Winshuttle Statistics

Fiscal Year	% of total helpdesk budget for master data updates	% Improvement from previous year	% Improvement from 2011	Number of Records Impacted by Winshuttle	Number of Winshuttle Sessions
2011	69.24%			699,754	2,453
2012	16.99%	170%	170%	2,314,018	4,342
2013	9.00%	10%	196%	3,119,570	7,320

Total	6,133,342	14,115
Number of Runners	16	
Number of Script Writers	1	

Ranking	Transaction Code	Description	Records	% of Total
1	MM02	Change Material	2,823,132	56.14%
2	VK11	Create Pricing Condition	1,140,258	22.67%
3	MM01	Create Material	243,894	4.85%
4	CS02	Change Material BOM	156,505	3.11%
5	ME12	Change Purchasing Info Record	139,612	2.78%
6	MM06	Flag Material for Deletion	136,710	2.72%
7	MM03	Display Material	82,441	1.64%
8	ME1M	Info Records per Material	62,178	1.24%
9	CA02	Change Routing	44,968	0.89%
10	CL24N	Class Assignments	41,948	0.83%

Best Practices Topics

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User Support

- Runner licenses are issued on a case by case basis
- On-boarding training is required for all new users
- FAQ on SharePoint site
- All templates have a link to the training document and FAQ
- Monthly Runners user group meeting for the first 2 years of deployment
- Quarterly Script Writer user group meetings

Change Management: Metadata on Each Template

- Template Purpose
- Script and Template Name
- Version Control
- FAQ Links

	A	B	C	D	E
1	PURPOSE	This script is used for updating all the MRP fields(1,2,3,4)on the material master via t-code MM02.			
2	SCRIPT NAME	MM02_All_MRP_Views_Data_Pre-Read.TxR	<	WindShuttle/	>
3	SCRIPT NAME	MM02_All_MRP_Views_Data_Update.TxR	<	/WindShuttle/	>
4	TEMPLATE NAME	MM02_All_MRP_Views_Data_Read_And_Update.xlsm	<	See Sheet1	>
5	WINSHUTTLE ID/VERSION	73	003		
6	MODIFIED DATE	3/11/2013			
7	Winshuttle Help				
8	STEP BY STEP INSTRUCTIONS	Refer to link on right	<	xlviewer.aspx	>
9	TIPS AND TRICKS	Refer to link on right	<	/xlviewer.aspx	>
10					

Ready | Instructions | Sheet1 | 100%

Change Management: Using SharePoint as a Central Repository

- Sharepoint is used as a repository to store all scripts and templates
- Sharepoint search is capable of searching the file name and file content
- Shortcut links to the templates ensure the latest template is always used

Search Results: accounting views - Windows Internet Explorer

SIEMENS → Global Intranet Portal

Welcome Hsu, Howie SEA

My Links | Site Map | Contact Us | Help

SharePoint Services North America

Home | Users | Developer

All Sites | People

accounting views Advanced Search

Results by Relevance | View by Modified Date | Alert Me | RSS

Result 1-1 of 1. Your search took 0.14 seconds.

MM01_Create_Accounting_And_Costing_Views.xlsx
FnUSRM1-SISEL_x000D_x000D_%-FnCreate Views Selected_x000D_x000D_%+Fv_x000D_x000D_%+FLO ... FnUSRM1-SISEL_x000D_x000D_%-FnCreate Views Selected_x000D_x000D_%+Fv_x000D_x000D_%+FLO
https://workspace.automation.sea.siemens.com/division/AMD/Division/Programs/WindShuttle/Material Master Module/Templates/MM01_Create_Accounting_And_Costing_Views.xlsx - 25KB - Bortey, Joe - 8/14/2012

(D:) DATA

Network

- MM01_Create_Sales_Org_Views
- MM01_Create_Warehouse_Views
- MM01_Material_Create_All_Views
- MM01_Material_Plant_Data_Extensions



Best Practices Topics

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- **Checks and Balances**
 - **Skip Field Macro**
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Checks and Balances: Skip Field Macro

- If fields are left blank, it will update the field in SAP with a blank
- Skip field indicator “\” is used to prevent users from blanking out existing values in SAP
- User would only update the fields that they need and leave all other fields blank
- Then user would click on the skip field button to insert \ into all the blank fields

MM02_Read_And_Update_Basic Data 1_Data.xlsm [Read-Only]

	A	B	C	D	E	F	G
1		Click here to insert a skip field indicator(\) in all bank cells before executing transaction					
2	Log Winshuttle TRANSACTION 10.3 Update 1 MM01_Create_Accounting_And_Costing_VIEWS.TXR 8/14/2012 8:13:30 AM Mode: Non-Batch without Controls E11-100, Z002W24V	Material number RMMG1-MATNR	Material description(Old) MAKT-MAKTX	Material description(New) MAKT-MAKTX	Material description(Current) MAKT-MAKTX	Material group(Old) MARA-MATKL	Material group(New) MARA-MATKL
3		ABC		Breaker 1 Pole			
4		DEF		Breaker 2 Pole			EEK
5		GHI		Breaker 2 Pole			HGT
6		JKL		Enclosed Switch			BAT
7		MNO		Enclosed Switch			ART

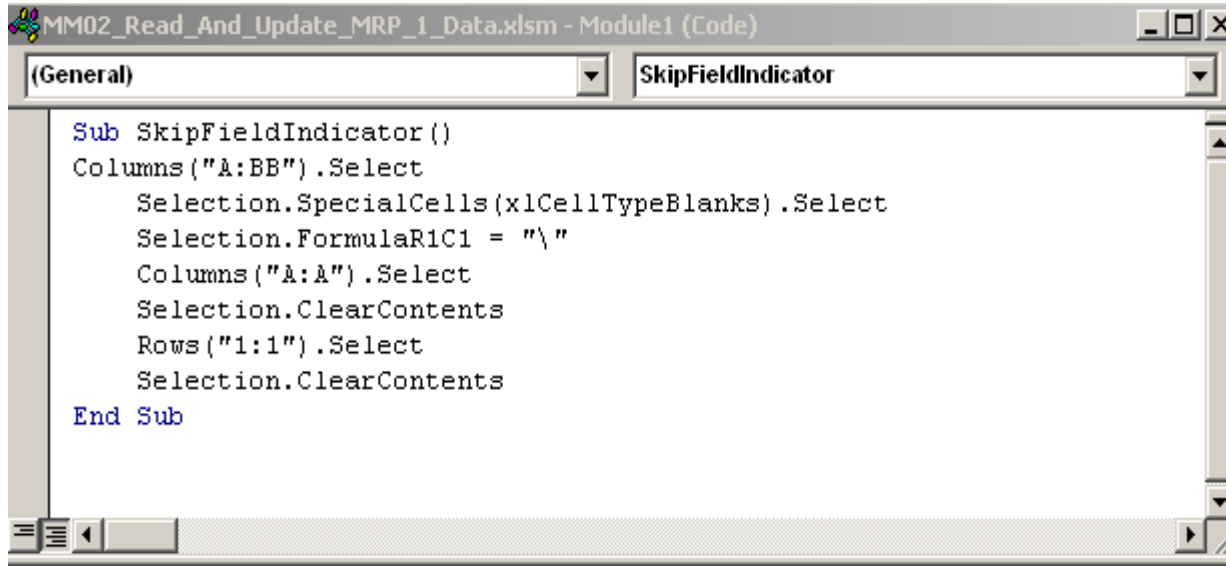
MM02_Read_And_Update_Basic Data 1_Data.xlsm [Read-Only]

	A	B	C	D	E	F	G
1		Click here to insert a skip field indicator(\) in all bank cells before executing transaction					
2		Material number RMMG1-MATNR	Material description(Old) MAKT-MAKTX	Material description(New) MAKT-MAKTX	Material description(Current) MAKT-MAKTX	Material group(Old) MARA-MATKL	Material group(New) MARA-MATKL
3		ABC	\	Breaker 1 Pole	\	\	\
4		DEF	\	Breaker 2 Pole	\	\	EEK
5		GHI	\	Breaker 2 Pole	\	\	HGT
6		JKL	\	Enclosed Switch	\	\	BAT
7		MNO	\	Enclosed Switch	\	\	ART



Checks and Balances:

Skip Field Macro



```
MM02_Read_And_Update_MRP_1_Data.xlsm - Module1 (Code)
SkipFieldIndicator

Sub SkipFieldIndicator()
Columns("A:BB").Select
    Selection.SpecialCells(xlCellTypeBlanks).Select
    Selection.FormulaR1C1 = ""
Columns("A:A").Select
    Selection.ClearContents
Rows("1:1").Select
    Selection.ClearContents
End Sub
```

- This is the macro used in all the templates.
- The first statement “Columns(“A:BB”).Select” indicates the columns used in the template. In this example the columns are A through BB. This is the only line that changes based on the columns used in the template.

Checks and Balance:

Pre-Read, Update, Post-Read Methodology

- Required in almost all update transaction templates
- Pre-Read script takes a snapshot of the current values (gray column)
- Update script updates records with the new values (yellow column)
- Post-Read script takes another snapshot of the values after the updates (orange column)

The screenshot shows a Winshuttle transaction template spreadsheet with columns A through S. A tooltip in cell C1 reads: "Click here to insert a skip field indicator(\) in all bank cells before executing transaction". The spreadsheet has three columns highlighted: B (Material number RMMG1-MATNR) in green, C (Sales organization RMMG1-VKORG) in green, and D (Distribution Channel RMMG1-VTWE) in green. Columns Q (Distribution-chain-specific material status(Old) MVKE-VMSTA) and R (Distribution-chain-specific material status(New) MVKE-VMSTA) are highlighted in yellow. Column S (Distribution-chain-specific material status(Current) MVKE-VMSTA) is highlighted in orange. A dialog box titled "Winshuttle TRANSACTION" is open on the right, showing a list of scripts: "MMO2_Sales_Org_1_Data_Pre-Read", "MMO2_Sales_Org_1_Data_Update", and "MMO2_Sales_Org_1_Data_Post-Read". The "Run Rows" section is set to "As Specified Below" with "Start Row" at 3 and "End Row" at 0. The "Run Options" section is set to "Run Now".

	A	B	C	D	Q	R	S
1			Click here to insert a skip field indicator(\) in all bank cells before executing transaction				
2		Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWE	Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
3		1D1N010ST	E100	11			
4		1D1Y025ESTP1QST	E100	11			
5		1D1Y025QST	E100	11			
6		1D1Y037QST	E100	11			
7		1D1Y050ESQST	E100	11			
8		1D1Y050ESTP1QST	E100	11			
9		1D1Y050QST	E100	11			
10		1D1Y075ESTP1QST	E100	11			
11		1D1Y100QST	E100	11			
12		3F1Y030ESTP1QST	E100	11			
13		3F1Y030QST	E100	11			
14		3F1Y045ESTP1QST	E100	11			
15		3F1Y075ESTP1QST	E100	11			

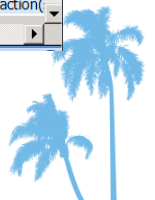
Checks and Balance:

Pre-Read, Update, Post-Read Methodology

Step 1: Execute the Pre-Read script to have a backup of the current data for reference or reversals

The screenshot displays a Winshuttle transaction window titled "Winshuttle TRANSACTION". The main area is a data table with columns A through S. Column A contains a yellow box with text: "Log Winshuttle TRANSACTION 10.4 Update 1 Embedded TRANSACTION script (MM02_Sales_Org_1_Data_Pre-Read.TxR)". Column B is highlighted in green and contains headers: "Material number RMMG1-MATNR", "Sales organization RMMG1-VKORG", and "Distribution Channel RMMG1-VTWE". Column C contains a grey box: "Click here to insert a skip field indicator(\) in all bank cells before executing transaction". Column Q is highlighted in blue and contains headers: "Distribution-chain-specific material status MVKE-VMSTA" and "Distribution-chain-specific material status(Old) MVKE-VMSTA". Column R is highlighted in yellow and contains header: "Distribution-chain-specific material status(New) MVKE-VMSTA". Column S is highlighted in orange and contains header: "Distribution-chain-specific material status(Current) MVKE-VMSTA". The table rows show "No changes made" for various material numbers. A red box highlights the first three columns (A, B, C) and the first two columns (Q, R). A red arrow points from the "MM02_Sales_Org_1_Data_Pre-Read" script name in the "Published TRANSACTION script:" field of the control panel to the "Distribution-chain-specific material status(New) MVKE-VMSTA" column header. The control panel includes "Run Settings" (Run Rows: As Specified Below, Start Row: 3, End Row: 0), "Run Reason:", "Run Options: Run Now", and buttons for "Run" and "Stop".

A	B	C	D	Q	R	S
Log Winshuttle TRANSACTION 10.4 Update 1 Embedded TRANSACTION script (MM02_Sales_Org_1_Data_Pre-Read.TxR)		Click here to insert a skip field indicator(\) in all bank cells before executing transaction		Distribution-chain-specific material status MVKE-VMSTA		
	Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWE	Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
1						
2						
3	No changes made	D1N010ST	E100	11	X2	
4	No changes made	D1Y025ESTP1QST	E100	11	X2	
5	No changes made	D1Y025QST	E100	11	X2	
6	No changes made	D1Y037QST	E100	11	X2	
7	No changes made	D1Y050ESQST	E100	11	X2	
8	No changes made	D1Y050ESTP1QST	E100	11	X2	
9	No changes made	D1Y050QST	E100	11	X2	
10	No changes made	D1Y075ESTP1QST	E100	11	X2	
11	No changes made	D1Y100QST	E100	11	X2	
12	No changes made	F1Y030ESTP1QST	E100	11	X2	
13	No changes made	F1Y030QST	E100	11	X2	
14	No changes made	F1Y045ESTP1QST	E100	11	X2	



Checks and Balance: Pre-Read, Update, Post-Read Methodology

Step 2: Populate the yellow column with the new values

	A	B	C	D	Q	R	S
1	Log Winshuttle TRANSACTION 10.4 Update 1 Embedded TRANSACTION script (MM02_Sales_Org_1_Data_Pre-Read.TxR)		Click here to insert a skip field indicator(\) in all bank cells before executing transaction		Distribution-chain-specific material status MVKE-VMSTA		
2		Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWEГ	Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
3	No changes made	1D1N010ST	E100	11	X2	X5	
4	No changes made	1D1Y025ESTP1QST	E100	11	X2	YC	
5	No changes made	1D1Y025QST	E100	11	X2		
6	No changes made	1D1Y037QST	E100	11	X2		
7	No changes made	1D1Y050ESQST	E100	11	X2		
8	No changes made	1D1Y050ESTP1QST	E100	11	X2	X3	
9	No changes made	1D1Y050QST	E100	11	X2	X3	
10	No changes made	1D1Y075ESTP1QST	E100	11	X2	YM	
11	No changes made	1D1Y100QST	E100	11	X2	07	
12	No changes made	3F1Y030ESTP1QST	E100	11	X2		
13	No changes made	3F1Y030QST	E100	11	X2		
14	No changes made	3F1Y045ESTP1QST	E100	11	X2	X4	

Winshuttle TRANSACTION

Select
Published TRANSACTION script:
MM02_Sales_Org_1_Data_Pre-Read

Title: Sales Org 1 Data Update

Run Settings
Run Rows: As Specified Below
Start Row: 3 No of Rows:
End Row: 0 Log Column:
Run Reason:
Run Options: Run Now

Tools
Write Headers Look Up Val
Embedded Macros

inished, time taken 00:00:58 to run 32 transaction(



Checks and Balance:

Pre-Read, Update, Post-Read Methodology

Step 3: Click the Skip Field macro button to fill in all the blank fields with \

	A	B	C	D	Q	R	S
1			Click here to insert a skip field indicator(\) in all blank cells before executing transaction				
2		Material number RMMG1-MATNR			Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
3		1D1N010ST	E100	11	X2	X5	\
4		1D1Y025ESTP1QST	E100	11	X2	YC	\
5		1D1Y025QST	E100	11	X2	\	\
6		1D1Y037QST	E100	11	X2	\	\
7		1D1Y050ESQST	E100	11	X2	\	\
8		1D1Y050ESTP1QST	E100	11	X2	X3	\
9		1D1Y050QST	E100	11	X2	X3	\
10		1D1Y075ESTP1QST	E100	11	X2	YM	\
11		1D1Y100QST	E100	11	X2	07	\
12		3F1Y030ESTP1QST	E100	11	X2	\	\
13		3F1Y030QST	E100	11	X2	\	\
14		3F1Y045ESTP1QST	E100	11	X2	X4	\
15		3F1Y075ESTP1QST	E100	11	X2	\	\
16		3F1Y075QST	E100	11	X2	\	\
17		3F1Y112QST	E100	11	X2	\	\
18		3F1Y112ST	E100	11	X2	\	\
19		3F1Y150QST	E100	11	X2	\	\

Winshuttle TRANSACTION

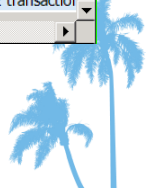
Select
Published TRANSACTION script:
MM02_Sales_Org_1_Data_Update
Title: Sales Org 1 Data Update

Run Settings
Run Rows: As Specified Below
Start Row: 3 No of Rows:
End Row: 0 Log Column:

Run Reason:
Run Options: Run Now

Tools
Write Headers Look Up V
Embedded Macros

Finished, time taken 00:00:58 to run 32 transaction



Checks and Balance: Pre-Read, Update, Post-Read Methodology

Step 4: Execute the Update script

	A	B	C	D	Q	R	S
1	Log Winshuttle TRANSACTION 10.4 Update 1 Embedded TRANSACTION script (MM02_Sales_Org_1_Data_Update.TxR) 10/17/2013 11:25:49 AM Mode: Batch E11-100, z0007ip		Click here to insert a skip field indicator(\) in all bank cells before executing transaction				
2		Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWEG	Distribution-chain- specific material status(Old) MVKE-VMSTA	Distribution-chain- specific material status(New) MVKE-VMSTA	Distribution-chain- specific material status(Current) MVKE-VMSTA
3	Material 1D1N010ST changed	1D1N010ST	E100	11	X2	X5	\
4	Material 1D1Y025ESTP1QST changed	1D1Y025ESTP1QST	E100	11	X2	YC	\
5	No changes made	1D1Y025QST	E100	11	X2	\	\
6	No changes made	1D1Y037QST	E100	11	X2	\	\
7	No changes made	1D1Y050ESQST	E100	11	X2	\	\
8	Material 1D1Y050ESTP1QST changed	1D1Y050ESTP1QST	E100	11	X2	X3	\
9	Material 1D1Y050QST changed	1D1Y050QST	E100	11	X2	X3	\
10	Material 1D1Y075ESTP1QST changed	1D1Y075ESTP1QST	E100	11	X2	YM	\
11	Material 1D1Y100QST changed	1D1Y100QST	E100	11	X2	07	\
12	No changes made	3F1Y030ESTP1QST	E100	11	X2	\	\
13	No changes made	3F1Y030QST	E100	11	X2	\	\
14	Material 3F1Y045ESTP1QST changed	3F1Y045ESTP1QST	E100	11	X2	X4	\
15	No changes made	3F1Y075ESTP1QST	E100	11	X2	\	\
16	No changes made	3F1Y075QST	E100	11	X2	\	\

Winshuttle TRANSACTION

Select
Published TRANSACTION script:
MM02_Sales_Org_1_Data_Update

Title: Sales Org 1 Data Update

Run Settings
Run Rows: As Specified Below
Start Row: 3 No of Rows:
End Row: 0 Log Column:

Run Reason:
Run Options: Run Now

Tools
Write Headers Look Up V
Embedded Macros

Finished, time taken 00:01:15 to run 32 transaction
SAP Disconnected



Checks and Balance:

Pre-Read, Update, Post-Read Methodology

Step 5: Execute the Post-Read script to pull down what is in SAP to compare it back to the values in the gray and yellow columns

A	B	C	D	Q	R	S
Log Winshuttle TRANSACTION 10.4 Update 1 Embedded TRANSACTION script (MM02_Sales_Org_1_Data_Post-Read,TxR) 10/17/2013 11:29:52 AM Mode: Non-Batch without Controls E11-100, z0007flp			Click here to insert a skip field indicator(\) in all bank cells before executing transaction			Distribution-chain-specific material status MVKE-VMSTA
	Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWEG	Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
1						
2						
3	No changes made	1D1N010ST	E100	X2	X5	X5
4	No changes made	1D1Y025ESTP1QST	E100	X2	YC	YC
5	No changes made	1D1Y025QST	E100	X2	\	X2
6	No changes made	1D1Y037QST	E100	X2	\	X2
7	No changes made	1D1Y050ESQST	E100	X2	\	X2
8	No changes made	1D1Y050ESTP1QST	E100	X2	X3	X3
9	No changes made	1D1Y050QST	E100	X2	X3	X3
10	No changes made	1D1Y075ESTP1QST	E100	X2	YM	YM
11	No changes made	1D1Y100QST	E100	X2	07	07
12	No changes made	3F1Y030ESTP1QST	E100	X2	\	X2
13	No changes made	3F1Y030QST	E100	X2	\	X2
14	No changes made	3F1Y045ESTP1QST	E100	X2	X4	X4
15	No changes made	3F1Y075ESTP1QST	E100	X2	\	X2
16	No changes made	3F1Y075QST	E100	X2	\	X2

Winshuttle TRANSACTION

Select
Published TRANSACTION script:
MM02_Sales_Org_1_Data_Post-Read
Title: Sales Org 1 Data Update

Run Settings
Run Rows: As Specified Below
Start Row: 3 No of Rows:
End Row: 0 Log Column:
Run Reason:
Run Options: Run Now

Tools
Write Headers Look Up V
Embedded Macros

Finished, time taken 00:01:00 to run 32 transaction
SAP Disconnected

Best Practices Topics

- Winshuttle Business Case, Deployment, and Sustainability Plan
- Change Management
 - User Support
 - Script Version Control and Repository
- Checks and Balances
 - Skip Field Macro
 - Pre-Read, Update, Post-Read Methodology
- **Scalable Scripts and Templates**
 - **Script types**
 - **Embedded Scripts**
- Parallel Sessions

Scalable Scripts and Templates:

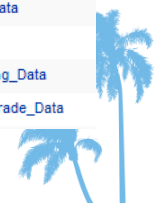
Types of Scripts: Logical and Process

Characteristics of Logical Scripts:

- Common Views
 - Accounting and Costing
 - MRP 1 and 2
 - Basic 1 and 2
- Single field scripts created only by exception

- MM01_Create_Warehouse_Views
- MM01_Material_Create_All_Views
- MM01_Material_Plant_Data_Extensions
- MM01_Plant_Storage_Location_Extensions
- MM01_Sales_Org_Extensions
- MM01_Services_Material_Extension
- MM01_Storage_Type_Extension
- MM01_Warehouse_Extensions
- MM02_Add_Alt_UoM
- MM02_Add_New_EAN_Category
- MM02_All_MRP_Views_Data_Read_And_Update
- MM02_APU_Data_Read_And_Update
- MM02_Create_UPC_Code
- MM02_Item_Category_Changes
- MM02_Lab_Office_Update
- MM02_Link_Material_To_DIR
- MM02_MM_Updates
- MM02_MRP_Controller_And_Purchasing_Grp
- MM02_MRP1_and_2_Data_Update
- MM02_MRP2_Scheduling_Data_Update
- MM02_Other_UoM_Read_And_Update
- MM02_Planned_Price_Updates
- MM02_PLM_Saleable_Read_And_Update
- MM02_Read_And_Update_Accounting_Data
- MM02_Read_And_Update_Base_UoM_Dimensions
- MM02_Read_And_Update_Basic_Data_1_Data
- MM02_Read_And_Update_Basic_Data_2_Data
- MM02_Read_And_Update_Costing_Data
- MM02_Read_And_Update_ECC_Data
- MM02_Read_And_Update_Forecasting_Data
- MM02_Read_And_Update_Foreign_Trade_Data

Click here to insert a skip field indicator(!) in all bank cells before executing transaction											
Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWEG	Material statistics group(Old) MVKE-VERSG	Material statistics group(New) MVKE-VERSG	Material statistics group(Current) MVKE-VERSG	Account assignment group for this material(Old) MVKE-KTGRM	Account assignment group for this material(New) MVKE-KTGRM	Account assignment group for this material(Current) MVKE-KTGRM	Item category group from material master(Old) MVKE-MTPOS	Item category group from material master(New) MVKE-MTPOS	Item category group from material master(Current) MVKE-MTPOS



Scalable Scripts and Templates:

Types of Scripts: Logical and Process

Characteristics of Process Scripts:

- Creations/updates required for a specific process
 - Creating a material
 - Making a material saleable
 - Making a material obsolete
 - Executing Quality Holds
- Usually has multiple tabs in the template

Type	Name
📄	CS02_PLM_BOM_Header_Killer
📄	DM_PLM_Phase_Out_Process
📄	ME12_Killer_PIR
📄	MM02_PLM_Phase-Out_Read_And_Update
📄	MM02_PLM_Plant_Data_Post-Read
📄	MM02_PLM_Plant_Data_Post-Read_v1
📄	MM02_PLM_Plant_Data_Pre-Read
📄	MM02_PLM_Plant_Data_Pre-Read_v1
📄	MM02_PLM_Plant_Data_Update
📄	MM02_PLM_Plant_Data_Update_v1
📄	MM02_PLM_Read_Long_Text
📄	MM02_PLM_Saleable_Updates
📄	MM02_PLM_Sales_Data_Post-Read
📄	MM02_PLM_Sales_Data_Pre-Read
📄	MM02_PLM_Sales_Data_Update
📄	MM02_PLM_Update_Long_Text
📄	MM06_PLM_Material_Killer_At_Plant_Level

	A	B	C	D	E	F	G
1		Click here to insert a skip field indicator(\) in all bank cells before executing transaction					
2		Material Number RMMG1-MATNR	Sales Organization RMMG1-VKORG	Distribution Channel RMMG1-VTWE	Global Marketing Applications(Old) MARA-ISIEIE_MM_GAMF	Global Marketing Applications(New) MARA-ISIEIE_MM_GAMF	Global Marketing Applications(Current) MARA-ISIEIE_MM_GAMF
3							PL Regi Status MA/ISIEIE_LM
4							
5							
6							
7							
8							
9							

	A	B	C	D	E	F	G	H	I
1		Click here to insert a skip field indicator(\) in all bank cells before executing transaction							
2		Material Number RMMG1-MATNR	Plant RMMG1-WERKS	MRP Type(Old) MARC-DISMM	MRP Type(New) MARC-DISMM	MRP Type(Current) MARC-DISMM	Reorder Point(Old) MARC-MINBE	Reorder Point(New) MARC-MINBE	Reorder Point(Current) MARC-MINBE
3									
4									
5									
6									
7									
8									
9									
10									



Scalable Scripts and Templates:

Editing Existing Scripts Without Recording New Ones

Example of adding the “Purchasing Group” field:

- Copy line 27 and paste it in row 28

• Change the description in the 4th column (Main Screens) to “Purchasing Group”
 • Change the technical field name in the 5th column to “MARC-EKGRP”.
 • Map line 28 to the corresponding column in the template

23	<input checked="" type="checkbox"/>	SAPLMGMM-4000	Main screens with 6 subscreens (tab page)						
24	<input checked="" type="checkbox"/>		OK Code for this screen	BDC_OKCODE				=BU	
25	<input checked="" type="checkbox"/>		MRP Type	MARC-DISMM				E	
26	<input checked="" type="checkbox"/>		MRP Controller (Materials Planner)	MARC-DISPO				H	
27	<input checked="" type="checkbox"/>		Lot size (materials planning)	MARC-DISLS				K	
28	<input checked="" type="checkbox"/>		Purchasing Group	MARC-EKGRP				N	

C:\Documents and Settings\bortjx\Desktop\MM02_MRP1_Lo...

	E	F	G	H	I	J	K	L	M	N	O
1	MRP Type MARC-DISMM (New)	MRP Type MARC-DISMM (Current)	MRP Controller MARC-DISPO (Old)	MRP Controller MARC-DISPO (New)	MRP Controller MARC-DISPO (Current)	Lot size MARC-DISLS (Old)	Lot size MARC-DISLS (New)	Lot size MARC-DISLS (Current)	Purchasing Group MARC-EKGRP (Old)	Purchasing Group MARC-EKGRP (New)	Purchasing Group MARC-EKGRP (Current)



Scalable Scripts and Templates: Embedded Scripts

Embedded scripts allow users not to have to worry about downloading and associating the correct script to be used for that template or tab

The screenshot shows an Excel spreadsheet with the following data:

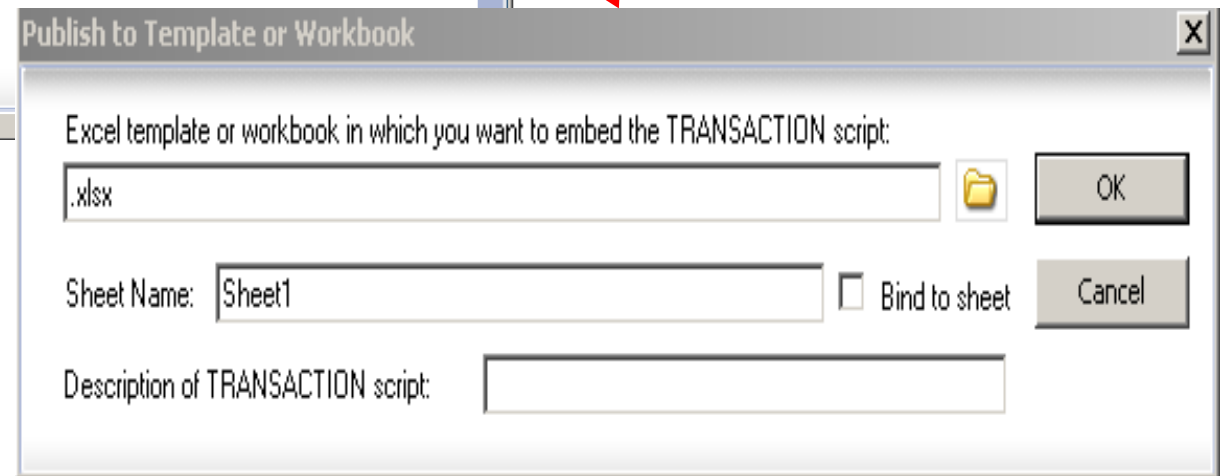
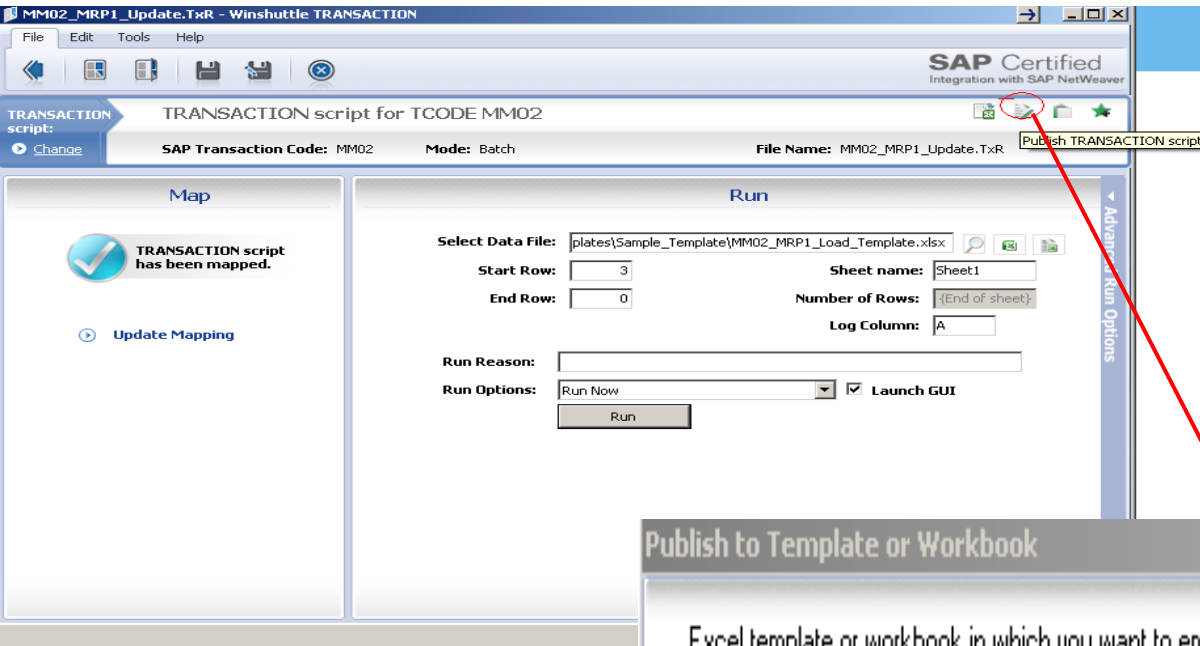
	A	B	C	D	Q	R	S
1							
2		Material number RMMG1-MATNR	Sales organization RMMG1-VKORG	Distribution Channel RMMG1-VTWEQ	Distribution-chain-specific material status(Old) MVKE-VMSTA	Distribution-chain-specific material status(New) MVKE-VMSTA	Distribution-chain-specific material status(Current) MVKE-VMSTA
3		1D1N010ST	E100	11			
4		1D1Y025ESTP1QST	E100	11			
5		1D1Y025QST	E100	11			
6		1D1Y037QST	E100	11			
7		1D1Y050ESQST	E100	11			
8		1D1Y050ESTP1QST	E100	11			
9		1D1Y050QST	E100	11			
10		1D1Y075ESTP1QST	E100	11			
11		1D1Y100QST	E100	11			
12		3F1Y030ESTP1QST	E100	11			
13		3F1Y030QST	E100	11			
14		3F1Y045ESTP1QST	E100	11			
15		3F1Y075ESTP1QST	E100	11			

The Winshuttle TRANSACTION window is open, showing the following details:

- Published TRANSACTION script: **MMO2_Sales_Org_1_Data_Pre-Read**
- Run Rows: As Specified Below
- Start Row: 3
- No of Rows: 12
- End Row: 15
- Log Column: A
- Run Reason: (empty)
- Run Options: Run Now
- Buttons: Run, Stop
- Tools: Write Headers, Look Up Value, Embedded Macros



Scalable Scripts and Templates: Embedded Scripts



Scalable Scripts and Templates: Embedded Scripts – Bounding scripts to tabs

Log Winshuttle TRANSACTION 10.5
QH_XDChainStatus_Released.TxR
/16/2013 5:41:32 PM
Mode: Batch
IP-100, Z002W24V

Pull current Cross Distribution Chain Status from SQ01 ZE_SEA_ADHOC/MD_MARA1
Be sure to set Flag Material for Deletion = **BLANK**
Field Name = **ST** and **Valid From** (after the **ST** column)
Set NewXDChainStatus = **20** and NewXDChainStatusValidFrom = **today's date in your SAP default date format(ex. MM/DD/YYYY,YY)**
Execute Winshuttle script "**QH_XDChainStatus_Hold**" to complete action step 5 above(**be sure to set start row = 13**)
Set the "**Hold Status**" in column 'B' to "**On Hold**" after completing action step 6 above
Review the change log in column 'A' to ensure all records have been changed. If there are errors, fix them and re-run the script. If no errors
After notification from Quality Admin, reverse the cross distribution chain status and date to its original value in all sales orgs only after all in
Execute Winshuttle script "**QH_XDChainStatus_Released**" to complete action step 9 above(**be sure to set start row = 13**)
Set the "**Hold Status**" in column 'B' to "**Released**" after completing action step 10 above

Log Column	Hold Status	Material	OldXDChainStatus	OldXDChainStatu
Material 3VL41402PE330AA0 changed	Released	3VL41402PE330AA0		
Material US2.CDT3R060 changed	Released	US2.CDT3R060		
Material US2.CDT3R100 changed	Released	US2.CDT3R100		
Material US2.CDT3R150 changed	Released	US2.CDT3R150		
Material US2.CDT3T060 changed	Released	US2.CDT3T060		
Material US2.CDT3T100 changed	Released	US2.CDT3T100		
Material US2.CDT3T150 changed	Released	US2.CDT3T150		
Material US2.CDT3V060 changed	Released	US2.CDT3V060		
Material US2.CDT3V100 changed	Released	US2.CDT3V100		
Material US2.CDT3V150 changed	Released	US2.CDT3V150		
Material US2.CDT3W060 changed	Released	US2.CDT3W060		
Material US2.CDT3W100 changed	Released	US2.CDT3W100		
Material US2.CDT3W150 changed	Released	US2.CDT3W150		
Material US2.CFT3R100 changed	Released	US2.CFT3R100		
Material US2.CFT3R150 changed	Released	US2.CFT3R150		
Material US2.CFT3R250 changed	Released	US2.CFT3R250		
Material US2.CFT3T100 changed	Released	US2.CFT3T100		
Material US2.CFT3T150 changed	Released	US2.CFT3T150		
Material US2.CFT3T250 changed	Released	US2.CFT3T250		
Material US2.CFT3V100 changed	Released	US2.CFT3V100		
Material US2.CFT3V150 changed	Released	US2.CFT3V150		
Material US2.CFT3V250 changed	Released	US2.CFT3V250		

Winshuttle Script Editor Panel:

Select
Published TRANSACTION script:
QH_XDChainStatus_Hold
QH_XDChainStatus_Released
QH_Plant_Spec_Status_Hold
QH_Plant_Spec_Status_Released
Run Rows: |As Specified Below

Start Row: 13 No of Rows: [End of sheet]
End Row: 0 Log Column: A


Run Reason: Run Options: Run Now

Buttons: Run, Stop

Tools: Write Headers, Look Up Values, Embedded Macros

- Enter excel template location
- Change the "Sheet Name" to the name of the sheet on the template
- Check the "Bind to Sheet" checkbox and enter the description of the transaction script

Publish to Template or Workbook

Excel template or workbook in which you want to embed the TRANSACTION script:
 

Sheet Name:

Bind to sheet

Description of TRANSACTION script:

Buttons: OK, Cancel



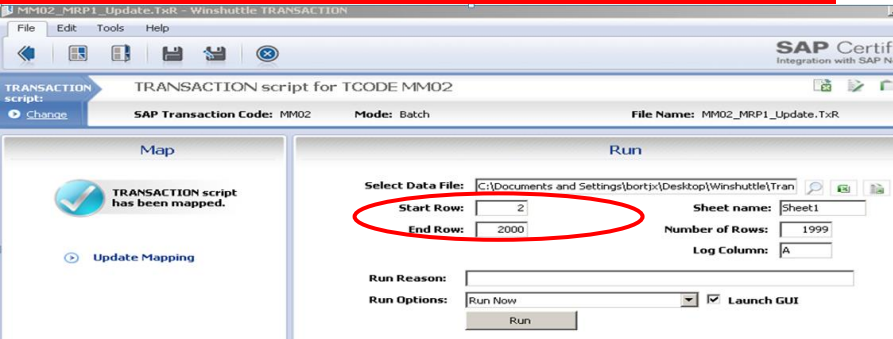
Best Practices Topics

- Winshuttle Business Case, Deployment, and Sustainability Plan
- Change Management
 - User Support
 - Script Version Control and Repository
- Checks and Balances
 - Skip Field Macro
 - Pre-Read, Update, Post-Read Methodology
- Scalable Scripts and Templates
 - Script types
 - Embedded Scripts
- **Parallel Sessions**

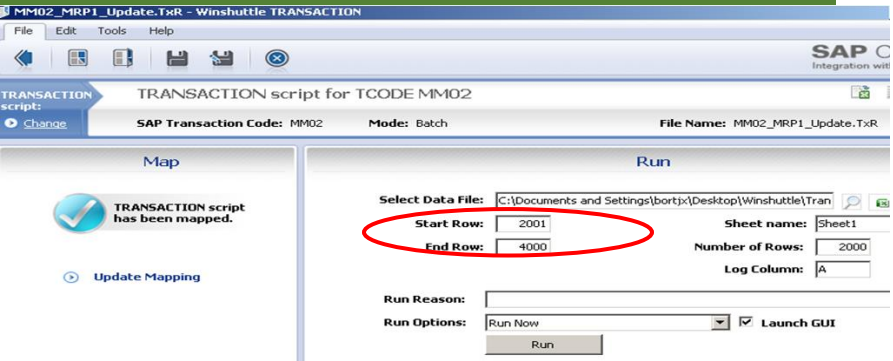
Parallel Sessions:

Example showing 3 sessions to update 6,000 records:

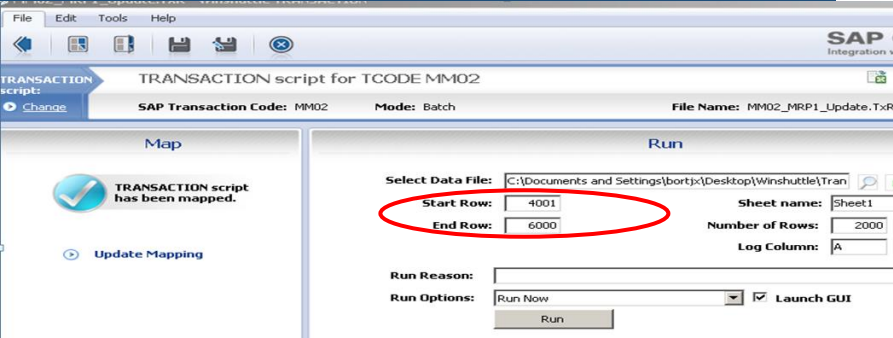
Session 1 – Start Row = 2. End Row = 2000



Session 2 – Start Row = 2001. End Row = 4000



Session 3 – Start Row = 4001. End Row = 6000

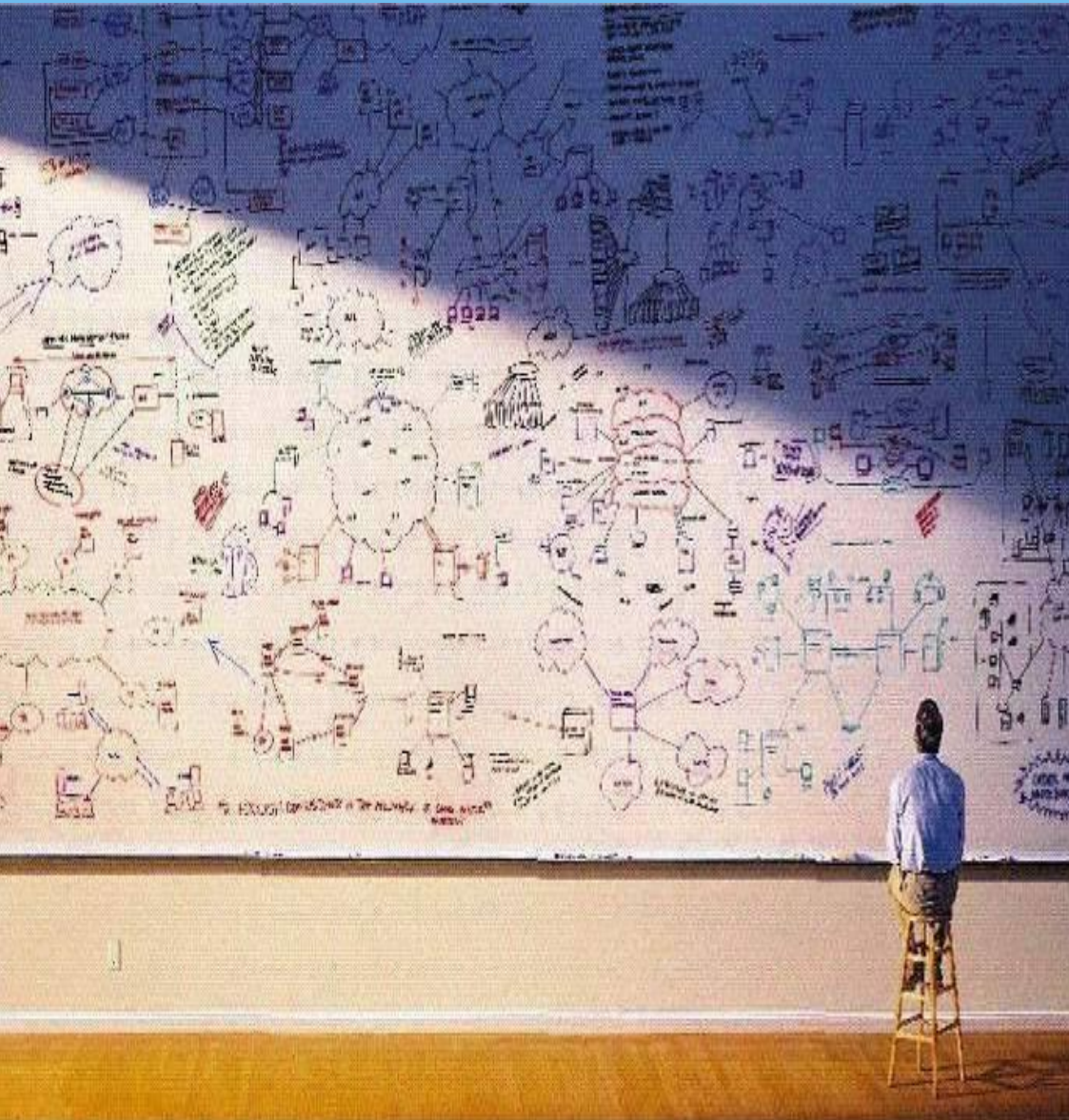


	A	B	C	D	E	F	G
1	Log Winshuttle TRANSACTION 10.2 MM02_PLM_Saleable_Updates.TxR 3/9/2012 2:30:17 PM Mode: Batch EIP-100, 2000CHTF	Click here to insert a skip field indicator(\\) in all blank cells before executing transaction					
2		Material Number RMMG1-MATNR	Sales Organization RMMG1-VKORG	Distribution Channel RMMG1-VTWE	Global Marketing Applications MARA-ISIEJE_MM_GAM F	PLM Regional Status MARA-ISIEJE_MM_PLM_R	PLM Regional Status Date MARA-ISIEJE_MM_PLMR_D
3		61224B1100CU	E100	11	\\	PM410	20120308
4		61224L1125	E100	11	\\	PM410	20120308
5		61224L1125CU	E100	11	\\	PM410	20120308
6		61224L3125CU	E100	11	\\	PM410	20120308
7		61624B1100	E100	11	\\	PM410	20120308
8		61624B1100CU	E100	11	\\	PM410	20120308
9		61624L1125	E100	11	\\	PM410	20120308
10		61624L1125CP	E100	11	\\	PM410	20120308
11		62020B1100CP	E100	11	\\	PM410	20120308
12		62020B1100CU	E100	11	\\	PM410	20120308
13		62020L1125	E100	11	\\	PM410	20120308
14		62020L1125CU	E100	11	\\	PM410	20120308
15		62030B1150	E100	11	\\	PM410	20120308
16		62030L1150	E100	11	\\	PM410	20120308
17		62030L1150CU	E100	11	\\	PM410	20120308
18		62040B1200CU	E100	11	\\	PM410	20120308
19		62040L1200	E100	11	\\	PM410	20120308
20		62040L1200CU	E100	11	\\	PM410	20120308
21		62442L3150CU	E100	11	\\	PM410	20120308
22		63030B1100CU	E100	11	\\	PM410	20120308
23		63030B1150	E100	11	\\	PM410	20120308
24		63030B1150CU	E100	11	\\	PM410	20120308
25		63030L1200CU	E100	11	\\	PM410	20120308
26		63040B1200	E100	11	\\	PM410	20120308
27		63040B1200CP	E100	11	\\	PM410	20120308
28		63040L1125CU	E100	11	\\	PM410	20120308
29		63040L1200	E100	11	\\	PM410	20120308
30		63040L1200CP	E100	11	\\	PM410	20120308

Summary

- Winshuttle Business Case, Deployment, and Sustainability Plan
- Change Management
 - User Support
 - Script Version Control and Repository
- Checks and Balances
 - Skip Field Macro
 - Pre-Read, Update, Post-Read Methodology
- Scalable Scripts and Templates
 - Script types
 - Embedded Scripts
- Parallel Sessions

Questions???



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Siemens Infrastructure and Cities Sector
NAM Low and Medium Voltage Division



WINSHUTTLE
USER
GROUP