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**GROUP** **Atlanta 2012**

October 16-17



# Data Quality for Material Master Data – A Process Automation Approach

Lance W. Yoder  
Rockwell Automation  
October 16, 2012



# Discussion Overview

- Who is Rockwell Automation
- The Good, but Mostly Bad and Mostly Ugly – How we started extending materials
- The Better and Onward to the Best (hopefully)
- WinShuttle Governance at Rockwell



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# Who is Rockwell Automation?

The world's largest company dedicated to industrial automation and information solutions, our mission is to provide control and information solutions designed to give customers a competitive advantage.



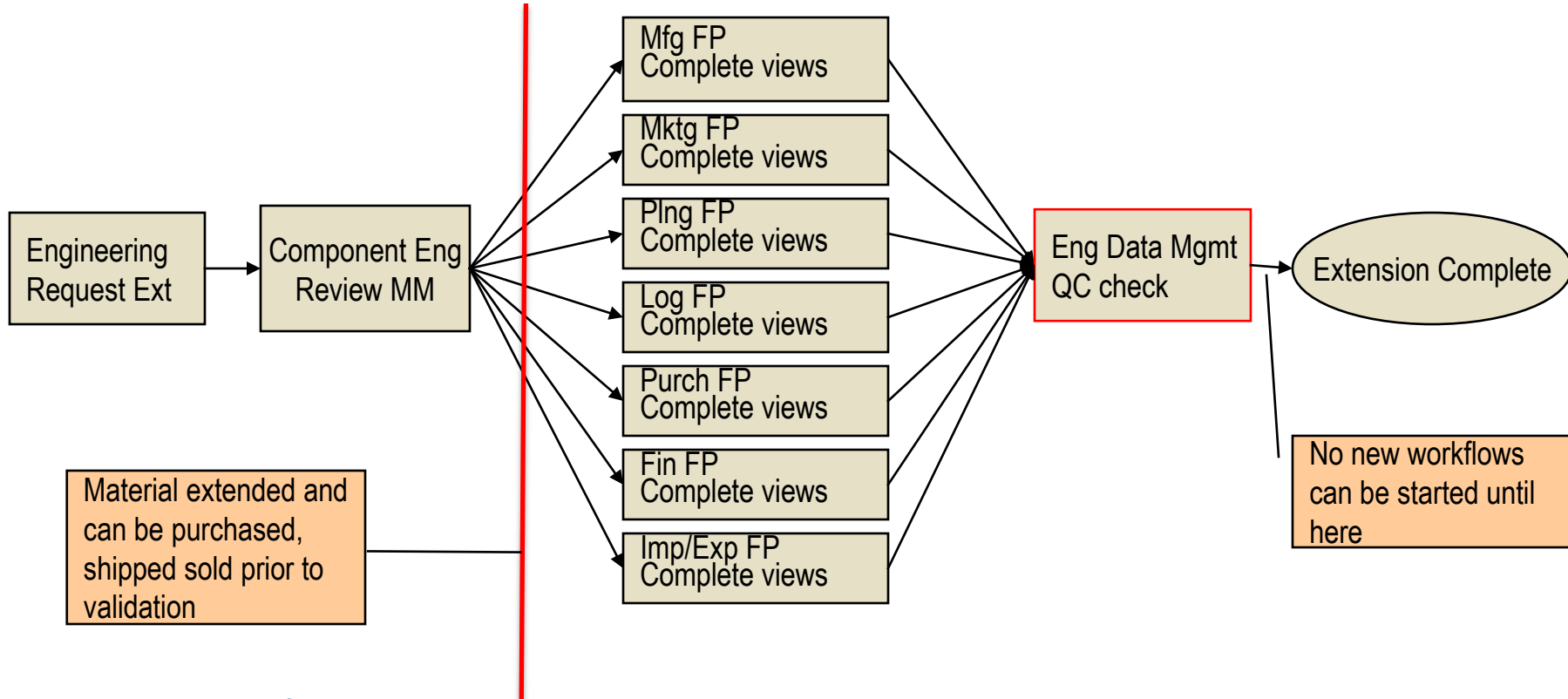
Headquartered in Milwaukee - 21,000 employees  
In 5<sup>th</sup> year of SAP deployment  
43 plants on SAP, and growing



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# The Old Extension Process



# MM Extension – The Beginning

- The Good
  - Traceable within SAP Workflow
  - Worked OK with only a few plants /sales orgs online
- The Mostly Bad
  - Couldn't extend materials in process elsewhere
  - People involved unnecessarily or not when needed



# MM Extension – The Beginning

- The Really Ugly
  - You could fill out the request form...or not!
  - Unvalidated data entered directly in SAP
  - Data Quality check– too little, too late
  - 21 days to complete!!!
  - Did not meet long term SAP design needs



Old Request Form



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# The New and Improved Process

- The Better
  - Request form regulates required fields “Turbo Tax” style
  - As many materials to as many plants as needed at any time
  - Business rules applied to build total data set
  - Material only extended if data is GOOD!



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# The New and Improved Process

- The Better
  - Notifies the right people at the right time
  - Many people removed from the process (they don't enter the data but they own the rule!)
  - Some materials don't require extra handling -> same day turn around on these materials.
- Could be better
  - “Workflow” is done via email and not easily traced
  - Based on daily snapshot of SAP data

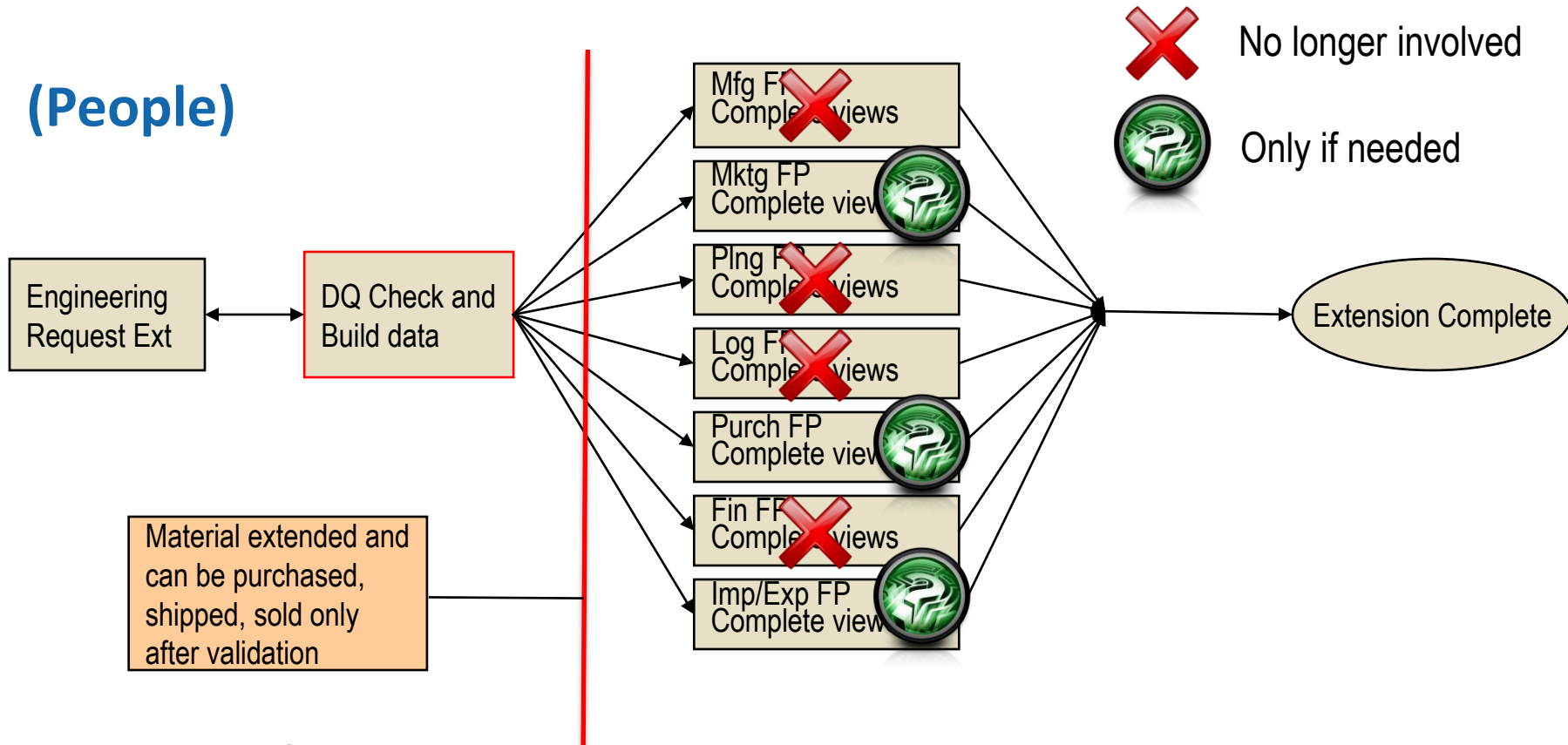


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# The New and Improved Process

(People)



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# The New and Improved Process

A	B	C	D	G
<b>MM Manufacturing Information Form (MIF) for Mfg Plant Extensions</b>				
Prepared By:	Lance			
Project Name:	WUG2012			
Email Address:	lwyoder	@ra.rockwell.com		
Notes:				
Date:				
Maintain drop downs	Cell Color Coding	Yellow - Required	Green - Default	
		White - Optional		

Status	Status Reason	Material Number To Extend	Plant to Extend Material To
Check Passed		PN-12345	1020 - Twinsburg

**Check data and Submit**

**Reset after Paste**

**Clear Form**

Name	Date modified
Lance_16Oct12 124934_V30.xls	10/16/2012 12:49 ...
Jose Betancourt_16Oct12 112121_V30.xls	10/16/2012 12:21 ...
Joel Cohen_16Oct12 121730_V30.xls	10/16/2012 12:17 ...
G eorge Gourley_16Oct12 115753_V30.xls	10/16/2012 11:58 ...
Rwhitting_16Oct12 163630_V30.xls	10/16/2012 11:37 ...
Gerry Lahti_16Oct12 100409_V30.xls	10/16/2012 11:04 ...
Rwhitting_16Oct12 154544_V30.xls	10/16/2012 10:46 ...
Paul A. Duhacek_16Oct12 091445_V30.xls	10/16/2012 10:15 ...
Yulia Robertson_16Oct12 144026_V30.xls	10/16/2012 9:40 AM
Jennifer Dsouza_16Oct12 082803_V30.xls	10/16/2012 9:28 AM
jsun_16Oct12 151508_V30.xls	10/16/2012 9:15 AM
Christina O'Connor_16Oct12 145833_V30.xls	10/16/2012 8:58 AM



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# The New and Improved Process

1

2 **Plant Extension**

3 **Step 1 - Create Extension Request File and send to server**

4 Click this button to combine all extension requests into a single file and create the CSV file needed to load data to Oracle

5 **Execute Step 1**

6 **Step 2 - Run WinShuttle Plant Extension program using resulting "ws\_plant\_data\_to\_sap\_output\_[date].xls"**

7 **Step 3 - Create SAP Load Results File for Oracle and send to server**

8 **Execute Step 3**

9 **Step 4 - Send email to people from "ws\_plant\_notifications\_output\_[date].xls"**

10 **Step 5 - Create DIR of type ZMM and attach "ws\_plant\_nlif\_output\_[date].xls"**

11

12

13

Name

- Lance\_16Oct12 124934\_V30.xls
- Jose Betancourt\_16Oct12 112121\_V30.xls
- Joel Cohen\_16Oct12 121730\_V30.xls
- George Gourley\_16Oct12 115753\_V30.xls
- Rwhitting\_16Oct12 163630\_V30.xls
- Gerry Lahti\_16Oct12 100409\_V30.xls
- Rwhitting\_16Oct12 154544\_V30.xls
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- Yulia Robertson\_16Oct12 144026\_V30.xls
- Jennifer Dsouza\_16Oct12 082803\_V30.xls
- jsun\_16Oct12 151508\_V30.xls
- Christina O'Connor\_16Oct12 145833\_V30.xls

**ORACLE**

Name

- 16Oct2012
- 2012
- Archive
- testfiles
- WS\_PLANT\_DATA\_TO\_SAP\_OUTPUT\_16-10-2012\_08-04-46.xls**



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# The New and Improved Process

A	B	C	D	E	F	G	H	I
<b>Log Winshuttle RUNNER for TRANSACTION 10.2</b> <b>Material Master Plant Extension.TxR</b> 16-Oct-2012 10:06:24 AM Mode: Non-Batch without Controls PRO-400, mtlpatri								
	OBJECT ID	SEQ NO	MATNR	WERKS	LGNUM	LGTYP	REF_MATNR	
	19419	5	PN-178512	1020			COPY ZSFG 1020 BUY	LX1
	19542	1	000000000000376446	1050			COPY ZRAW 1050 BUY	ES1
	19543	26	PN-C05382	1050			COPY ZSFG 1050 BUY	PR1
	19538	25	PN-176185	1150			COPY ZRAW 1150 BUY	IB3I
	19537	12	PN-176194	1150			COPY ZFG 1150 BUY	IB3I
	19537	11	PN-176675	1150			COPY ZSFG 1150 BUY	IB3I
	19541	2	PN-179184	1180	118	303	COPY ZREP 1180 BUY	PL1
	19541	4	PN-179186	1180	118	303	COPY ZREP	
	19541	6	PN-179196	1180	118	303	COPY ZREP	
	19541	3	PN-179184	1200	120	601	COPY ZREP	
	19541	5	PN-179186	1200	120	601	COPY ZREP	



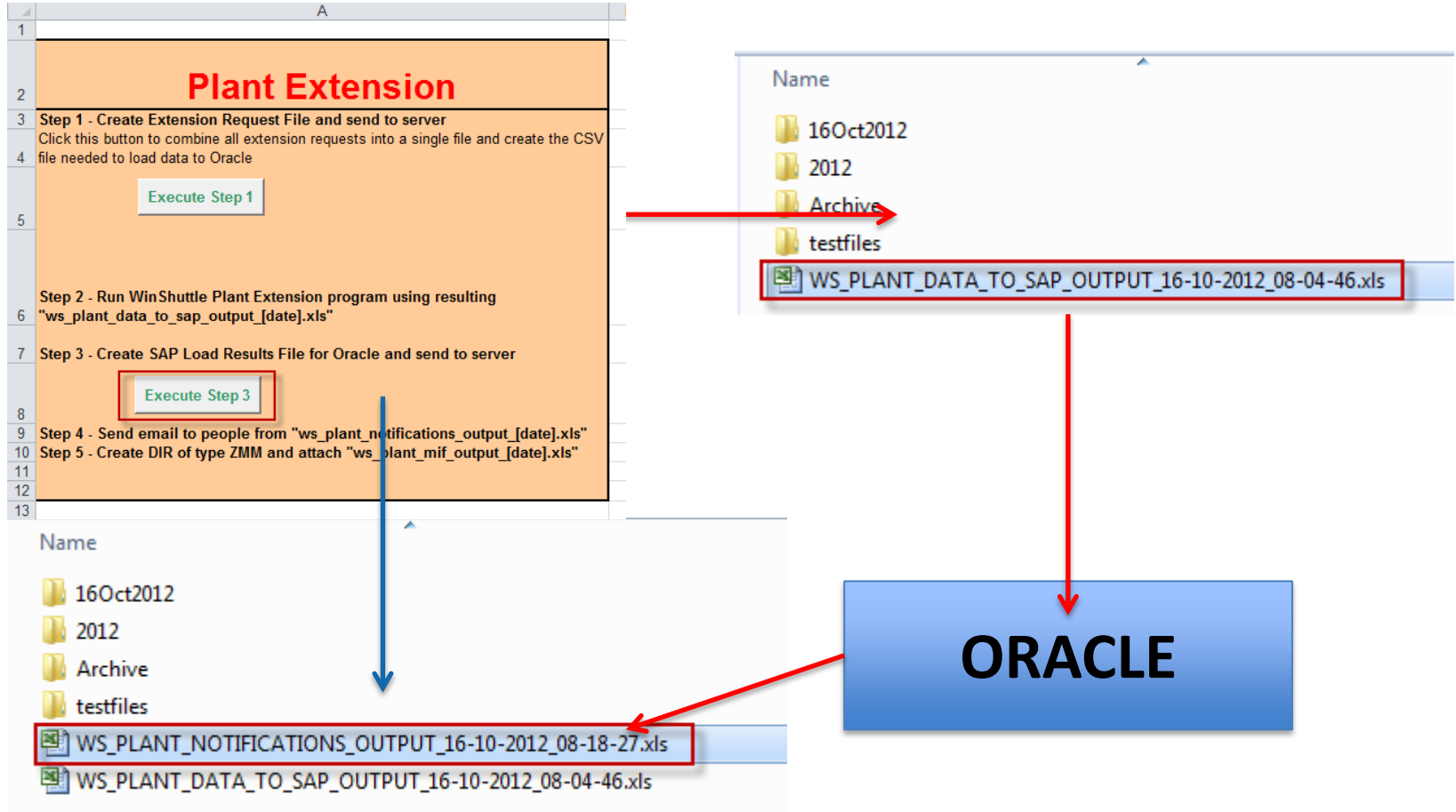
A	B	C	D	E	F	G	H	I
<b>Log Winshuttle RUNNER for TRANSACTION 10.2</b> <b>Material Master Plant Extension.TxR</b> 16-Oct-2012 10:06:24 AM Mode: Non-Batch without Controls PRO-400, mtlpatri								
	OBJECT ID	SEQ NO	MATNR	WERKS	LGNUM	LGTYP	REF_MATNR	PF
Material PN-178512 created	19419	5	PN-178512	1020			COPY ZSFG 1020 BUY	LX1U
Material 376446 created	19542	1	000000000000376446	1050			COPY ZRAW 1050 BUY	ES1U
Material PN-C05382 created	19543	26	PN-C05382	1050			COPY ZSFG 1050 BUY	PR1U
Material PN-176185 created	19538	25	PN-176185	1150			COPY ZRAW 1150 BUY	IB3L
Material PN-176194 created	19537	12	PN-176194	1150			COPY ZFG 1150 BUY	IB3L
Material PN-176675 created	19537	11	PN-176675	1150			COPY ZSFG 1150 BUY	IB3L
Material PN-179184 created	19541	2	PN-179184	1180	118	303	COPY ZREP 1180 BUY	PL1U
Material PN-179186 created	19541	4	PN-179186	1180	118	303	COPY ZREP 1180 BUY	PL1U
Material PN-179196 created	19541	6	PN-179196	1180	118	303	COPY ZREP 1180 BUY	PL1U
Material PN-179184 created	19541	3	PN-179184	1200	120	601	COPY ZREP 1200 BUY	PL2C
Material PN-179186 created	19541	5	PN-179186	1200	120	601	COPY ZREP 1200 BUY	PL2C
Material PN-179196 created	19541	7	PN-179196	1200	120	601	COPY ZREP 1200 BUY	PL2C
Material PN-C134663 created	19541	8	PN-C134663	1200	120	601	COPY ZREP 1200 BUY	PL2C
Material PN-C83902 created	19541	9	PN-C83902	1200	120	601	COPY ZREP 1200 BUY	PL2C



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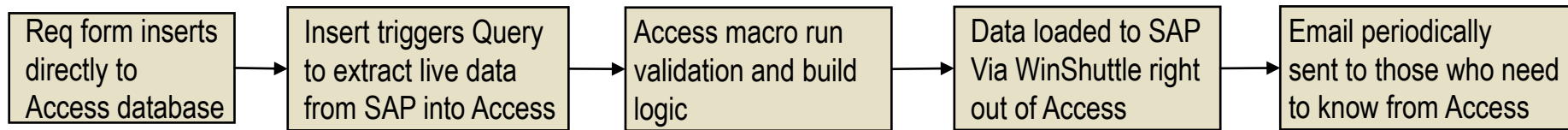
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# The New and Improved Process



# Next Steps -> The Newer and More Improved Process

## (Autonomous Process)



- No batch job schedulers, single system
- Uses live data from SAP
- Response to requestor is immediate (not batched)
- Process data can still be queried



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# WinShuttle Governance at RA

- WinShuttle Governance Council
  - Reviews requests for new scripts
  - Reviews requests for new licenses
  - Maintains user policies in Central
  - Business rules reviewed twice a year



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# WinShuttle Central

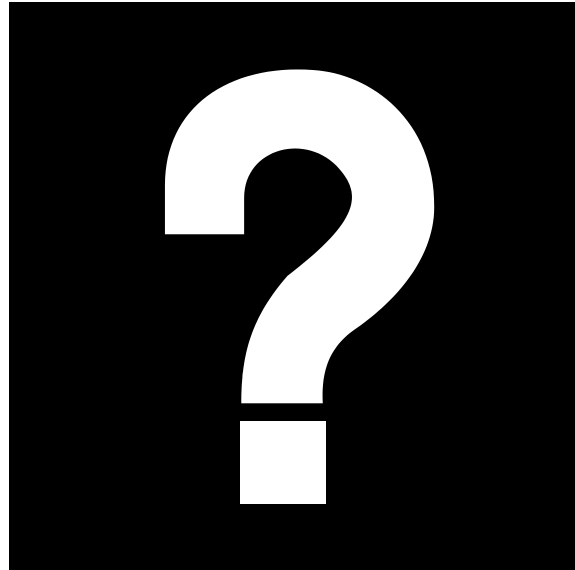
- Key to governance of toolset
- Provides consistency
  - There is only 1 script for updating a particular field. No rogue scripts.
  - All scripts are centrally located reducing duplicate efforts
  - Provides separation of duties for SOx issues



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# Q&A and Open Discussion



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