

*SPK and Associates* 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

#### Automatic Processing of Content on Solidworks Workgroup PDM Server

### Enable Microsoft Message Queuing (MSMQ)

Microsoft Message Queuing is a proprietary component of all current Windows systems, but is not installed by default. It's intended to store "objects" and ensure that they are delivered to other servers; it functions similarly to a mail queue in Linux. In our situation, however, we'll be using the MSMQ to receive transactions from the SolidWorks Workgroup PDM service.

There's a good write-up on MSDN with detailed instructions on installing this. Briefly, though, you'll want to log in to the Workgroup PDM server and use the Add Features Wizard to enable both the Message Queuing Serverand the Message Queuing Triggers. For our purposes, Directory Service Integration and HTTP Support are not required.





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# Configure SolidWorks Workgroup PDM to use MSMQ

Next, we need to enable Triggers inside of SolidWorks Workgroup PDM. Launch the VaultAdmin program from the Start Menu and login as an Administrator. Find the tab labeled "Triggers" and *allow notifications*. The Hostname should be set to "localhost" since we've enabled MSMQ directly on the PDMWorks server. In this example, I'm configuring the system to only notify on document check-in.

Vault Settings Pro	Users and Groups	Search   Sta	Revision Scheme	Revision Table	Projects Triggers	Lifecycle
🔽 Allow notifi	cations					
⊢ Hostname –						
localhost		Browse				
Notifications	\$					
🗖 Bump	revision	1	Modify project			
🗖 Chang	je document status	1	Detailed modify pr	oject		
🔽 Check	in	1	Move document			
Create	project	1	Open document			
🗖 Delete	e document	1	Release ownershi	P		
🗖 Delete	project	1	Rename documer	ıt		
🗖 Modify	custom property	1	Take ownership			
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## Configure MSMQ to receive SolidWorks Workgroup PDM

1. Create the Private Queue:

- Open the Computer Management panel. Open Start -> Run, enter "compmgmt.msc" and click OK.
- Expand the "Services and Applications" tree and branches until you reach "Private Queues". Right-click here to create a New ->





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3.	Name the new queue "pdmworks" it must be exactly "pdmworks" for this to work.



4.

Set the permissions on the queue – don't forget this step! Right-click on the "pdmworks" queue and open the *Properties* panel. I granted Full Control to the System account (ComputerName\$):

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File Action View Help		-1
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Computer Management (Local) System Tools Storage Services and Applications Mame Queue messages Journal messages Triggers Triggers	General Security Group or user names:	orks
Writ Control  Writ Control  Outgoing Queues  Private Queues  Qu View Qu View Qu View Control  System Control  C	Add       Remove         Permissions for commpdmeng01\$       Allow       Deny         Full Control       Image: Control and Permissions       Image: Control and Permissions         Delete       Image: Control and Permissions       Image: Control and Permissions         For special permissions or advanced settings, click       Advanced         Advanced.       Image: Control and Permissions	
Opens the properties dialog box for the current selection.	OK Cancel Apply	



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3. The next window that comes up asks about Rules – go ahead and click "Finish" without adding anything to the *Attached Rules* panel, for now.





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### Configure Rules (Actions) for the MSMQ

To perform actions, such as sending an email, we need to create a *Rule* and attach it to the *SWPDM Trigger*. This is where we can be creative with our solutions, calling programs to automatically generate PDF files, upload our source files into Agile PLM, or meet any of the many other needs to give our Design Engineers to more Design Time and less button-clicking.

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Computer Management (Local)  System Tools  Storage  Services and Applications  Routing and Remote Acce Services WMI Control  KMSsage Queuing  Cutyoing Queues  Private Queues  Private Queues  Queue messa  Durnal messa	Rule Name	Rule Description           pdmworks_rule1 Properties           General         Rule Condition           Specify a COM component or program to be in           COM component invocation           C Invoke COM component Component ProgID:           Method name:		Actions Rules	Þ
System Queues  Triggers  Triggers  Rules		Standalone executable invocation	Message body (as string) Message body (as string)	59	Add Remove Up Down
		OK		ОК	Cancel

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