# EvaluateTaggedADRs

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## Summary

There are SCCM Automatic Deployment Rules ( ADR ) that must be executed on the Wednesday night after the second Tuesday of the Month. The built in scheduling options for ADRs in SCCM cannot handle the complex logic to determine the day after the second Tuesday of a month.

A PowerShell script has been created to evaluate all of the ADRs within SCCM that have a \*SCHED-<Code>+[OffSet]\* Tag in their description. These date codes and offset values will be used in the script to determine when it is the appropriate time to execute the ADR. This script will be run from a Scheduled Task that executes every 15 minutes.

\*SCHED-M-TU2\*                  Monthly, 2nd Tuesday at 12AM,    Default if no offset is used is 00:00 / 12:00AM

\*SCHED-M-TU2+00:00\*      Monthly, 2nd Tuesday at 12AM,    Represents same execution time as above

\*SCHED-M-TU2+24:00\*      Monthly, Patch Wednesday 12AM   Example

\*SCHED-M-TU2+45:00\*      Monthly, Patch Wednesday 9PM   Example

\*SCHED-M-WE3+00:00\*     Monthly, 3rd Wednesday 12AM Example

We need to schedule the ADRs to run on a specific number of hours or days after Microsoft synchronizes software updates on the 2nd Tuesday of the month. Since the 2nd Wednesday or 2nd Thursday not necessarily follow the 2nd Tuesday, all of the schedule we need to execute on needs to be based off of Patch Tuesday

**Intended Tagging for Existing ADRs**

|  |  |  |
| --- | --- | --- |
| **TAG to Add** | **ADR Name To Be Tagged** |  |
| **\*SCHED-M-TU2+40:00\*** | Updates – Standard Windows Server Updates – Previous Years | Monthly, Patch Wednesday 4PM |
| **\*SCHED-M-TU2+41:00\*** | Updates – Standard Windows Server Updates – Current Year | Monthly, Patch Wednesday 5PM |
| **\*SCHED-M-TU2+44:00\*** | Updates – Standard Windows Server Updates – Manal | Monthly, Patch Wednesday 8PM |
| **\*SCHED-M-TU2+46:00\*** | Updates – Standard Windows Server Updates – Required | Monthly, Patch Wednesday 10PM |
| **\*SCHED-M-TU2+47:00\*** | Updates – Standard Windows Workstation Security Updates – Previous Years | Monthly, Patch Wednesday 11PM |
| **\*SCHED-M-TU2+47:45\*** | Updates – Standard Windows Workstation Security Updates – Current Year | Monthly, Patch Wednesday 11:45PM |

## Business Case

The decision to automate the monthly security update releases using SCCM Automatic Deployment Rules came from the LEAN project. The complexity of determining the correct time to automatically execute the SCCM ADRs required the use of custom code in MS PowerShell.

## Systems Impacted

* SCCM 2012 PROD
* LEAN Project – Server Patching Initiative

## Service Impact Assessment

* What is the business impact?
  + Required for the LEAN project
  + Will initiate the monthly replication of SCCM Software updates to SCCM Distribution Points in each regions NGDC
* Where is the business/end users located?
  + LEAN project is global
* Where is the location of activity (where the CI's are located)?
  + SCCM Terminal Server RESSWCMSTMP02 located in the AMER NGDC
* What is the scheduling and length of the actual outage/performance degradation?
  + No Outage is required
  + No performance degradation is expected
* Is the appropriate communications planned before a change will be implemented (Business/Accenture/etc.)?
  + Communicated to the SCCM team during testing and implementation
  + Status updates will be announced at the LEAN project meeting
* Is the appropriate communications planned after a change is completed
  + Communications for using the software update releases created by this automated process will be done through the LEAN project
* Does this change have a GxP impact and if yes is Quality aware of the change?
  + No GxP impact
* What are the dependencies for this change?
  + Functioning SCCM environment
  + SCCM Service Account with adequate permissions
  + SCCM Configured with specific ADRs to be executed by name
* Can the change lead to possible collisions?
  + This change will not impact other changes
* Does the change have transversal impact?
  + This change has no transversal impact
* Has the change been successfully tested in a DEV/Test environment
  + This change procedure has been peer reviewed and executed successfully in the SCCM PREPROD environment

## Test Plan

Reference the test plan document located here

[GIS-IM\_CM2012\_**EvaluateTaggedADRs-TestCase**.doc](http://wssamer.sanofi.com/ws/AutomationCenterProvTools/Documents/Change%20Requests/_ARCHIVE/EvaluateTaggedADRs/GIS-IM_CM2012_EvaluateTaggedADRs_Test_Case.doc)

## Communication Plan

Communicate to the SCCM team both pre and post change

Communicate to the LEAN project that the change was implemented

## Detailed Implementation (Installation) Plan

1. On the Terminal server, create the script path and copy the script files
2. Execution log files are located in C:\Temp\EvaluateTaggedADRs folder on the SCCM Terminal server
3. Create and enable the Scheduled Task ( See Appendix A. )
   1. Execute the schedule task manually
   2. The task should run successfully and log shows it did not find any ADRs with SCHED tags yet
4. Create 2 test ADRs in SCCM and add SCHED tags to their description so that they will run in the next 20 and 40 minutes respectively
5. Wait 15+ minutes for the scheduled task to run automatically
   1. Verify the log shows that 2 ADRs were identified but it is not time to execute either of them yet
6. Wait 15+ minutes for the scheduled task to run automatically
   1. Verify the log shows that 2 ADRs were identified with 1 requiring execution and 1 whose time is not ready to execute
   2. Verify that the ADR which was scheduled to run at 20 minutes was executed
   3. Verify that the ADR which was scheduled to run at 40 minutes did not execute
7. Wait 15+ minutes for the scheduled task to run automatically
   1. Verify the log shows that 2 ADRs were identified with 1 already executed and 1 requiring execution
   2. Verify that the ADR which was scheduled to run at 20 minutes was already executed with nothing to do this run
   3. Verify that the ADR which was scheduled to run at 40 minutes was executed
8. Wait 15+ minutes for the scheduled task to run automatically
   1. Verify the log shows that 2 ADRs were identified with both already executed for this month
   2. Verify that the ADR which was scheduled to run at 20 minutes was already executed with nothing to do this run
   3. Verify that the ADR which was scheduled to run at 40 minutes was already executed with nothing to do this run
9. Remove the \*SCHED tags and wait 15 minutes
   1. Verify the log shows that when no ADR is tagged with \*SCHED\* then no execution evaluation isperformed
10. Save the log file as evidence for this CRQ
11. Add SCHED tags for the following ADRs
12. Take a screen shot of all the ADRs in SCCM with SCHED tags and save as evidence for this CRQ

|  |  |  |
| --- | --- | --- |
| **TAG to Add** | **ADR Name To Be Tagged** |  |
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| **\*SCHED-M-TU2+47:00\*** | Updates – Standard Windows Workstation Security Updates – Previous Years | Monthly, Patch Wednesday 11PM |
| **\*SCHED-M-TU2+47:45\*** | Updates – Standard Windows Workstation Security Updates – Current Year | Monthly, Patch Wednesday 11:45PM |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Tagged Description to Add | **ADR Name To Be Tagged** |  |
| \*SCHED-M-TU2+40:00\* Monthly, Patch Wednesday 4PM | Updates – Standard Windows Server Updates – Previous Years |  |
| \*SCHED-M-TU2+41:00\* Monthly, Patch Wednesday 5PM | Updates – Standard Windows Server Updates – Current Year |  |
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| \*SCHED-M-TU2+47:00\* Monthly, Patch Wednesday 11PM | Updates – Standard Windows Workstation Security Updates – Previous Years |  |
| \*SCHED-M-TU2+47:45\* Monthly, Patch Wednesday 11:45PM | Updates – Standard Windows Workstation Security Updates – Current Year |  |

## Post Implementation Test Plan

N/A

## Back Out Plan

Disable the scheduled task or remove the \*SCHED tags from the ADRs

## Appendix A.

**Scheduled Task**

The Scheduled Task and associated PowerShell script will be executed on the SCCM Terminal Server RESSWCMSTMP02 for the all SCCM environments. The Scheduled task is named “EvaluateTaggedADRs-<Environment>” and has the following properties configured from the table below

Action

|  |  |  |
| --- | --- | --- |
| Environment | Task Name | Powershell parameters |
| DEV Pre2Prod | EvaluateTaggedADRs-DEV | "D:\PowerShell\_Tasks\EvaluateTaggedADRs\EvaluateTaggedADRs.PS1" -SiteServer " XSNW10S629K " -SiteCode "F01" -InstanceName "EvaluateTaggedADRs-DEV" |
| TEST PreProd | EvaluateTaggedADRs-TEST | "D:\PowerShell\_Tasks\EvaluateTaggedADRs\EvaluateTaggedADRs.PS1" -SiteServer " XSNW10W142C " -SiteCode "PP0" -InstanceName "EvaluateTaggedADRs-TEST" |
| PROD | EvaluateTaggedADRs-PROD | "D:\PowerShell\_Tasks\EvaluateTaggedADRs\EvaluateTaggedADRs.PS1" -SiteServer " XSPW10W200P " -SiteCode "P00" -InstanceName "EvaluateTaggedADRs-PROD" |

**General**

Run whether or not a user is logged in : Account Name = Pharma\svc\_SCRB\_<Environment>

Run with highest privileges

Windows Vista / Windows Server 2008

**Action**

Command Line : PowerShell.exe

Command Line Parameters : ( See table above )

Start In : D:\PowerShell\_Tasks\EvaluateTaggedADRs

**Trigger**

Daily, Repeat every 15 minutes, Stop if it runs longer than 30 minutes

Start Time : Stagger the start times between the DEV, TEST and PROD environments. Pick from the times below depending on the environment you are implementing

PROD : 12:00 AM

TEST : 12:05 AM

DEV : 12:10 AM