



Dell Warranty Checker – ConfigMgr PowerBl Report

Maurice Daly / November 16, 2017

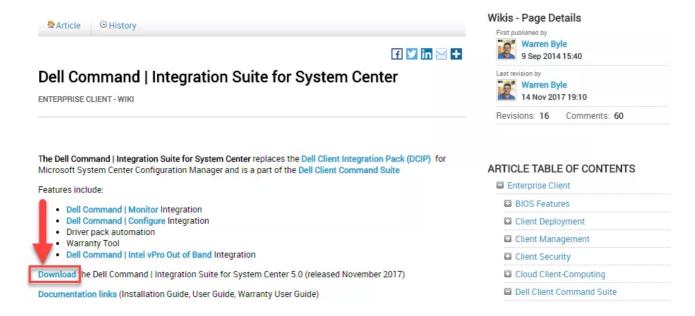
In case you missed it, Dell released an update to their excellent Command Integration Suite this week. As part of the update they included a new version of their warranty checker utility, thankfully this now has an inbuilt API for checking warranty info. Using this utility we can leverage information from ConfigMgr in the form of an exported CSV file, combine this with ConfigMgr SQL dat and then render a warranty report via PowerBI for a warranty dashboard.

So here we will step through how to do this.

DELL COMMAND INTEGRATION SHITE

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.

The first step here is to **upgrade** to the latest version of the **Dell Command Integration Suite** (at the time of this post that is 5.0). This can be downloaded from the following URL: http://en.community.dell.com/techcenter/enterprise-client/w/wiki/7533.dell-command-integration-suite-for-system-center.



After installation you now have the warranty tool to leverage with ConfigMgr by using the /ICS switch and pointing it at your ConfigMgr SQL server/database. The /E= switch allows you to specify the report location as by default this goes into the ProgramData directory, however in this instance we will use a UNC share as reports will be scheduled to write to this location.

More switch information for proxy server authentication etc can be found by using the /? switch as normal.

SCHEDULE THE WARRANTY INFORMATION REPORT

Now set up a scheduled task to run the tool and place the exported CSV in our shared location. This will allow the PowerBI report to refresh the data either manually or automatically through the use a PowerBI gateway.

 Add a scheduled task either manually or by using the following code below in a PowerShell PSI script file. Change the YOURSERVER and YOURSHARE values to suit:

```
$TaskArguments = "/lcs=" + '"' + "Data

Source=YOURSQLSERVER;Database=YOURDB;Integrated

Security=true:" + '"' + " /F=" + '"' +
```

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.

```
(x86)\Dell\CommandIntegrationSuite"
$Trigger = New-ScheduledTaskTrigger -At "00:00" -Daily
$Settings = New-ScheduledTaskSettingsSet -DontStopOnIdleEnd -
RestartInterval (New-TimeSpan -Minutes 5) -RestartCount 10 -
StartWhenAvailable
$Settings.ExecutionTimeLimit = "PTOS"
$UserName = Read-Host -Prompt "Username"
$SecurePassword = Read-Host -Prompt "Password" -AsSecureString
$Credentials = New-Object
System.Management.Automation.PSCredential -ArgumentList
$UserName, $SecurePassword
$Password = $Credentials.GetNetworkCredential().Password
$Task = New-ScheduledTask -Action $Action -Trigger $Trigger -
Settings $Settings
$Task | Register-ScheduledTask -TaskName 'Dell Warranty Report
Refresh' -User $UserName -Password $Password
```

When creating the task manually or via a script ensure that you have the correct authentication method set depending on your environment:

Integrated Security

DellWarranty-CLI.exe /Ics="Data
Source=**YOURSQLSERVER**;Database=**YOURSCCMDB**;Integrated
Security=true;"/E="\\YOURSERVER\YOURSHARE\DellWarranty.csv"

Specified User & Password

DellWarranty-CLI.exe /lcs="Data
Source=**YOURSQLSERVER**;Database=**YOURSCCMDB**;User
ID=USERNAME;Password=USERPASSWORD;"
/E="\\YOURSERVER\YOURSHARE\DellWarranty.csv"

 Test running the scheduled task and review the CSV output. You should have something like this;

```
"Service Tag", "BUID", "Product ID", "Country Code", "LO8", "Machine Description", "Ship Date", "Item number", "Start Date", "End Date", "Service Level Description", "5102", "1atitude-e5470-laptop", "IE", "Latitude E5470", "03/28/2016 07:00:00 pm", "712-10723", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "710-65683", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "711-12004", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "525-10283", "03/28/2016 07:00:00 pm", "03/29/2017 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "525-10283", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "712-10723", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "712-10723", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "712-10723", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "709-12818", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "709-12818", "03/28/2016 07:00:00 pm", "03/29/2019 06:59:59 ", "5102", "latitude-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "709-12818", "03/28/2016 07:00:00 pm", "03/29/2014 06:59:59 ", "5102", "0111042-e5470-laptop", "IE", "Latitude", "Latitude E5470", "03/28/2016 07:00:00 pm", "521-10283", "03/38/2016 07:00:00 pm", "03/29/2014 06:59:59
```

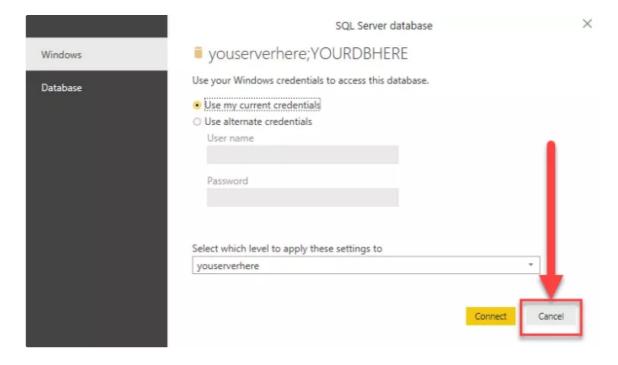
SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.

With our exported CSV now accessible on a network share, we can set about creating a PowerBI report to allow you to drill down and graphically represent your warranty details.

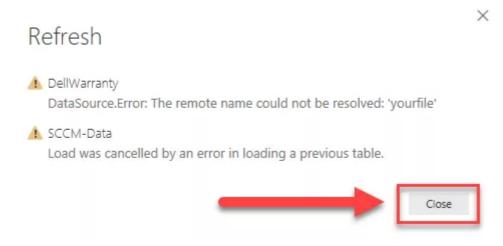
Download PowerBI Desktop (if you don't already have it installed) – https://powerbi.microsoft.com/en-us/desktop/

Download the Dell Warranty PowerBI template from Microsoft Technet – https://gallery.technet.microsoft.com/Dell-Warranty-PowerBI-f9696115

- Run the Dell Warranty Scheduled task, or manually run the Dell Warranty utility and generate the CSV to a shared location
- 2. Open PowerBI Desktop
- 3. Click File, Open and select the PowerBI template
- 4. You will be prompted for SQL server details, click close



5. Next you will receive a warning about the sources being unavailable, again click **close**



- 6. Click on Edit Queries Edit Query
- 7. You will now see two query sources listed



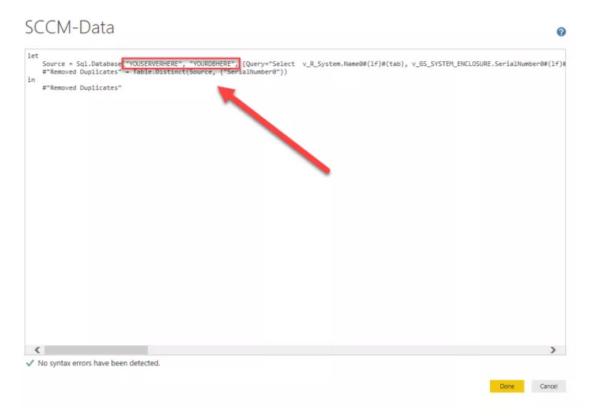
- 8. Highlight the DellWarranty Source
- 9. Click on Advanced Editor
- 10. Change the path to the UNC path of your Dell Warranty CSV file



SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.



- 12. Select the SCCM-Data source and click on Advanced Editor
- 13. Change the SQLServer and DB values to match your environment



14. When prompted click on the Edit Permissions button

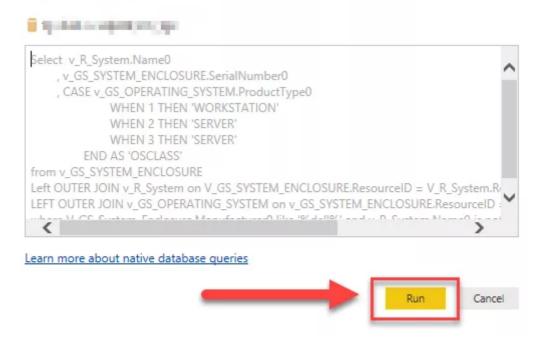


15. Click on the **Run** button to run the SQL query

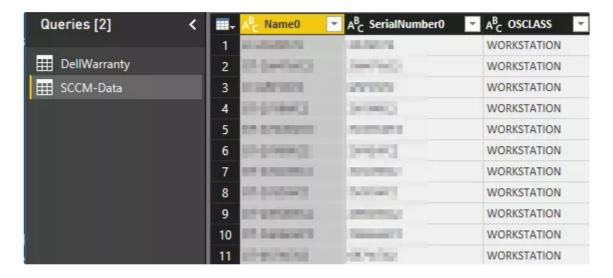
Native Database Query

Do you approve running this native query? Your approval will also apply to any occurrences of the same native query in other documents.

Native queries may be unsafe and alter the database. Because native queries may be rerun multiple times, those which do alter the database may result in incorrect or unpredictable behavior.

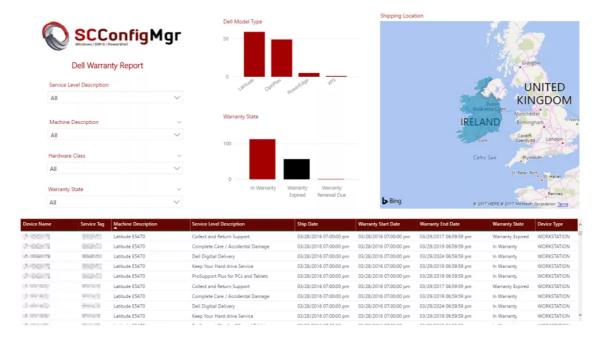


16. You should now have data from your SQL server



- 17. Click on Close & Apply
- 18. Click on the Refresh button
- 19. You should now have a report similar to the one below:

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.



20. Now you can either **Publish** the report directly to your Office 365
Sharepoint environment or schedule a push of data out via a PowerBI gateway. **More on the PowerBI gateway** feature is available on the **post by Jordan Benzing** –

http://www.scconfigmgr.com/2017/11/13/keeping-data-current-with-the-powerbi-gateway/

Warranty State Calculated Field

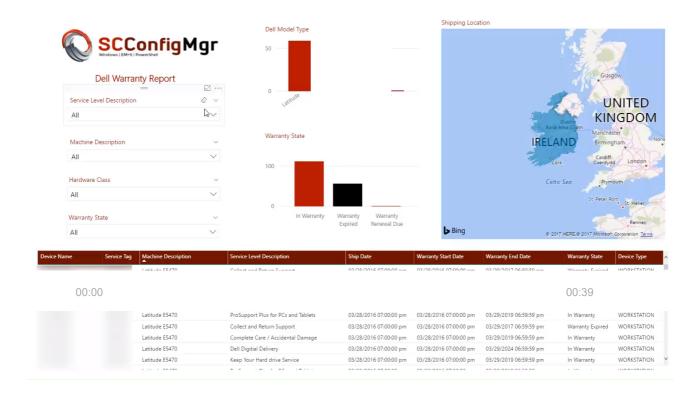
You can edit the warranty state calculated field to suit your own needs;

Warranty State = If([Warranty Remaining]<=0,"Warranty Expired",If([Warranty Remaining]<1,"Warranty Expiring",If([Warranty Remaining]<3,"Warranty Renewal Due",If([Warranty Remaining]>3,"In Warranty"))))

INTERACTIVE REPORT

You should now have a report that allows you to filter based on the machine type, the type of warranty, location etc.

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.



UPDATE - 17/11/2017

Some tweaks and graphics have been added by Jordan and myself, so the template has been updated.

(3306)



Maurice Daly

Maurice has been working in the IT industry for the past 18 years and currently working in the role of Principal Consultant with TrueSec. With a focus on OS deployment through SCCM/MDT, group policies, active directory, virtualisation and office 365, Maurice has been a Windows Server MCSE since 2008 and was awarded Enterprise Mobility MVP in March 2017.







SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.





PATCH COMPLIANCE

REPORTING IN

CONFIGURATION

MANAGER WITH POWERBI

November 7, 2017 In "ConfigMgr" MAINTAINING BIOS &

DRIVERS POST WINDOWS

DEPLOYMENT

October 13, 2017 In "Automation" CONVERT FROM BIOS TO

UEFI ON DELL SYSTEMS

WITH CONFIGMGR

CURRENT BRANCH - PART 1

February 18, 2017 In "BIOS"



PREVIOUS POST

BitLocker Compliance Reporting with PowerBI

Maurice Daly / November 14, 2017

NEXT POST

ConfigMgr Patch Compliance With PowerBI - V1.0.0.7

Jordan Benzing / November 14, 2017

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.

COMMENTS



POSTED AT 13:56 NOVEMBER 16, 2017

Thomas

Why export to csv? wouldnt it be better to put it directly into a seperate sql database, and use the powerbi report directly from there? it allows yo publish the powerbi into Teams, and use the gateway for daily refresh for those that need it.



POSTED AT 15:19 NOVEMBER 16, 2017

Maurice Daly

It is which ever you are comfortable doing, if you want to create a separate database then you can use the /Ocs switch with the Dell Warranty utility and do so.

Just remember that you will need sufficient SQL licensing in that instance also.



POSTED AT 19:13 NOVEMBER 16, 2017

Thomas

Already have a license with the sql server for sccm $\stackrel{f v}{=}$

What i did was i got a public API key from Dell, and used it with Mike's https://gallery.technet.microsoft.com/Dell-Warranty-Bulk-Import-bc0e4d47 powershell script to check sccm database tags once a day and update the table accordingly.

Then i just createad a powerbi that connects to the sql and all members of the teams site can check warranty status that is daily refreshed:)



POSTED AT 19:51 NOVEMBER 16, 2017

Maurice Daly

You must understand that not everyone has spare SQL licensing capacity, hence a flat format provides a free alternative. It's also worth noting that under the license for SQL with SCCM, you are not entitled to use additional databases in that instance either.

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.



POSTED AT 15:29 NOVEMBER 16, 2017

Dewayne

Can you push data from the warranty tool directly into the cm database so that you can integrate it into normal sql reports?



POSTED AT 15:43 NOVEMBER 16, 2017

Maurice Daly

Editing the ConfigMgr SQL DB or adding to it in this method is completely unsupported.



POSTED AT 17:13 NOVEMBER 16, 2017

Silvia

You've been rocking these PowerBi reports lately, I love it! < 3



POSTED AT 21:50 NOVEMBER 29, 2017

David

Maybe I am not getting something, I copied the script, modified it for my db site, db and a UNC path to store the CSV file. I ran the task, it completed, no CSV was generated. Last run result shows "Incorrect function. (0x8007001). I can't see anything else. Something is clearly not right I am just not sure what. The task and script was ran with an account that has access to the SQL database.



POSTED AT 23:53 NOVEMBER 29, 2017

Maurice Daly

Hi David,

The first thing you should try in troubleshooting is to run the Dell Warranty utility directly to see if the CSV is generated:

DellWarranty-CLI.exe /lcs="Data Source=YOURSQLSERVER;Database=YOURSCCMDB;Integrated Security=true;" /E="\\YOURSERVER\YOURSHARE\DellWarranty.csv"

Regards

Maurice

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.

I fixed it, it was a typo:). Thanks for the response. Another question though, how can I pull the device name with this tool and add it to my report?

Q LEAVE A REPLY

Add your comment here	
	<u></u>
Name (Required)	
Email (Required)	
Website URL	
POST COMMENT	
Notify me of follow-up comments by email.	
Notify me of new posts by email.	
This site uses Akismet to reduce spam. Learn how your comment data is processed.	

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.



July 2018

June 2018

May 2018

March 2018

February 2018

POPULAR POSTS

Remove Built-in apps for Windows 10 version 1803

Remove Built-in apps when creating a Windows 10 reference image

Create Windows 10 Kiosk devices using Microsoft Intune - multiple apps

SPEAKING EVENTS





COPYRIGHT © SYSTEM CENTER CONFIGMGR. 2018 • ALL RIGHTS RESERVED.

SCConfigMgr.com use cookies to ensure that we give you the best experience on our website.