DELL INTEGRATION SUITE

In this post, I will show you the steps involved in installing the following:

1. Dell Command Integration Suite for Configuration Manager (DCIS) - https://www.dell.com/support/home/ca/en/cabsdt1/drivers/driversdetails?driverid=79TR1
2. Dell Command Monitor (DCM) - https://www.dell.com/support/article/ca/en/cabsdt1/sln311855/dell-command-monitor?lang=en
3. Dell Command Configure (DCC) - https://www.dell.com/support/article/ca/en/cabsdt1/sln311302/dell-command-configure?lang=en
4. Dell Command Deploy Driver Packs for Enterprise Client OS Deployment - https://www.dell.com/support/article/ca/en/cabsdt1/sln312414/dell-command-deploy-driver-packs-for-enterprise-client-os-deployment?lang=en
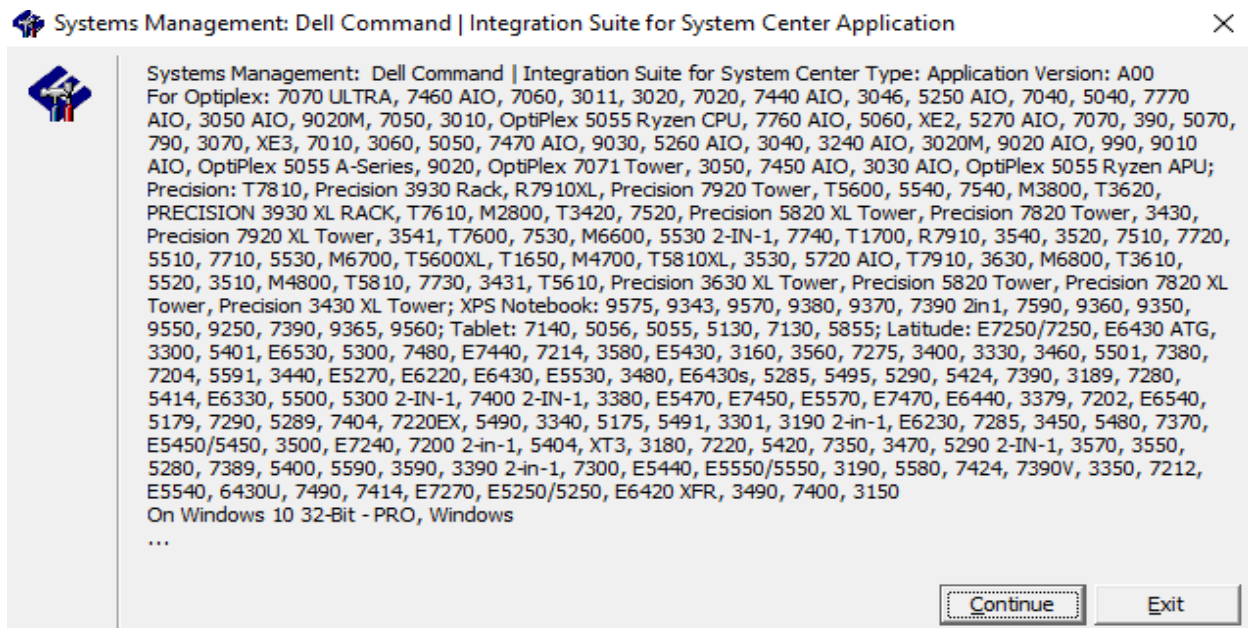
I will be covering 1-2 only for now. May be at a later date another blog to cover 3-4. Enjoy the ride!
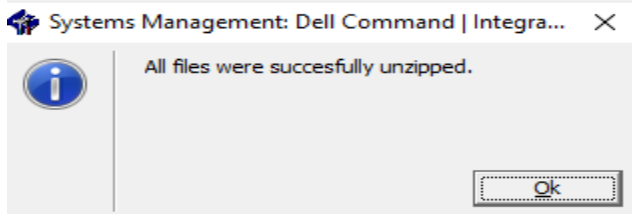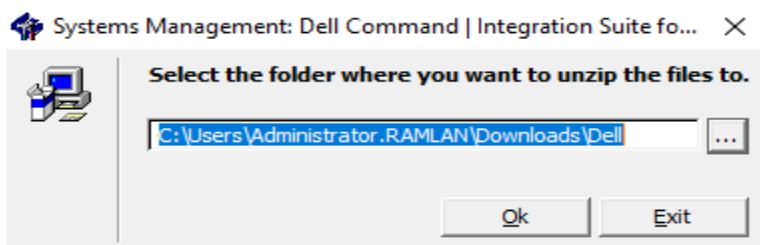
I have downloaded all of the files to a folder called Dell and saved it on Configuration Manager Server. I will be installing Integration Suite on the Configuration Manager Server (CB.RAMLAN.CA). Here it is

Run DCIS.29.ZPE.exe

CB > Downloads > Dell

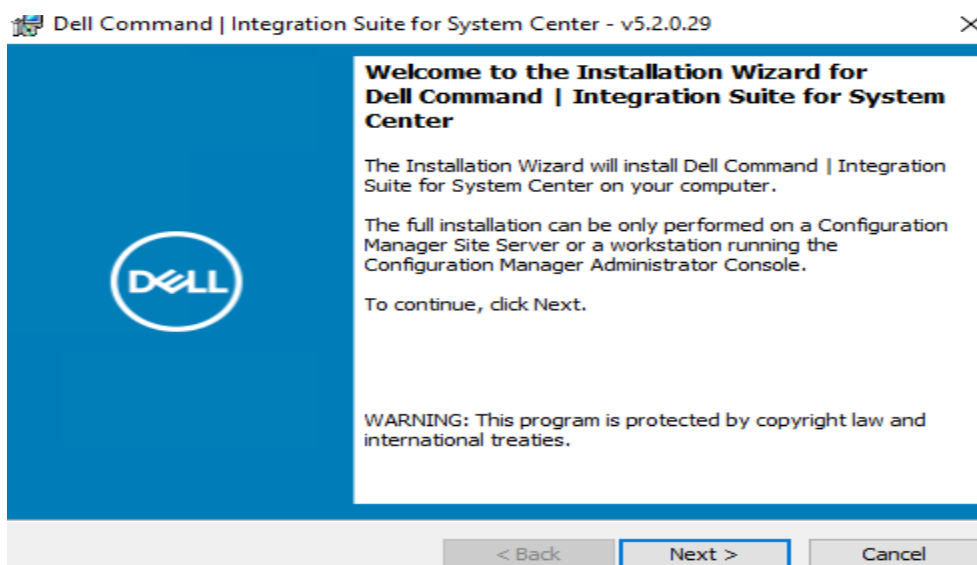| Name		Date modified	Type	Size
⚙ DCIS_29_ZPE.exe		18-Jan-2020 12:52 ...	Application	22,758 KB
🌐 Dell-Command-Configure_DX4T3_WIN_4.2.1.568_A00.EXE		18-Jan-2020 12:53 ...	Application	36,528 KB
🌐 Dell-Command-Monitor_70PH6_WIN_10.2.1.80_A00.EXE		18-Jan-2020 12:53 ...	Application	36,582 KB

⚙ Systems Management: Dell Command | Integration Suite for System Center Application   ✕

Systems Management: Dell Command | Integration Suite for System Center Type: Application Version: A00
For Optiplex: 7070 ULTRA, 7460 AIO, 7060, 3011, 3020, 7020, 7440 AIO, 3046, 5250 AIO, 7040, 5040, 7770 AIO, 3050 AIO, 9020M, 7050, 3010, OptiPlex 5055 Ryzen CPU, 7760 AIO, 5060, XE2, 5270 AIO, 7070, 390, 5070, 790, 3070, XE3, 7010, 3060, 5050, 7470 AIO, 9030, 5260 AIO, 3040, 3240 AIO, 3020M, 9020 AIO, 990, 9010 AIO, OptiPlex 5055 A-Series, 9020, OptiPlex 7071 Tower, 3050, 7450 AIO, 3030 AIO, OptiPlex 5055 Ryzen APU; Precision: T7810, Precision 3930 Rack, R7910XL, Precision 7920 Tower, T5600, 5540, 7540, M3800, T3620, PRECISION 3930 XL RACK, T7610, M2800, T3420, 7520, Precision 5820 XL Tower, Precision 7820 Tower, 3430, Precision 7920 XL Tower, 3541, T7600, 7530, M6600, 5530 2-IN-1, 7740, T1700, R7910, 3540, 3520, 7510, 7720, 5510, 7710, 5530, M6700, T5600XL, T1650, M4700, T5810XL, 3530, 5720 AIO, T7910, 3630, M6800, T3610, 5520, 3510, M4800, T5810, 7730, 3431, T5610, Precision 3630 XL Tower, Precision 5820 Tower, Precision 7820 XL Tower, Precision 3430 XL Tower; XPS Notebook: 9575, 9343, 9570, 9380, 9370, 7390 2in1, 7590, 9360, 9350, 9550, 9250, 7390, 9365, 9560; Tablet: 7140, 5056, 5055, 5130, 7130, 5855; Latitude: E7250/7250, E6430 ATG, 3300, 5401, E6530, 5300, 7480, E7440, 7214, 3580, E5430, 3160, 3560, 7275, 3400, 3330, 3460, 5501, 7380, 7204, 5591, 3440, E5270, E6220, E6430, E5530, 3480, E6430s, 5285, 5495, 5290, 5424, 7390, 3189, 7280, 5414, E6330, 5500, 5300 2-IN-1, 7400 2-IN-1, 3380, E5470, E7450, E5570, E7470, E6440, 3379, 7202, E6540, 5179, 7290, 5289, 7404, 7220EX, 5490, 3340, 5175, 5491, 3301, 3190 2-in-1, E6230, 7285, 3450, 5480, 7370, E5450/5450, 3500, E7240, 7200 2-in-1, 5404, XT3, 3180, 7220, 5420, 7350, 3470, 5290 2-IN-1, 3570, 3550, 5280, 7389, 5400, 5590, 3590, 3390 2-in-1, 7300, E5440, E5550/5550, 3190, 5580, 7424, 7390V, 3350, 7212, E5540, 6430U, 7490, 7414, E7270, E5250/5250, E6420 XFR, 3490, 7400, 3150
On Windows 10 32-Bit - PRO, Windows
...

[Continue]   [Exit]

Systems Management: Dell Command | Integration Suite fo... ✕

Select the folder where you want to unzip the files to.

C:\Users\Administrator.RAMLAN\Downloads\Dell [...]

[Ok] [Exit]

Systems Management: Dell Command | Integra... ✕

ⓘ All files were succesfully unzipped.

[Ok]

Run DCIS Setup 5.2.0.exe

| 🕑 DCIS_Setup_5_2_0.exe | 05-Dec-2019 5:47 ... | Application | 23,250 KB |

Dell Command | Integration Suite for System Center - v5.2.0.29 ✕

Welcome to the Installation Wizard for Dell Command | Integration Suite for System Center

The Installation Wizard will install Dell Command | Integration Suite for System Center on your computer.

The full installation can be only performed on a Configuration Manager Site Server or a workstation running the Configuration Manager Administrator Console.

To continue, click Next.

WARNING: This program is protected by copyright law and international treaties.

[< Back] [Next >] [Cancel]

Dell Command | Integration Suite for System Center - v5.2.0.29 ✕

2019 NEW UNIFIED DELL EULA - CLIENT SOFTWARE EULA

Dell End User License Agreement - Dell Software

THIS END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR AN ENTITY) AND DELL PRODUCTS L.P., A TEXAS LIMITED PARTNERSHIP, OR DELL GLOBAL B.V. (SINGAPORE

◉ I accept the terms in the license agreement
○ I do not accept the terms in the license agreement

[Print]

InstallShield

[< Back] [Next >] [Cancel]

Dell Command | Integration Suite for System Center - v5.2.0.29

Select a setup type.

Complete

All program features will be installed. (Requires the most disk space.)

Custom

Choose which program features you want installed. Recommended for advanced users.

InstallShield

[< Back] [Next >] [Cancel]

Dell Command | Integration Suite for System Center - v5.2.0.29

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield

[< Back] [Install] [Cancel]

Dell Command | Integration Suite for System Center - v5.2.0.29

Installation Completed Successfully

The Installation Wizard has successfully installed Dell Command | Integration Suite for System Center. Click Finish to exit the wizard.

☐ Show the Windows Installer log

[< Back] [Finish] [Cancel]

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Name	Publisher	Installed On	Size	Version
Active Directory Authentication Library for SQL Server	Microsoft Corporation	06-Jan-2019	1.78 MB	14.0.3015.40
Adobe Acrobat Reader DC	Adobe Systems Incorporated	23-Feb-2019	338 MB	15.007.20033
Browser for SQL Server 2017	Microsoft Corporation	22-Dec-2019	55.1 MB	14.0.1000.169
Classic Shell	IvoSoft	30-Dec-2018	13.1 MB	4.3.0
CMMap	TondtWare	13-Jan-2019	5.34 MB	2.2
Configuration Manager Support Center	Microsoft Corporation	12-Aug-20...	14.0 MB	5.1906.1000.1024
Dell Command	Integration Suite for System Center	Dell Inc.	18-Jan-2020	64.2 MB	5.2.0.29

Open SCCM console, go to Software Library>Application Management>Packages. On the top you can see two additional menus for Dell.
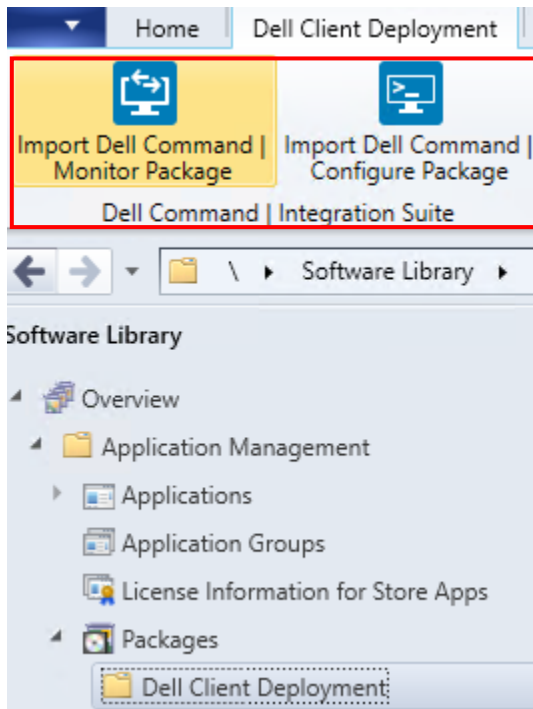
After integrating the Dell Command Suite within SCCM, you can perform Dell Command Monitor deployment to your clients to get more details about Dell hardware inventory.

The Dell Command Monitor is designed for Dell Enterprise Client systems, Dell IoT Gateway systems, Dell Embedded PCs. Furthermore, with Dell Command Monitor, system administrators can remotely manage assets, monitor system health, and inventory deployed systems in an enterprise.

The Process of installing DCM as a package is explained below.
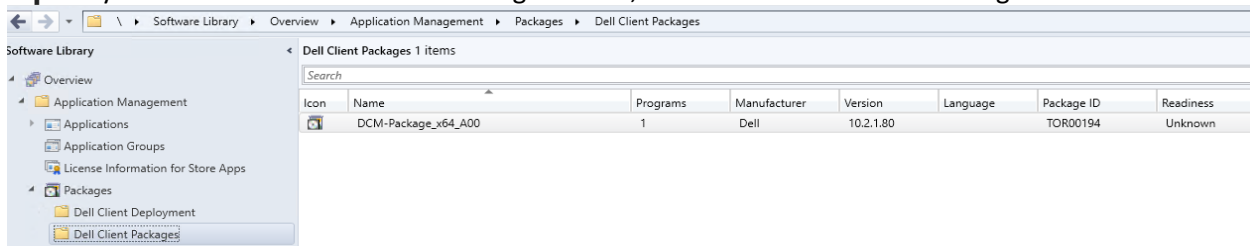
Copy this file to Sources folder.

CB › OS (C:) › Sources › Dell

Name	Date modified	Type	Size
Dell-Command-Monitor_70PH6_WIN_10.2.1.80_A00.EXE	18-Jan-2020 12:53 ...	Application	36,582 KB
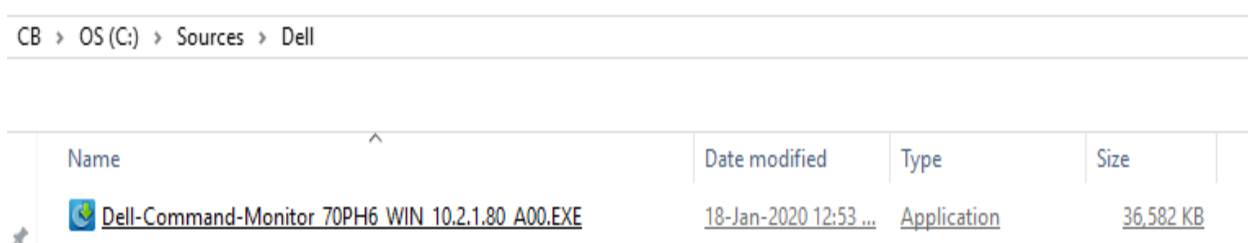
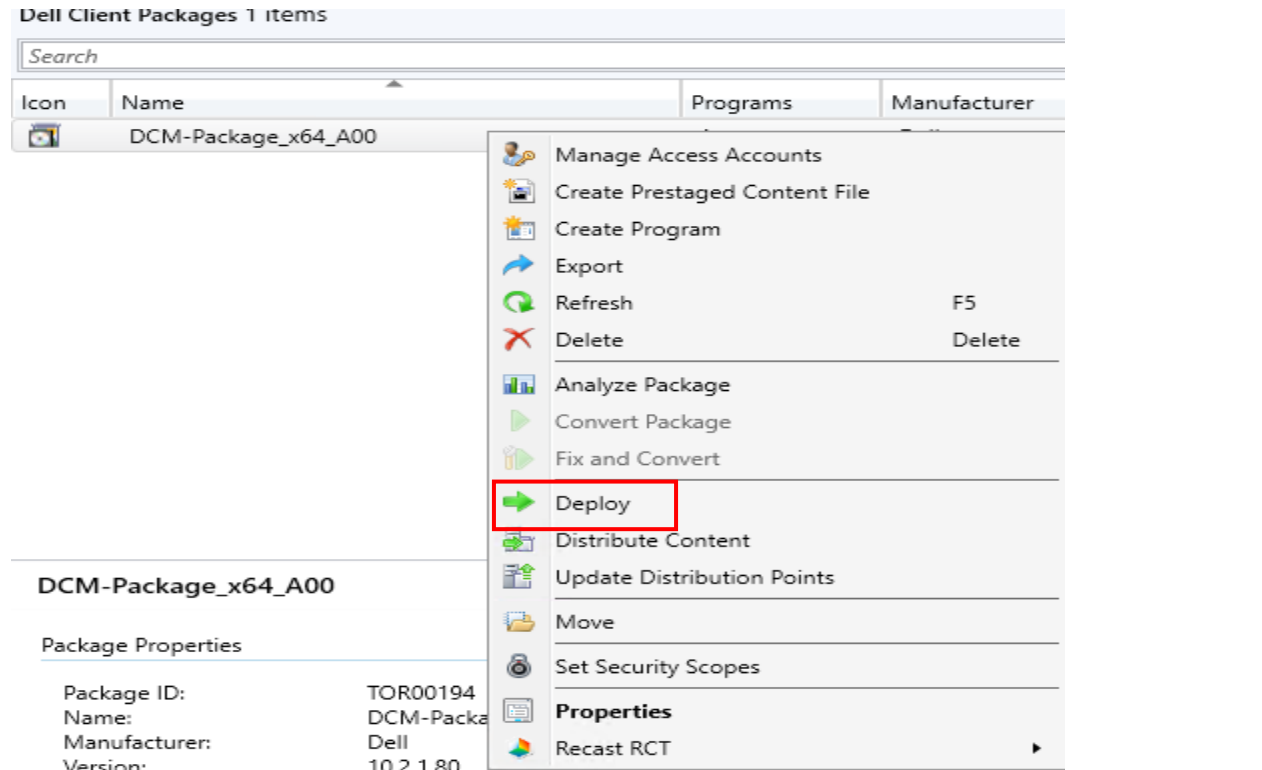Go to Software Library > Application Management > Packages.

In the top ribbon, click Packages Tab and click to Import Dell Command Monitor Package.
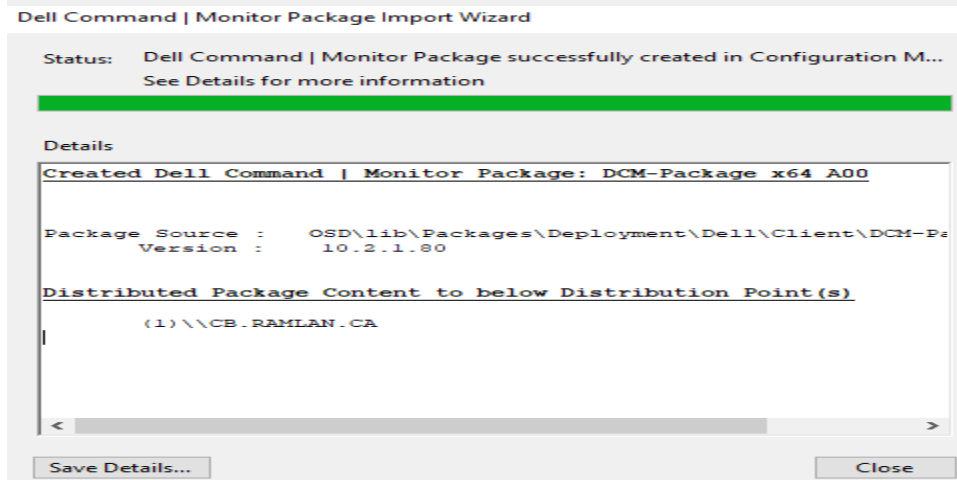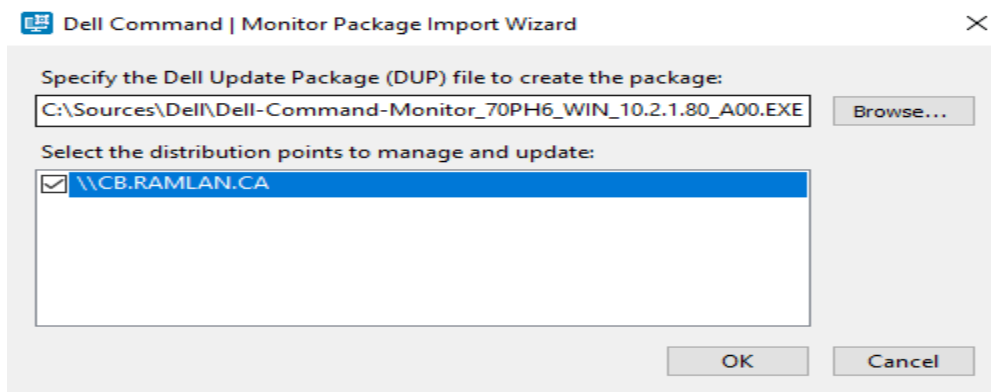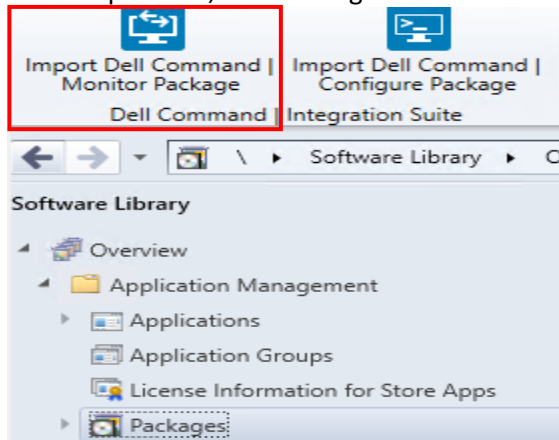
Tip – If you don't see the Dell Client Packages folder, close the console and check again.

Now we can deploy above package to all Dell clients within the enterprise.

Deploy Software Wizard

Content

Specify the content destination

Distribution points or distribution point groups that the content has been distributed to:

Name	Type	
\\CB.RAMLAN.CA	Distribution point	

Additional distribution points, distribution point groups, and the distribution point groups that are currently associated with collections to distribute content to:

Filter...

Name	Description	Associations
Toronto	Distribution point group	0

Add ▼

Remove

< Previous | Next > | Summary | Cancel

Deploy Software Wizard

Deployment Settings

Specify settings to control how this software is deployed

Action: Install

Purpose: Required

☐ Pre-deploy software to the user's primary device

☐ Send wake-up packets

☐ Allow clients on a metered Internet connection to download content after the installation deadline, which might incur additional costs

< Previous | Next > | Summary | Cancel

Deploy Software Wizard ✕

Scheduling

General
Content
Deployment Settings
   Scheduling
   User Experience
   Distribution Points
Summary
Progress
Completion

Specify the schedule for this deployment

This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.

☐ Schedule when this deployment will become available:

| 18-Jan -2020 | ▼ | 1:31 PM | ⬍ | ☐ UTC |

☐ Schedule when this deployment will expire:

| 18-Jan -2020 | ▼ | 1:31 PM | ⬍ | ☐ UTC |

Assignment schedule: [New...] [Edit...] [Delete]

There are no items to show in this view.

Rerun behavior: Always rerun program ▼

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

User Experience

General
Content
Deployment Settings
   Scheduling
   User Experience
   Distribution Points
Summary
Progress
Completion

Specify the user experience for the installation of this software on the selected devices

Notification settings:

☑ Allow users to run the program independently of assignments

When the scheduled assignment time is reached, allow the following activities to be performed outside the maintenance window:

☐ Software installation

☐ System restart (if required to complete the installation)

Write filter handling for Windows Embedded devices

☑ Commit changes at deadline or during a maintenance window (requires restarts)

If this option is not selected, content will be applied on the overlay and committed later.

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

Distribution Points

General
Content
Deployment Settings
   Scheduling
   User Experience
   Distribution Points
Summary
Progress
Completion

Specify how to run the content for this program according to the type of boundary the client is connected to

Select the deployment option to use when a client uses a distribution point from a current boundary group.

Deployment options:

Download content from distribution point and run locally	▼

Select the deployment option to use when a client uses a distribution point from a neighbor boundary group or the default site boundary group.

Deployment options:

Download content from distribution point and run locally	▼

When this content is not available on any distribution points in current and neighbor boundary groups, you can allow the client to use a distribution point in site default boundary group.

☐ Allow clients to use distribution points from the default site boundary group.

[< Previous] [Next >] [Summary] [Cancel]

Deploy Software Wizard ✕

Summary

General
Content
Deployment Settings
   Scheduling
   User Experience
   Distribution Points
Summary
Progress
Completion

Confirm the settings for this new deployment

Details:

```
General
   • Software: DCM-Package_x64_A00 (Dell Command | Monitor Launcher)
   • Collection: Dell Clients Win 10 (Member Count: 0)
   • Use default distribution point groups associated to this collection: Disabled
   • Automatically distribute content for dependencies: Disabled

Deployment Settings
   • Action: Install
   • Purpose: Available
   • Allow clients to use a metered Internet connection to download content: Disabled

Scheduling
   • Schedule when this deployment will become available: Disabled
   • Schedule when this deployment will expire: Disabled
   • Rerun behavior: Always rerun program

User Experience
   • Allow users to run the program independently of assignments: Enabled
   • Software installation: Disabled
   • System restart (if required to complete the installation): Disabled
   • Allow task sequence to run for client on the Internet: Disabled
   • Commit changes at deadline or during a maintenance window (requires restarts): Enabled

Distribution Points
   • Select the deployment option to use when a client uses a distribution point from a current boundary
     group.: Download content from distribution point and run locally
```

To change these settings, click Previous. To apply the settings, click Next.

[< Previous] [Next >] [Summary] [Cancel]

After you run Machine Policy refresh – You will see DCM package is available for install.

RAMLAN INC

Updates

Operating Systems

Installation status

Device compliance

Options

Personal

All   Required

Filter: All

Sort by: Most recent

DCM-Package_x64_A00...
Dell
10.2.1.80

Maxthon
5.3.8.2000
Maxthon Internation...
5.3.8.2000

Google Chrome
78.0.3904.87
Google LLC
78.0.3904.87

7-Zip (MSI-x64)
Igor Pavlov
19.00

Software Center

RAMLAN INC

Applications 1

Updates

Operating Systems

Installation status

Device compliance

Options

Personal

Applications > Application details

DCM-Package_x64_A00 - Dell Command | Monitor Launcher

Published by Dell

Install

Status: **Available**
Version: **10.2.1.80**
Date published: **18-Jan-2020**

Restart required: **No**
Download size: **35 MB**
Estimated time: **Not specified**
Total components: **1**

Software Center

RAMLAN INC

Applications 1

Updates

Operating Systems

Installation status

Device compliance

Options

Personal

Applications > Application details

DCM-Package_x64_A00 - Dell Command | Monitor Launcher

Published by Dell

Reinstall

Status: **Installed**
Version: **10.2.1.80**
Date published: **18-Jan-2020**

Restart required: **No**
Download size: **35 MB**
Estimated time: **Not specified**
Total components: **1**

After deploying Dell Command Monitor to Dell machines, we need to import related MOF file to SCCM Hardware Inventory classes to get more details.

To get the OMCI_SMS_DEF.mof file browse on Dell machine
C:\Program Files\Dell\Command_Monitor\ssa\omacim\OMCI_SMS_DEF.mof

CB > OS (C:) > Program Files > Dell > Command Monitor > ssa > omacim >

Name	Date modified	Type	Size
bin	18-Jan-2020 1:41 P...	File folder	
event	18-Jan-2020 1:41 P...	File folder	
log	18-Jan-2020 1:41 P...	File folder	
mofs	18-Jan-2020 1:41 P...	File folder	
xmlreg	18-Jan-2020 1:41 P...	File folder	
xslroot	18-Jan-2020 1:41 P...	File folder	
OMCI_SMS_DEF.mof	18-Dec-2019 5:02 ...	MOF File	35 KB

In the SCCM console, go to Administration > Client Settings. Right click Default Client Settings and click Properties.

Client Settings

Search

Icon	Name	Type	P
☑	Default Client Settings	Default	
☑	End Point		

Properties

Default Settings ✕

Background Intelligent Transfer
Client Cache Settings
Client Policy
Cloud Services
Compliance Settings
Computer Agent
Computer Restart
Delivery Optimization
Endpoint Protection
Enrollment
Hardware Inventory
Metered Internet Connections
Power Management
Remote Tools
Software Center
Software Deployment
Software Inventory
Software Metering
Software Updates
State Messaging
User and Device Affinity
Windows Analytics

Default Settings

Specify settings that apply to all clients in the hierarchy, and can be modified by custom settings.

Specify hardware inventory settings for client computers.

Device Settings

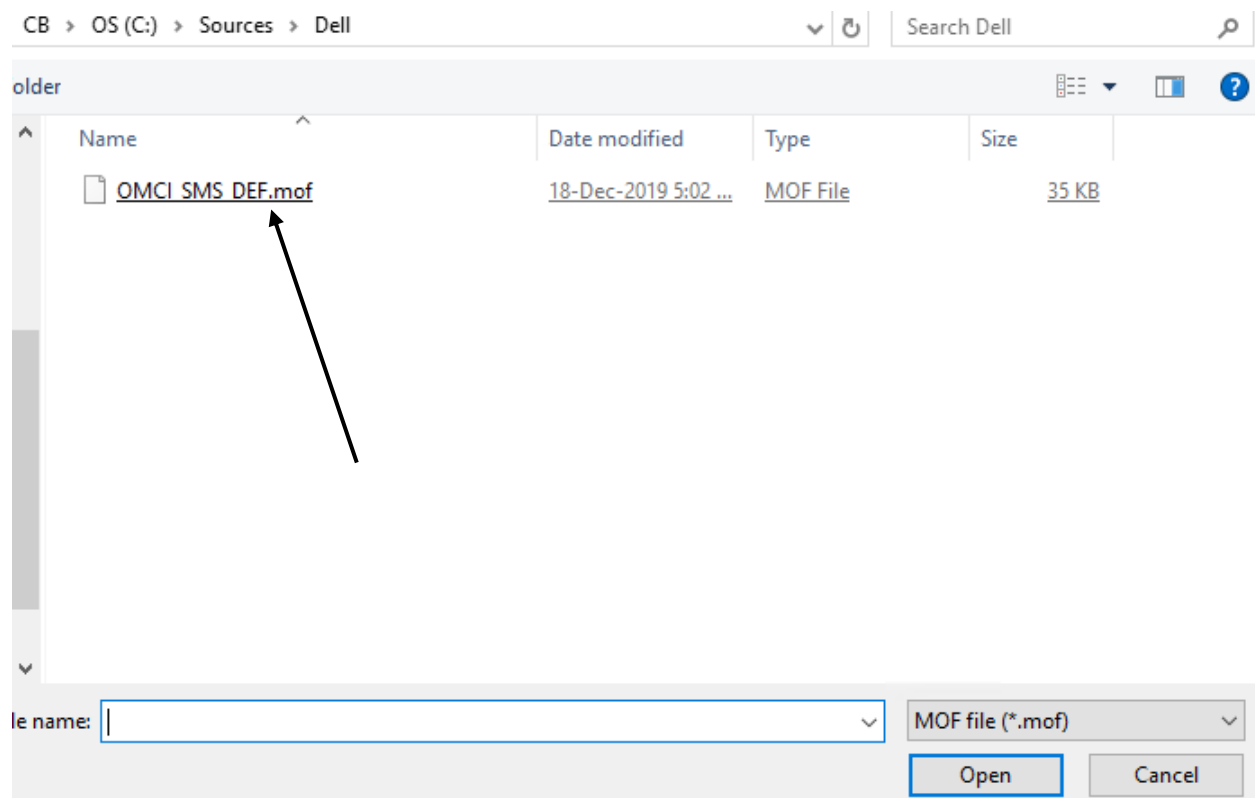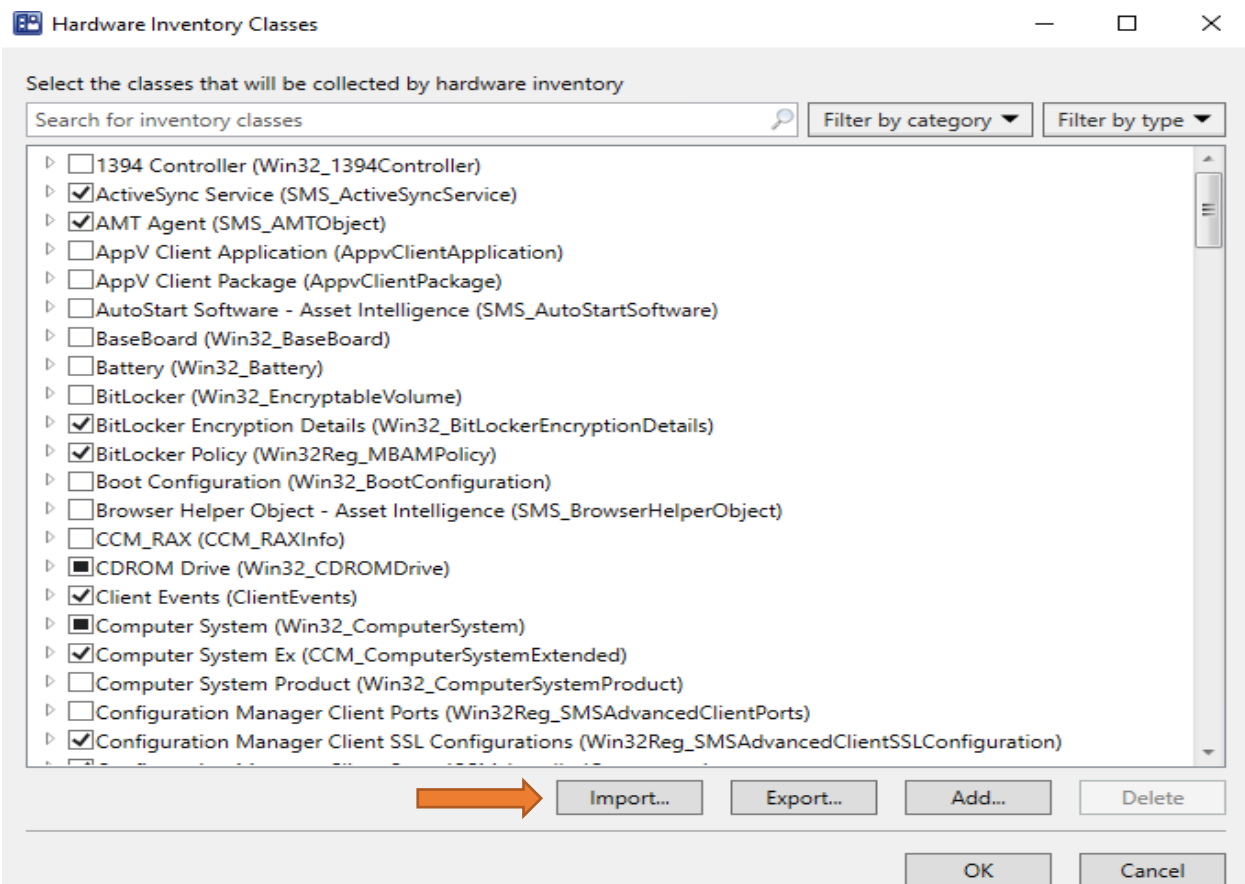|		
Enable hardware inventory on clients	Yes	
Hardware inventory schedule	Occurs every 7 days effective 01-Feb-1970 12:00 AM	Schedule ...
Maximum random delay (minutes)	240	
Maximum custom MIF file size (KB)	250	
Hardware inventory classes		Set Classes ...
Collect MIF files	None	

Hardware Inventory Classes

Select the classes that will be collected by hardware inventory

Search for inventory classes 🔍 | Filter by category ▼ | Filter by type ▼

- ▷ ☐ 1394 Controller (Win32_1394Controller)
- ▷ ☑ ActiveSync Service (SMS_ActiveSyncService)
- ▷ ☑ AMT Agent (SMS_AMTObject)
- ▷ ☐ AppV Client Application (AppvClientApplication)
- ▷ ☐ AppV Client Package (AppvClientPackage)
- ▷ ☐ AutoStart Software - Asset Intelligence (SMS_AutoStartSoftware)
- ▷ ☐ BaseBoard (Win32_BaseBoard)
- ▷ ☐ Battery (Win32_Battery)
- ▷ ☐ BitLocker (Win32_EncryptableVolume)
- ▷ ☑ BitLocker Encryption Details (Win32_BitLockerEncryptionDetails)
- ▷ ☑ BitLocker Policy (Win32Reg_MBAMPolicy)
- ▷ ☐ Boot Configuration (Win32_BootConfiguration)
- ▷ ☐ Browser Helper Object - Asset Intelligence (SMS_BrowserHelperObject)
- ▷ ☐ CCM_RAX (CCM_RAXInfo)
- ▷ ◼ CDROM Drive (Win32_CDROMDrive)
- ▷ ☑ Client Events (ClientEvents)
- ▷ ◼ Computer System (Win32_ComputerSystem)
- ▷ ☑ Computer System Ex (CCM_ComputerSystemExtended)
- ▷ ☐ Computer System Product (Win32_ComputerSystemProduct)
- ▷ ☐ Configuration Manager Client Ports (Win32Reg_SMSAdvancedClientPorts)
- ▷ ☑ Configuration Manager Client SSL Configurations (Win32Reg_SMSAdvancedClientSSLConfiguration)

Import... | Export... | Add... | Delete

OK | Cancel

CB > OS (C:) > Sources > Dell | ⌄ ↻ | Search Dell 🔍

older | ⊞ ▼ | ▯ | ❓

Name	Date modified	Type	Size
📄 OMCI_SMS_DEF.mof	18-Dec-2019 5:02 ...	MOF File	35 KB

le name: | | ⌄ | MOF file (*.mof) ⌄

Open | Cancel

Import Summary

Select the inventory items you want to install

- ● Import both hardware inventory classes and hardware inventory class settings
- ○ Import hardware inventory classes only
- ○ Import hardware inventory class settings only

✅ The following hardware inventory classes are found in the import file:

✅ **The following classes will be added:**

DCIM Alert Indication Setting Data (DCIM_AlertIndicationSettingData)
DCIM AMTSettings (DCIM_AMTSettings)
DCIM ASFSettings (DCIM_ASFSettings)
DCIM Asset Warranty Information (DCIM_AssetWarrantyInformation)
DCIM Battery (DCIM_Battery)
DCIM BIOS Enumeration (DCIM_BIOSEnumeration)
DCIM BIOSElement (DCIM_BIOSElement)
DCIM BIOSPassword (DCIM_BIOSPassword)
DCIM BIOSService (DCIM_BIOSService)
DCIM BIOSString (DCIM_BIOSString)
DCIM Boot Config Setting (DCIM_BootConfigSetting)
DCIM Boot Service (DCIM_BootService)
DCIM Boot Source Setting (DCIM_BootSourceSetting)
DCIM Button (DCIM_Button)
DCIM Card (DCIM_Card)
DCIM Chassis and Docking (DCIM_Chassis)
DCIM Chip (DCIM_Chip)
DCIM Computer System (DCIM_ComputerSystem)
DCIM Concrete Job (DCIM_ConcreteJob)
DCIM Controller View (DCIM_ControllerView)
DCIM Desktop Monitor (DCIM_DesktopMonitor)
DCIM Device Bay (DCIM_DeviceBay)

[**Import**]   [Cancel]

Hardware Inventory Classes

Select the classes that will be collected by hardware inventory

Search for inventory classes 🔍   [Filter by category ▼]   [Filter by type ▼]

- ▷ ☐ DCIM Alert Indication Setting Data (DCIM_AlertIndicationSettingData)
- ▷ ☑ DCIM AMTSettings (DCIM_AMTSettings)
- ▷ ☑ DCIM ASFSettings (DCIM_ASFSettings)
- ▷ ☐ DCIM Asset Warranty Information (DCIM_AssetWarrantyInformation)
- ▷ ☑ DCIM Battery (DCIM_Battery)
- ▷ ☑ DCIM BIOS Enumeration (DCIM_BIOSEnumeration)
- ▷ ☑ DCIM BIOSElement (DCIM_BIOSElement)
- ▷ ☑ DCIM BIOSPassword (DCIM_BIOSPassword)
- ▷ ☑ DCIM BIOSService (DCIM_BIOSService)
- ▷ ☐ DCIM BIOSString (DCIM_BIOSString)
- ▷ ☑ DCIM Boot Config Setting (DCIM_BootConfigSetting)
- ▷ ☑ DCIM Boot Service (DCIM_BootService)
- ▷ ☑ DCIM Boot Source Setting (DCIM_BootSourceSetting)
- ▷ ☑ DCIM Button (DCIM_Button)
- ▷ ☑ DCIM Card (DCIM_Card)
- ▷ ☑ DCIM Chassis and Docking (DCIM_Chassis)
- ▷ ☐ DCIM Chip (DCIM_Chip)
- ▷ ☑ DCIM Computer System (DCIM_ComputerSystem)
- ▷ ☑ DCIM Concrete Job (DCIM_ConcreteJob)
- ▷ ☑ DCIM Controller View (DCIM_ControllerView)
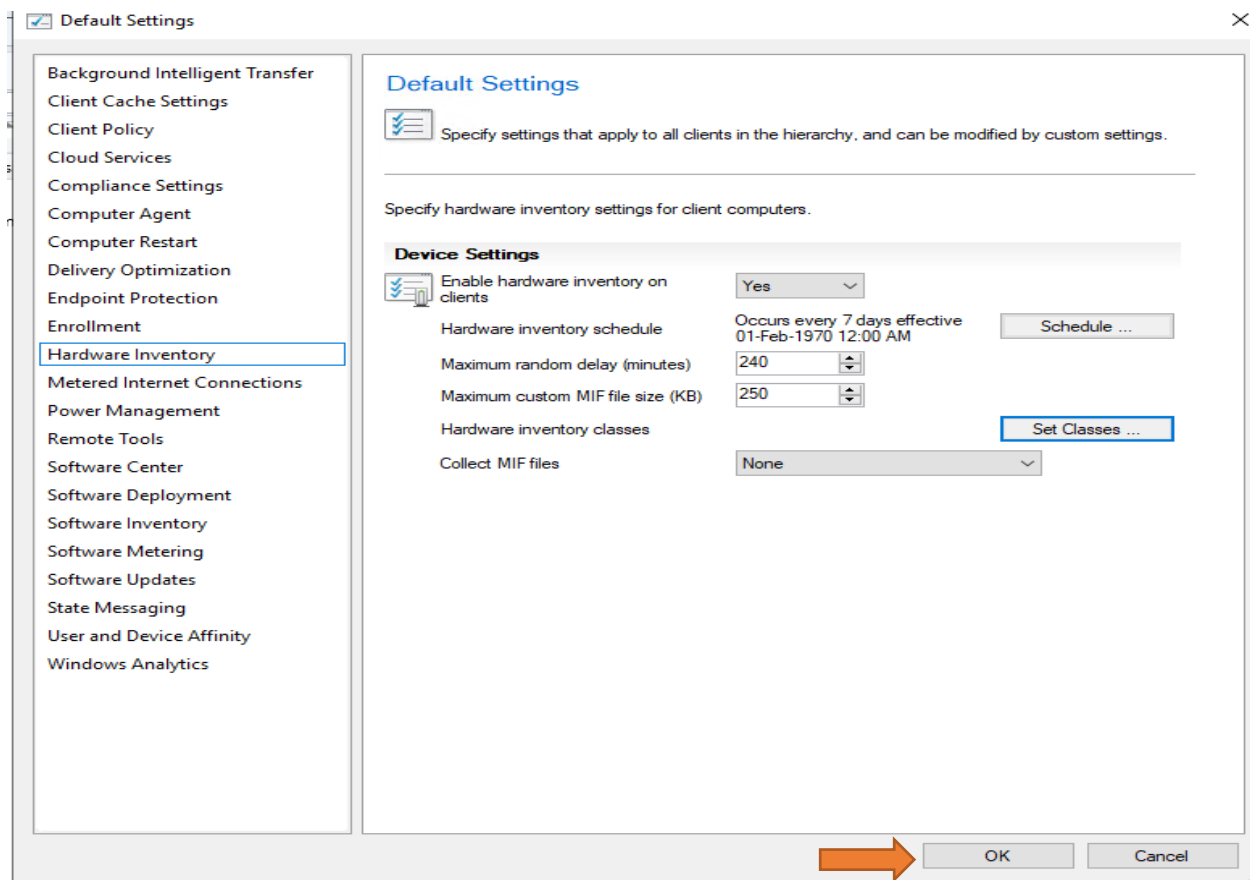- ▷ ☑ DCIM Desktop Monitor (DCIM_DesktopMonitor)

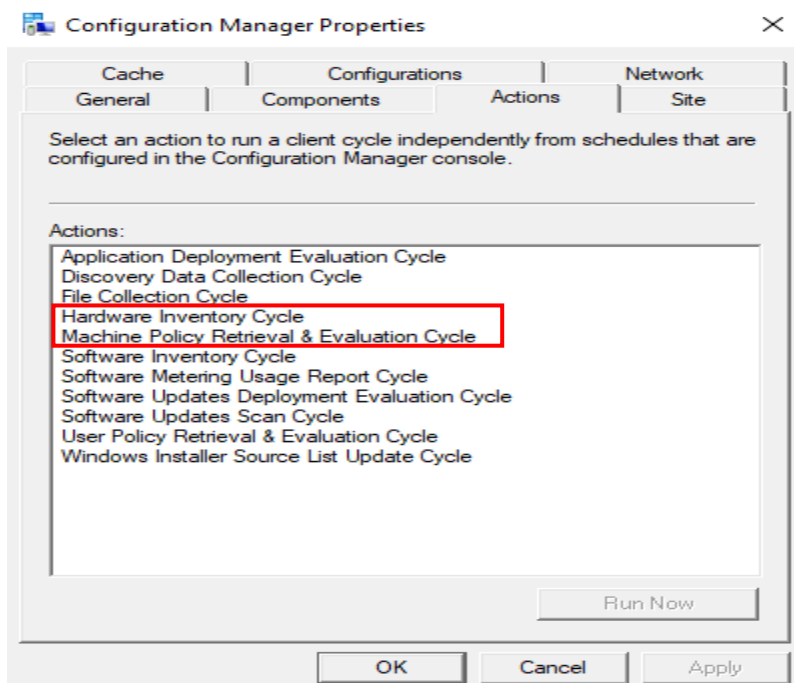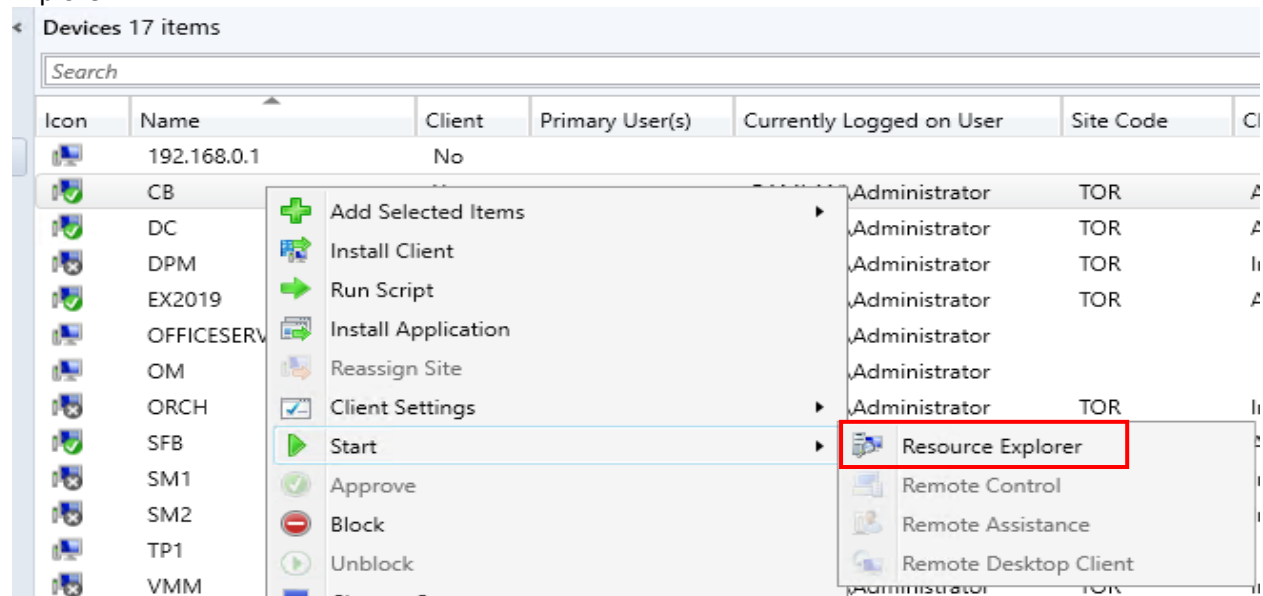[Import...]   [Export...]   [Add...]   [Delete]
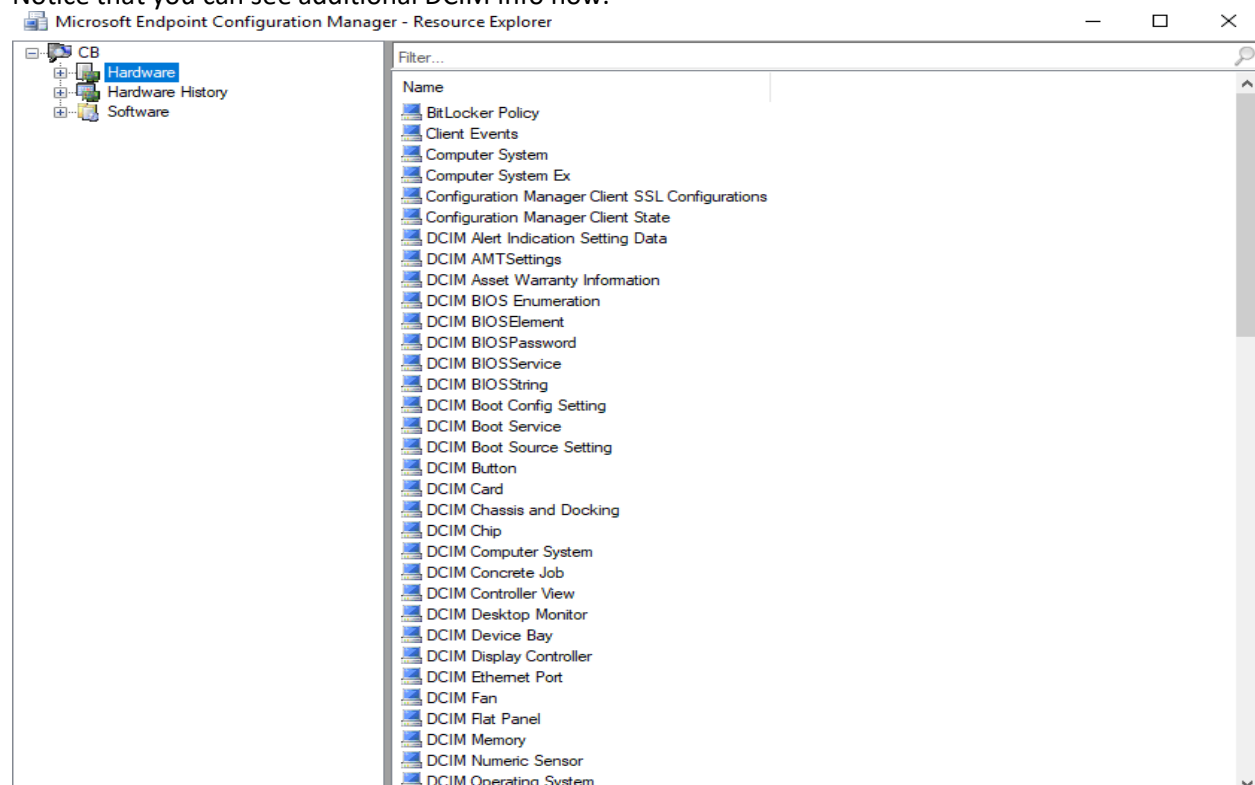
[**OK**]   [Cancel]

Login to Dell machine - Open Control Panel > System and Security > Configuration Manager. Go to Actions tab, run Machine Policy Retrieval & Evaluation Cycle and Hardware Inventory Cycle in order.

After few minutes, under Assets and Compliance, right click a Dell machine and click Start > Resource Explorer.

Notice that you can see additional DCIM info now.

This concludes Dell Integration suite configuration. Using Dell Command Monitor, SCCM administrators can remotely manage assets, monitor system health, and inventory deployed systems in an enterprise.

Thanks

Ram Lan
18th Jan 2020