

Configuration Manager 180x and then some!



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Onevinn

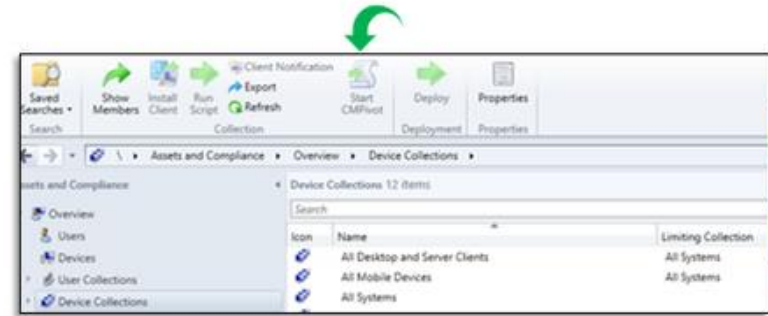


Årets Partner
2018

Modern
Workplace

CMPIVot – No more “SMS”!

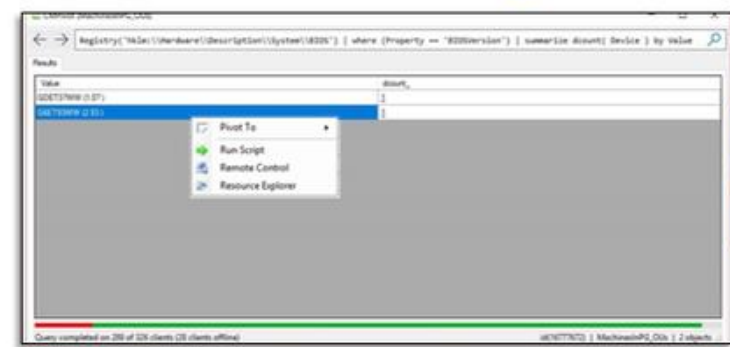
- Query real-time client data
- Example:
 - Use CMPIVot to quickly query on system BIOS information and find clients that are not in compliance. You can then switch to Run Scripts to quickly remediate them with a scripted solution.



View Device Collection and start **CMPIVot** from the Ribbon

Create the real-time query

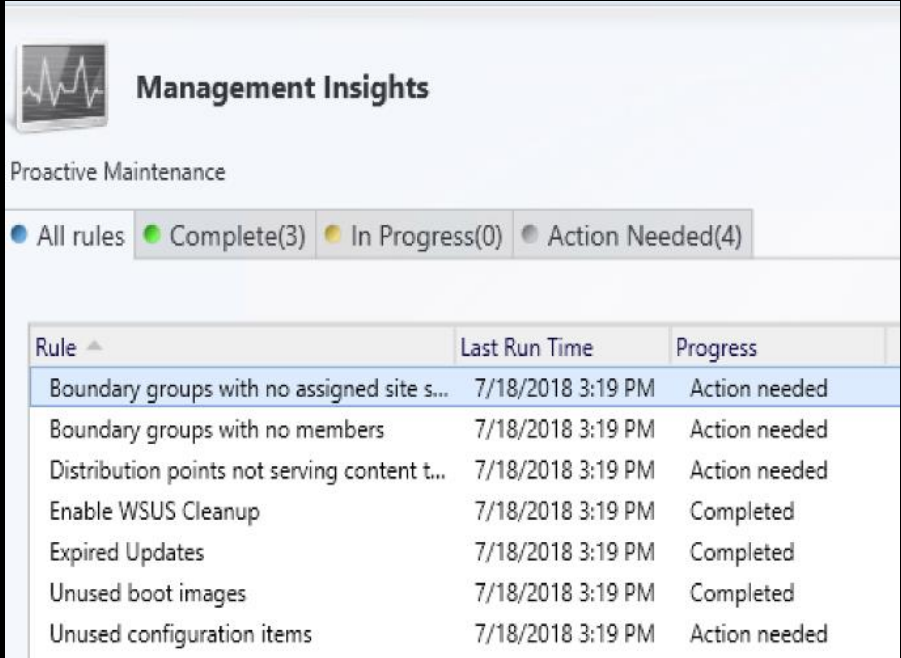
```
Registry('hklm:\\Hardware\\Description\\System\\BIOS') | where (Property == 'BIOSVersion')
```



Run Script from **CMPIVot** results to remediate

Management insights for proactive maintenance

- **New Proactive Maintenance group:**
 - Unused configuration items
 - Unused boot images
 - Boundary groups with no assigned site systems
 - Boundary groups with no members
 - Distribution points not serving content to clients
 - Expired updates found



Management Insights

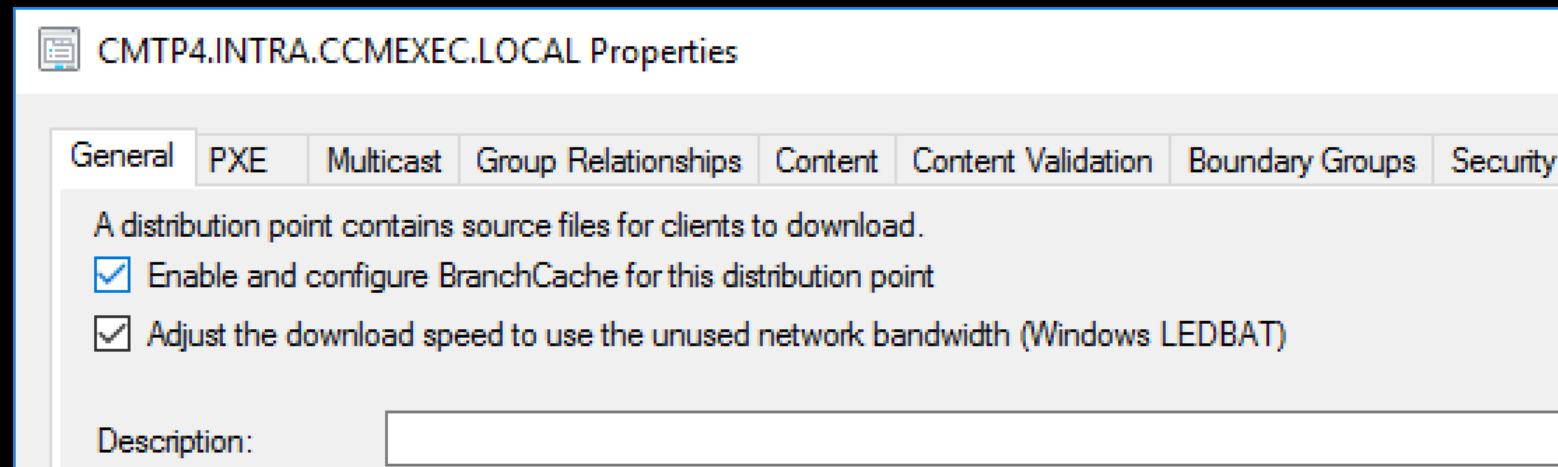
Proactive Maintenance

All rules Complete(3) In Progress(0) Action Needed(4)

Rule	Last Run Time	Progress
Boundary groups with no assigned site s...	7/18/2018 3:19 PM	Action needed
Boundary groups with no members	7/18/2018 3:19 PM	Action needed
Distribution points not serving content t...	7/18/2018 3:19 PM	Action needed
Enable WSUS Cleanup	7/18/2018 3:19 PM	Completed
Expired Updates	7/18/2018 3:19 PM	Completed
Unused boot images	7/18/2018 3:19 PM	Completed
Unused configuration items	7/18/2018 3:19 PM	Action needed

Enable distribution points to use network congestion control

- Adjust the download speed between distribution points and clients to use unused network bandwidth by enabling the Windows Low Extra Delay Background Transport (LEDBAT) feature.
- Requires Windows Server CB 1709 or later or Server 2016 with July 2018 CU
- Hotfix release 2018-10-25 fixes issues with LedBat and SCCM

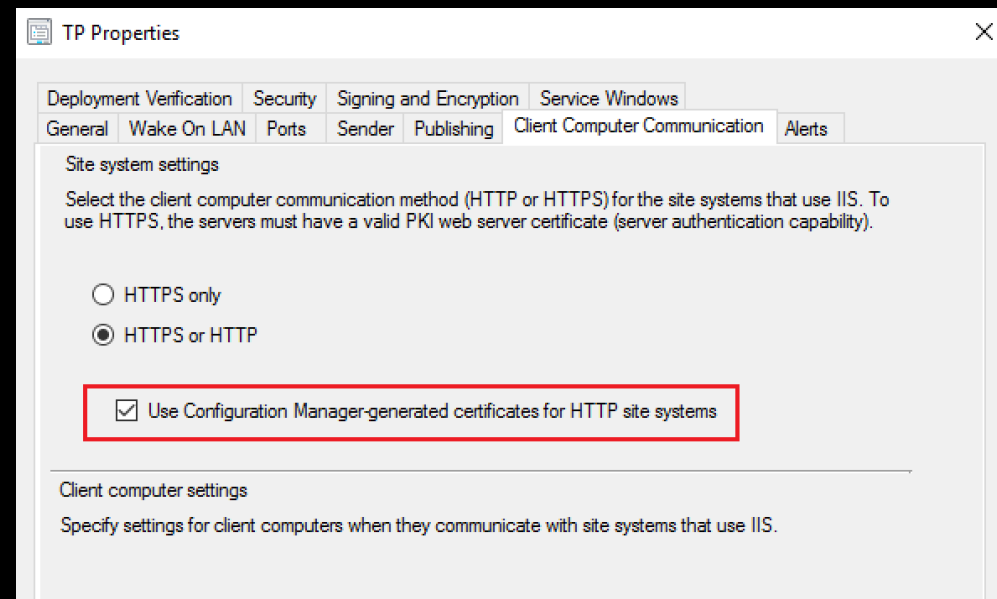


Avoiding 'SUP Meltdown'

- That issue resulted in eye-watering amounts of traffic from clients to WSUS (or ConfigMgr SUP), as the clients all downloaded a large amount of metadata.
 - Windows LEDBAT can help with that, by backing off in the event of latency increases caused by all this excess traffic
 - You need to manually enable LEDBAT for that port. Once enabled, the WU Metadata downloads will take a back seat to any other non-LEDBAT traffic.
- Enable it :
- `Set-NetTCPSetting -SettingName InternetCustom -CongestionProvider LEDBAT New-NetTransportFilter -SettingName InternetCustom -LocalPortStart 8530 -LocalPortEnd 8530 -RemotePortStart 0 -RemotePortEnd 65535`

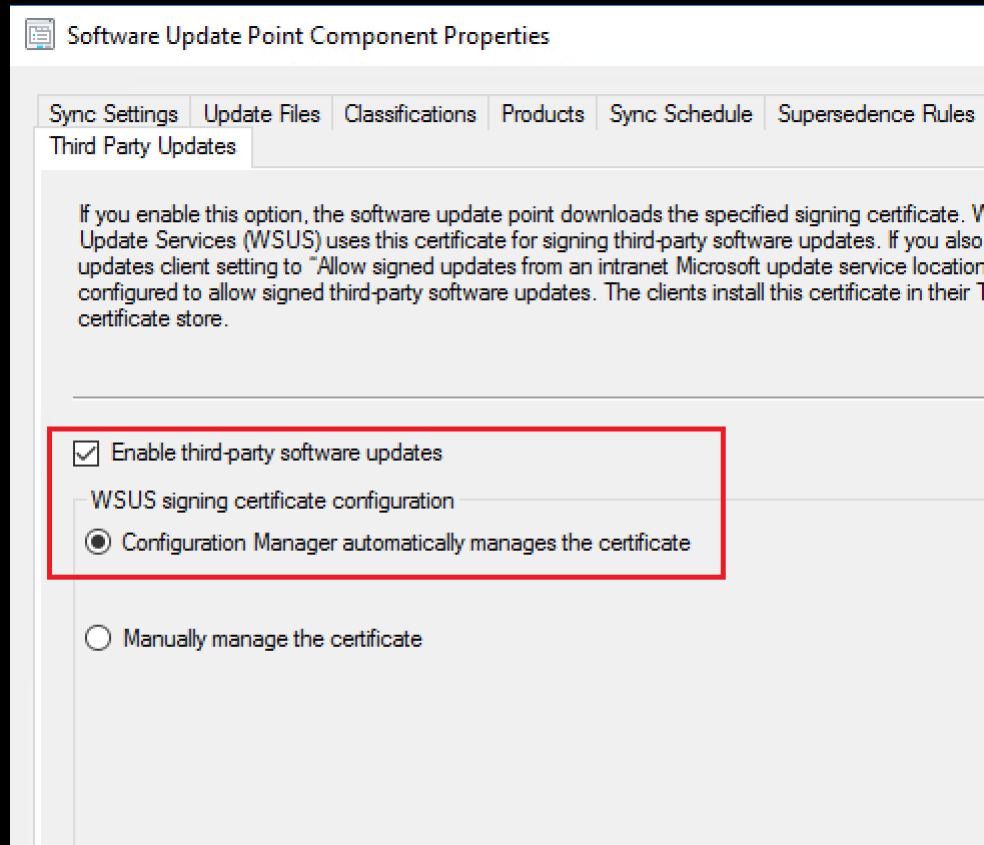
Improved secure client communications

- Improvements to how clients communicate with site systems. This includes improvements for cloud domain joined clients.
- There are two primary goals for these improvements:
 - You can secure client communication without the need for PKI server authentication certificates.
 - Clients can securely access content from distribution points without the need for a network access account.



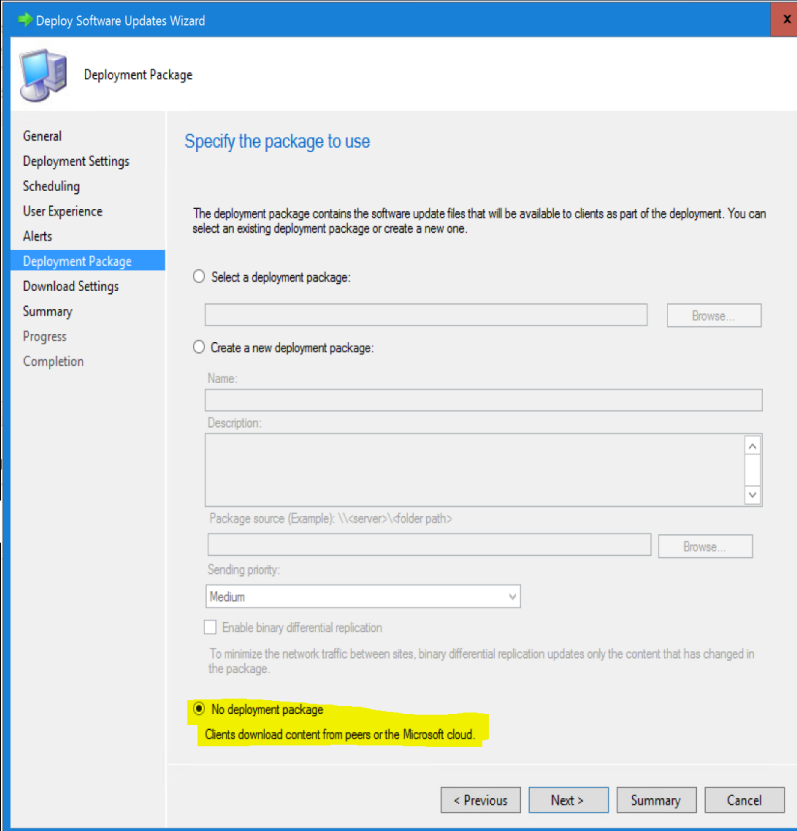
Configuration Manager WSUS Signing certificate

- Make it easier to manage 3rd party updates



Software updates improvements

- Deploy software updates without content
 - Think Cloud Management Gateway connected clients
 - Content will be delivered from Microsoft or from Peers
- New software updates compliance report
 - Healthy Clients vs Total Clients
 - Compliance Overview
 - Top 5 Non-Compliant by Article ID
- 3rd party update support
- The WSUS cleanup wizard now declines updates according to the supersedence rules defined on point component properties.



The screenshot shows the 'Deploy Software Updates Wizard' window, specifically the 'Deployment Package' step. The window title is 'Deploy Software Updates Wizard' and the subtitle is 'Deployment Package'. The left sidebar contains a list of steps: General, Deployment Settings, Scheduling, User Experience, Alerts, Deployment Package (selected), Download Settings, Summary, Progress, and Completion. The main area is titled 'Specify the package to use' and contains the following text: 'The deployment package contains the software update files that will be available to clients as part of the deployment. You can select an existing deployment package or create a new one.' There are two radio buttons: 'Select a deployment package:' and 'Create a new deployment package:'. The 'Select a deployment package:' option is selected, and it has a text box and a 'Browse...' button. The 'Create a new deployment package:' option is unselected, and it has a 'Name:' text box, a 'Description:' text box with a vertical scrollbar, a 'Package source (Example: \\server\<folder path>)' text box with a 'Browse...' button, and a 'Sending priority:' dropdown menu set to 'Medium'. There is also an unchecked checkbox for 'Enable binary differential replication' with a note below it: 'To minimize the network traffic between sites, binary differential replication updates only the content that has changed in the package.' At the bottom, there is a highlighted radio button for 'No deployment package' with the text 'Clients download content from peers or the Microsoft cloud.' Below this are four buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

Third-party software updates

- HP catalog now integrated
- Prereqs
 - Enable client settings
- Third-party software updates

The screenshot displays the System Center Configuration Manager interface. A 'Third-Party Software Updates Wizard' dialog box is open, showing the 'General' tab with the title 'General information for this catalog subscription'. Below the title, it states: 'This wizard downloads the third-party software update catalog "HP Client Updates Catalog" from the location'. The wizard also includes sections for 'Download' (Review and approve) and 'Summary'. In the background, the main console shows the 'Software Library' pane with 'All Software Updates' selected. The main pane displays search results for 'All Software Updates' with 1000 items shown. A search filter is applied: 'AND Vendor HP Business Clients'. The results table is as follows:










Icon	Title	Vendor	Bulk
	HP hs3210 HSPA+ Mobile Broadband Drivers [1.1.1.11.A2]	HP Business Clients	
	Realtek Ethernet Controller Drivers [10.16.323.2017.A1]	HP Business Clients	
	Cyberlink Power Media Player for Workstations [14.0.1.7110.A1]	HP Business Clients	
	Cyberlink Power2Go WKS [8.0.3.7325.A1]	HP Business Clients	
	Intel PROSet/Wireless LAN Technology Driver For Windows 7 64 Bit. [20.10.1.3.A1]	HP Business Clients	
	Intel PROSet/Wireless LAN Technology Driver For Windows 10 [20.10.1.3.A1]	HP Business Clients	
	Intel Rapid Storage Technology Enterprise for Windows 10 [5.3.0.1388.A1]	HP Business Clients	
	NVIDIA Quadro Professional Driver Windows 10 (x64) [385.69.A1]	HP Business Clients	
	Intel PROSet/Wireless for Bluetooth Technology Driver for Windows 7 64 Bit	HP Business Clients	

Currently logged on user information is shown in the console

- Currently logged on user information is available to the IT Admin for communication and troubleshooting with the end-user.

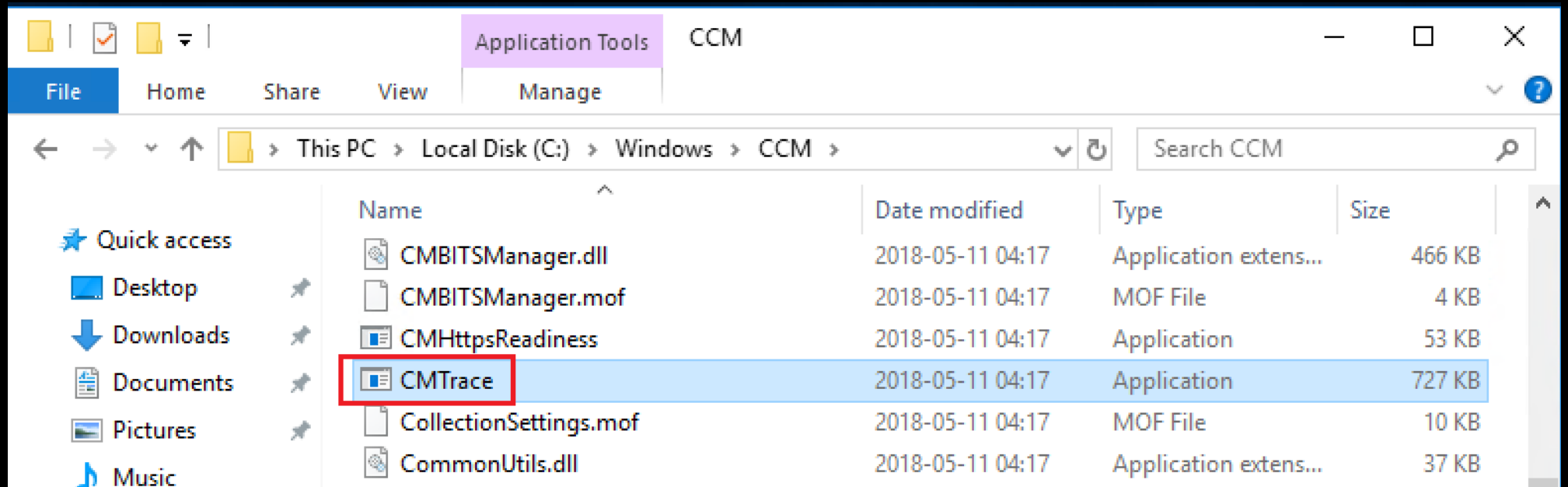
All Systems 32 items

Search

Icon	Name	Client Type	Client	Primary User(s)	Currently Logged on User	Site Code
	CMTP001	Computer	Yes	intra\bob		TP4
	CMTP002	Computer	Yes	INTRA\Bob,INT...		TP4
	CMTP2	None	No			TP4
	CMTP3	None	No			TP4
	CMTP4	Computer	Yes		INTRA\Administrator	TP4
	CMTP5	None	No			TP4
	CMTPDP	None	No			TP4
	CMTPSQL	Computer	Yes			TP4
	CMTPWIN1010	None	No			TP4

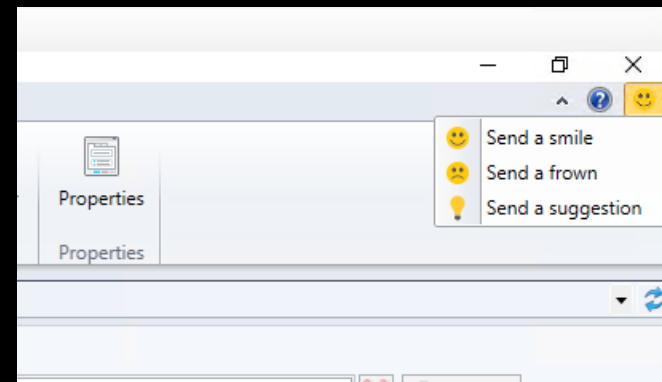
Client Tools: CMTrace

- CMTrace is now installed by default by client setup.
- CMTrace.exe can be found in the client installation directory (%WINDIR%\CCM\cmtrace.exe).



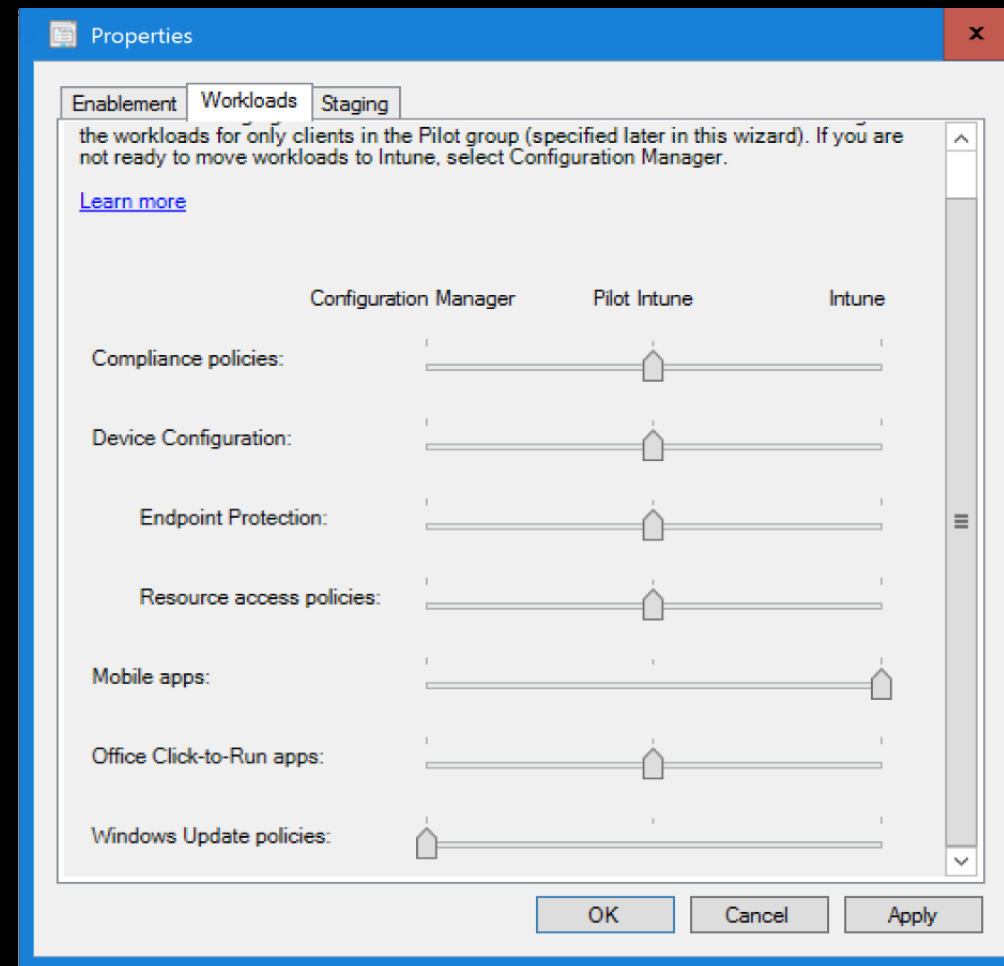
Send a Smile 😊

- Submit feedback from the Configuration Manager console
- Send a Smile now remembers your previous settings such as e-mail address, and if screenshots were enabled.
- Offline feedback is now supported; you can now save your feedback and submit from another machine by using the Offline Feedback Uploader tool:
- `cd.latest\SMSSETUP\Tools\UploadOfflineFeedback\UploadOfflineFeedback.exe`



CO-management – new workloads

- Sync MDM policy from Microsoft Intune
- Transition Office 365 workload

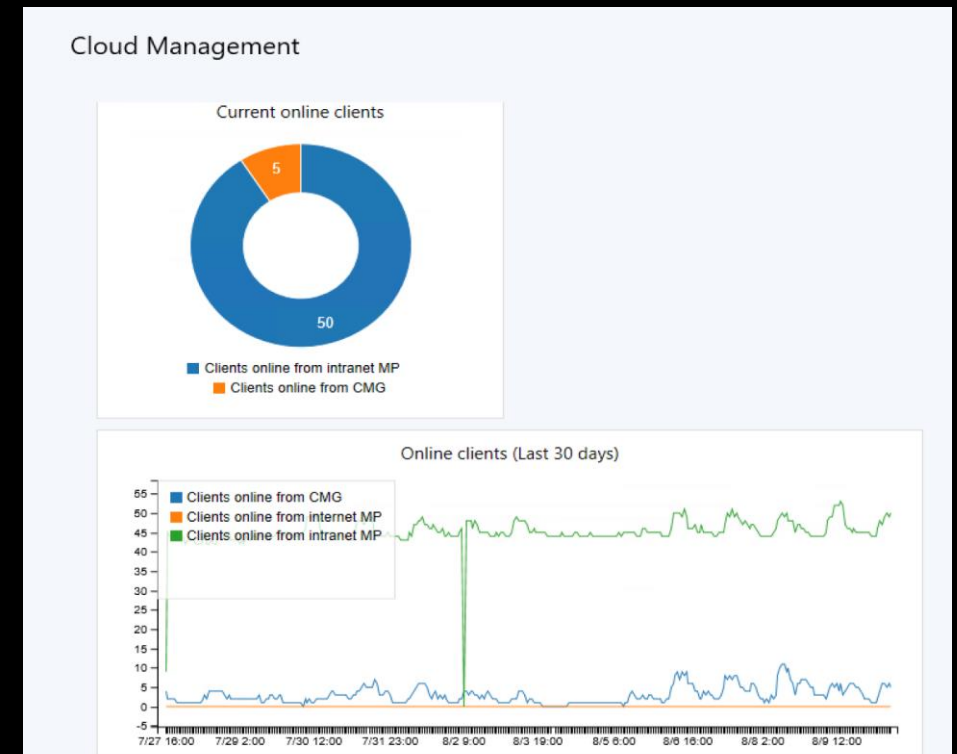
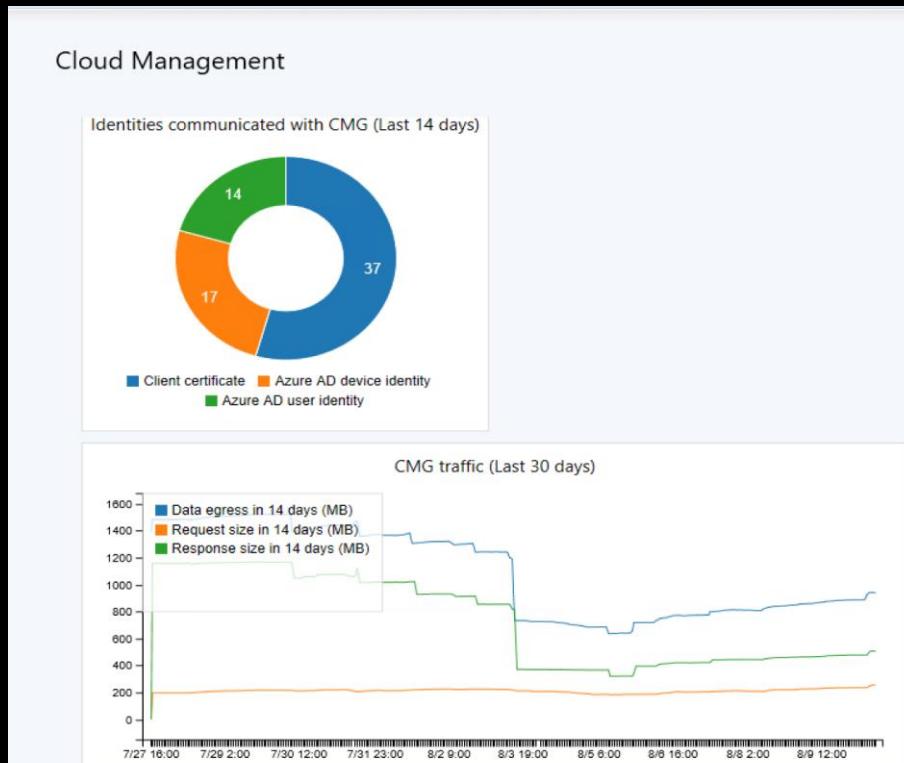


Cloud management gateway

- Client install command line clarifications
- The following command-line properties are required in all scenarios:
 - CCMHOSTNAME
 - SMSSITECODE
- The following properties are required when using Azure AD for client authentication instead of PKI-based client authentication certificates:
 - AADCLIENTAPPID
 - AADRESOURCEURI
- The following property is required if the client will roam back to the intranet:
 - SMSMP
- Download Client install content from a CMG
- Windows AutoPilot scenarios don't need a cloud distribution point or on-premises distribution point configured to Allow clients to connect anonymously.
- Trusted Root certificate no longer required when using AAD auth
- The following features now support use of the Azure U.S. Government Cloud:
 - Onboarding the site for Cloud Management through [Azure Services](#)
 - Deploying a [cloud management gateway with Azure Resource Manager](#)
 - Deploying a [cloud distribution point with Azure Resource Manager](#)

Cloud management dashboard

- Centralized view for cloud management gateway usage and data.
- CMG connection analyzer for real-time monitoring and troubleshooting.

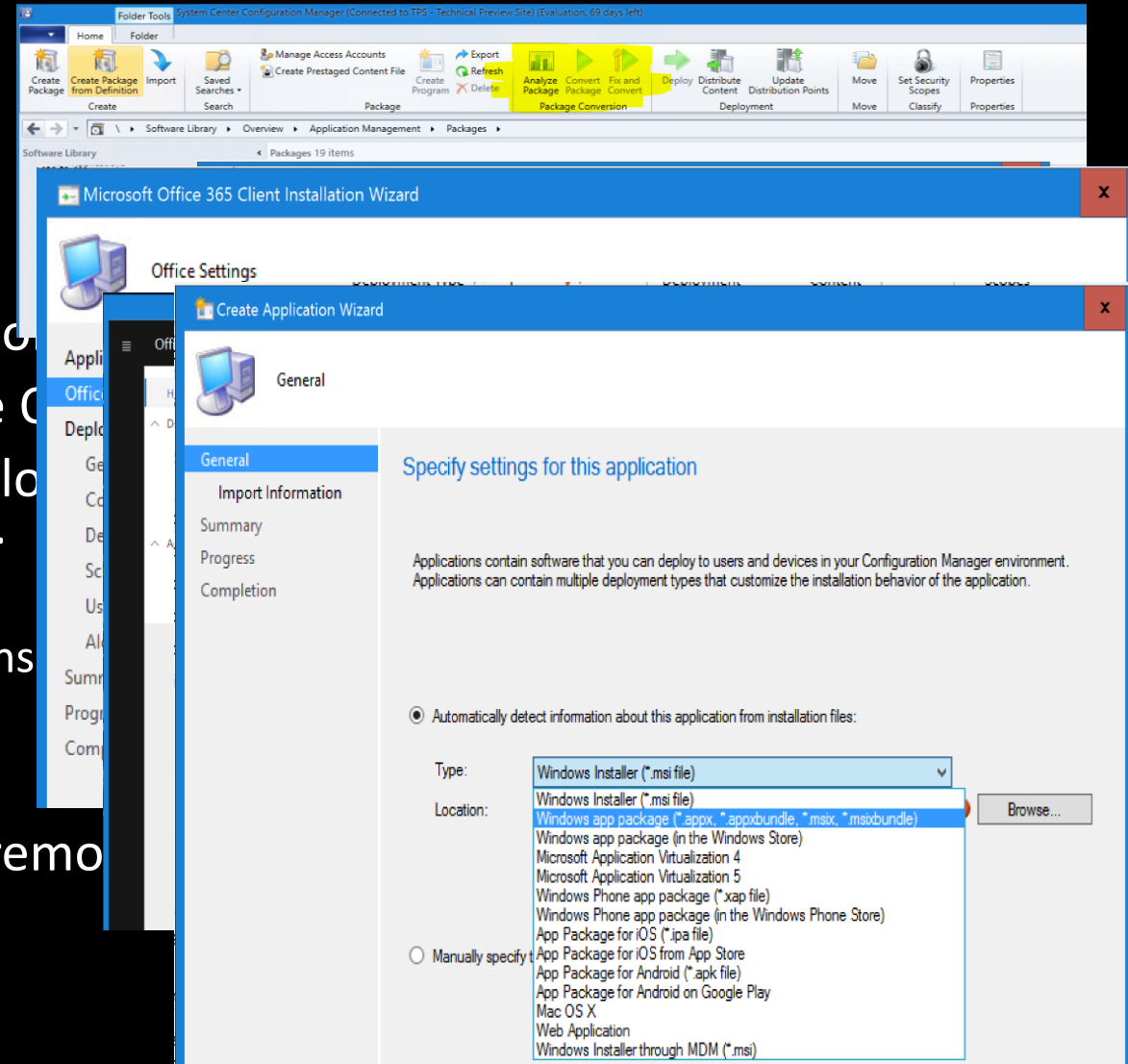


Cloud Distribution Point

- Support for Azure Resource Manager
 - Enterprise subscriptions and “pay-as-you go” only
- This capability does not enable support for Azure Cloud Service Providers (CSP). The cloud distribution point deployment with Azure Resource Manager continues to use the classic cloud service, which the CSP does not support.
- Same as CMG!

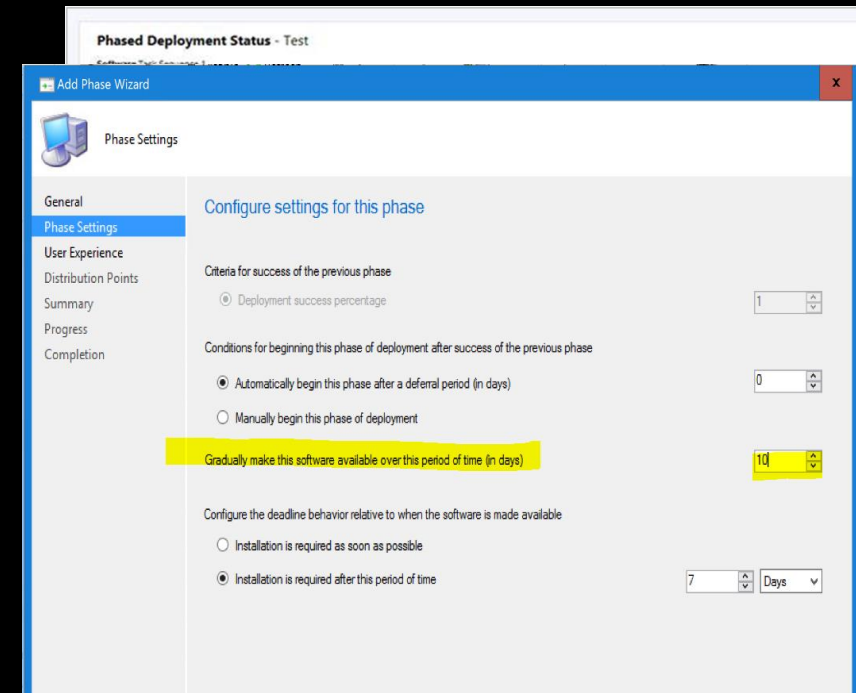
Application improvements

- Package Conversion Manager
 - Finally integrated in the console
 - Convert classical packages to Apps
- Provision Windows app packages for all users of a device
- Office Customization Tool integration with the Configuration Manager
- Configuration Manager now supports the deployment of application packages in the MSIX (.msix) and app bundle (.msixbundle) formats.
- Requirements
 - A Windows 10 client running at least Windows Ins
 - A Windows app package in the MSIX format
- Uninstall application on application approval remo



Improvements to phased deployments

- Phased deployment status
- Phased deployment of applications
- Gradual rollout during phased deployments
- For applications as well!

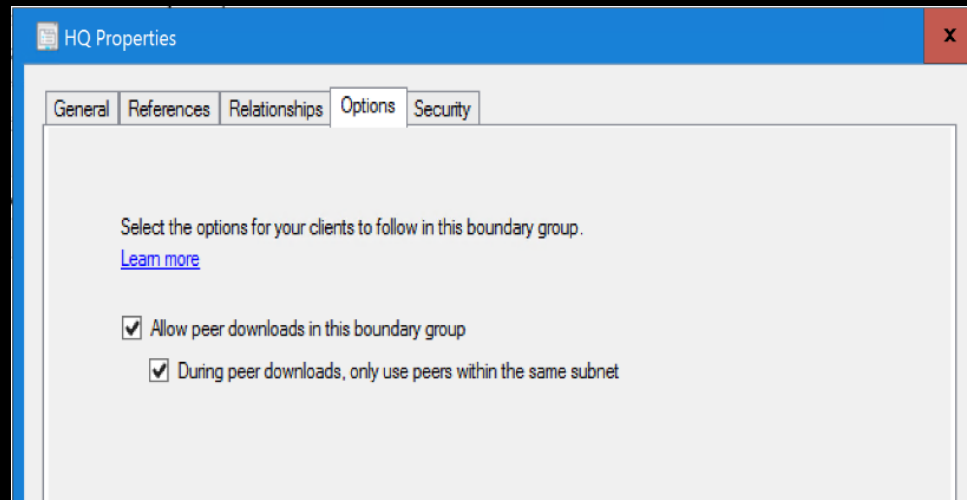


Software Center improvements

- Application catalog roles are no longer required to display user-available applications in Software Center
- Application catalog website link
- Application catalog role no longer required
- Custom tab for web page
- Maintenance Window

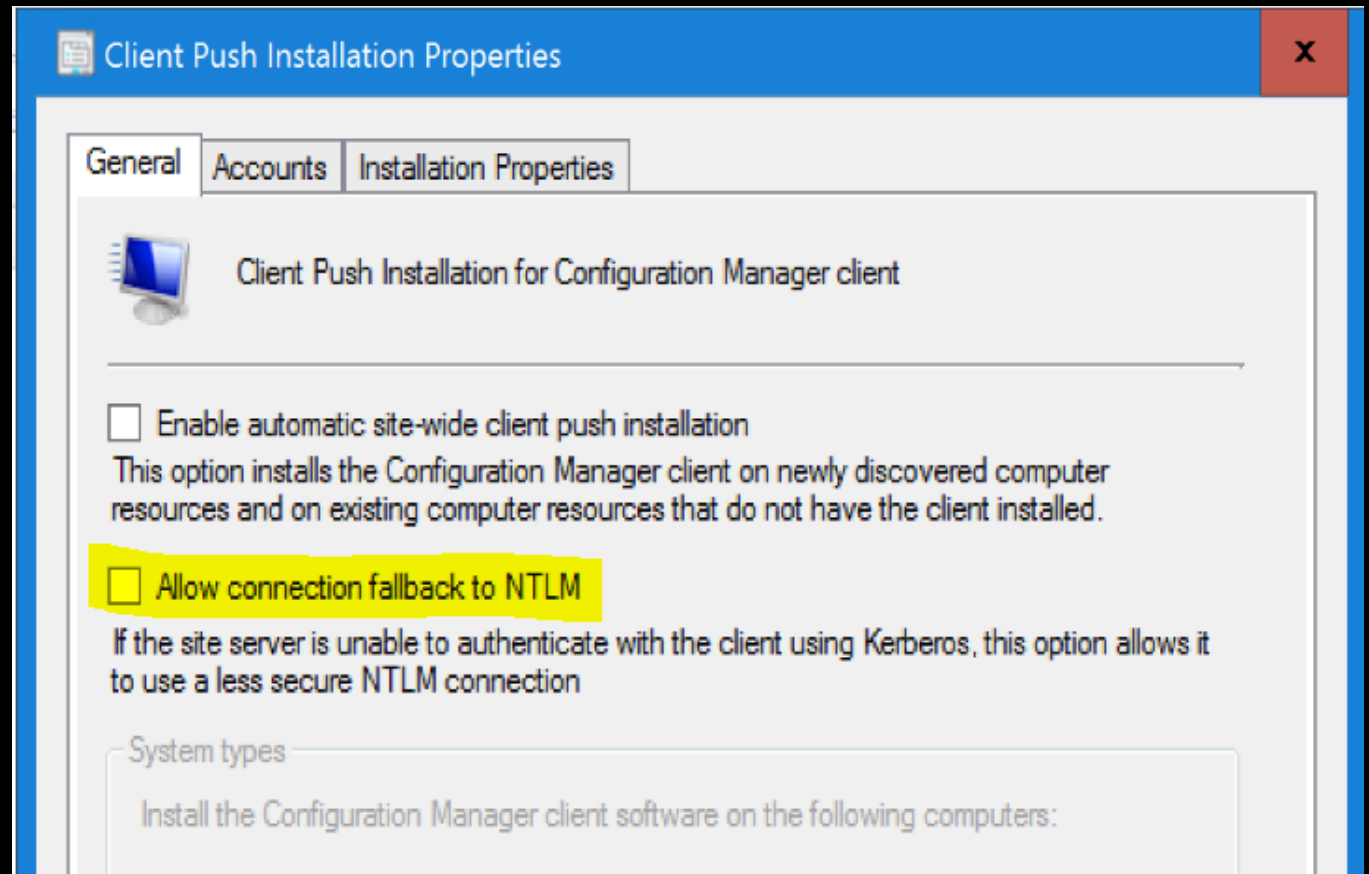
Boundary group options for peer downloads

- Allow peer downloads in this boundary group
- During peer downloads, only use peers within the same subnet



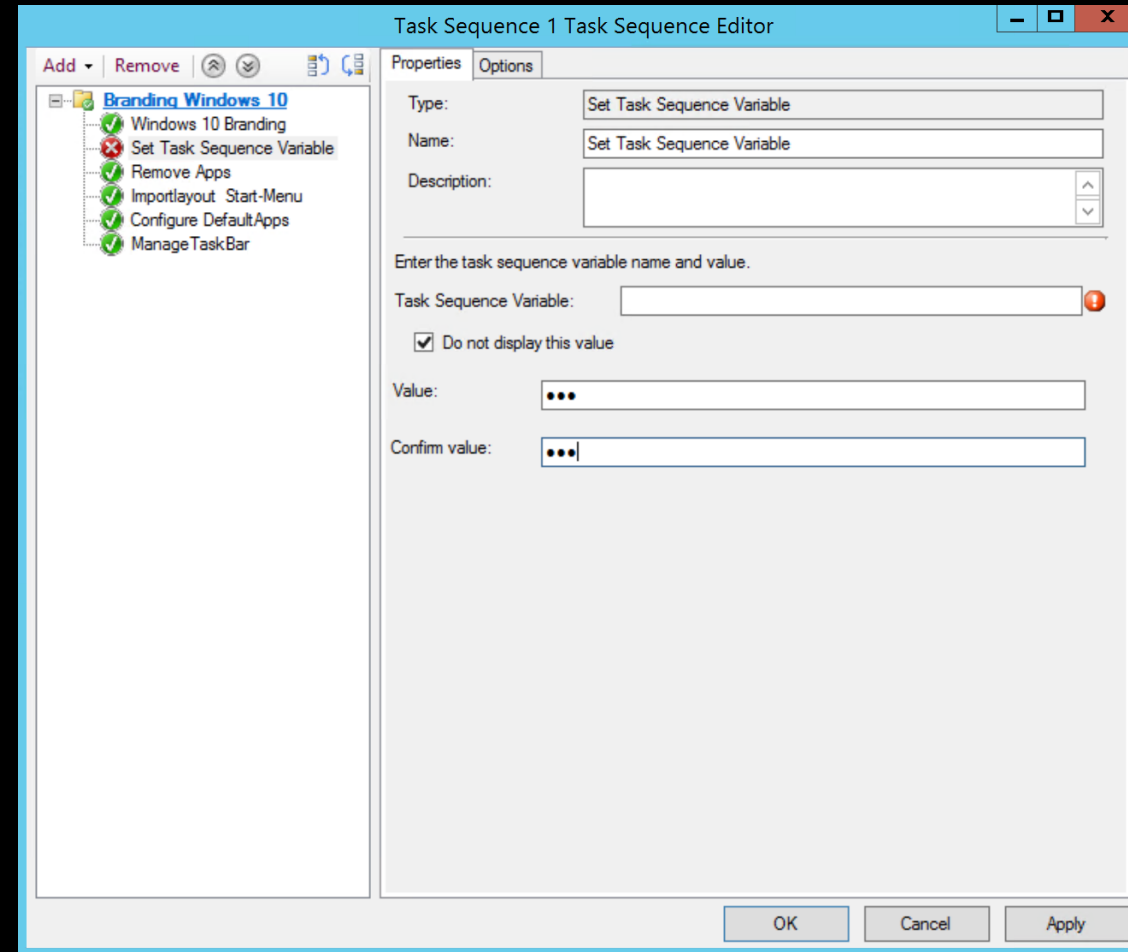
Client Push security improvements

- Configure Kerberos mutual authentication by not allowing fallback to NTLM before establishing the connection during the client push process



OS Deployment improvements

- Do not display value of TS variable
- Mask program name during Run Command Step of a task sequence using task sequence variable **OSDDoNotLogCommand**
- Full Disk encryption option both in Pre-provision and enable bitlocker step

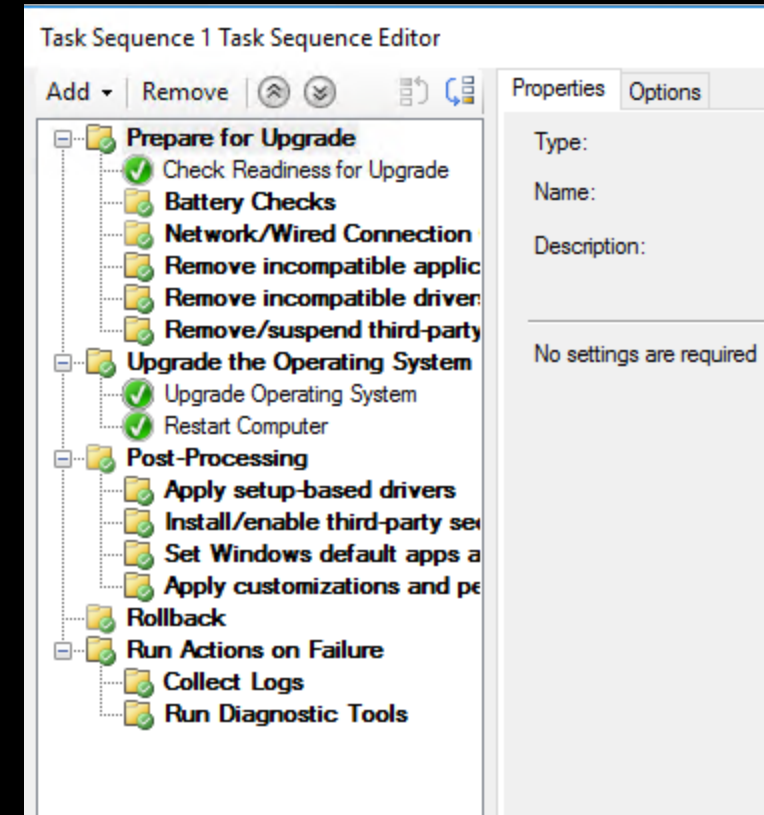


Improvements to PXE-enabled distribution points

- PXE-enabled distribution points configured without Windows Deployment Services (WDS) now have improved and configurable logging as well as ease of deployment features such as auto-configured inbound firewall rules
- **No More WDS!**

Improvements to Windows 10 in-place upgrade task sequence

- New groups to handle pre-flight checks and actions on failure!
- But only groups, no scripts or content we have to create that on our own



Move Content library

- The content library can now be move of the Site Server to an alternative location
- Enabled for Site Server high availability
- The DP role cannot be installed on the Primary Site Server if you want to move the Content Library

The screenshot displays the management interface for 'eKlient i Samverkan'. At the top, a table lists site items. The first item is 'EK1 - eKlient i Samverkan', which is 'Site Active' with 'Site Code' 'EK1'. A context menu is open over this item, listing various actions. The 'Manage Content Library' option is highlighted with a red box. Below the table, the 'eKlient i Samverkan' properties are shown. The 'General' section lists site details: Site Code: EK1, Server Name: SCCM01.eklient.lab, Install Directory: d:\ConfigMgr, and Build Number: 8692. The 'Content Library' section, also highlighted with a red box, shows: Location: (blank), Status: Complete, and Move Progress (%): 100.

Icon	Name	Type	Server Name	State	Site Code	Parent Site Code
	EK1 - eKlient i Samverkan			Site Active	EK1	

- Add Site System Roles
- Create Site System Server
- Create Secondary Site
- Retry Secondary Site
- Recover Secondary Site
- Upgrade
- Show Install Status
- Refresh F5
- Delete Delete
- Manage Content Library**
- Configure Site Components
- Client Installation Settings
- Site Maintenance
- Status Summarizers
- Status Filter Rules
- Set Security Scopes
- Properties

eKlient i Samverkan

General		Content Library	
Site Code:	EK1	Location:	
Server Name:	SCCM01.eklient.lab	Status:	Complete
Install Directory:	d:\ConfigMgr	Move Progress (%):	100
Build Number:	8692		

Site Server High Availability

- High availability for a standalone primary site server role is a Configuration Manager-based solution to install an additional site server in passive mode
- A site server in passive mode:
 - Uses the **same site database** as your site server in active mode.
 - Doesn't write data to the site database when it's in passive mode.
 - Uses the **same content library** as your site server in active mode.
 - The site server can't have the distribution point role.
 - There's no automatic failover

Important! Inventory values back to MB from GB

- Improvement to hardware inventory for large integer values.
- Changes the inventory data back to MB instead of GB.
- In 1710 the value was changed from MB to GB and now it changes back again

Product lifecycle dashboard

Product Lifecycle

Product category: All

Top 5 products past end-of-su

10
9
8

Lifecycle data for installed products

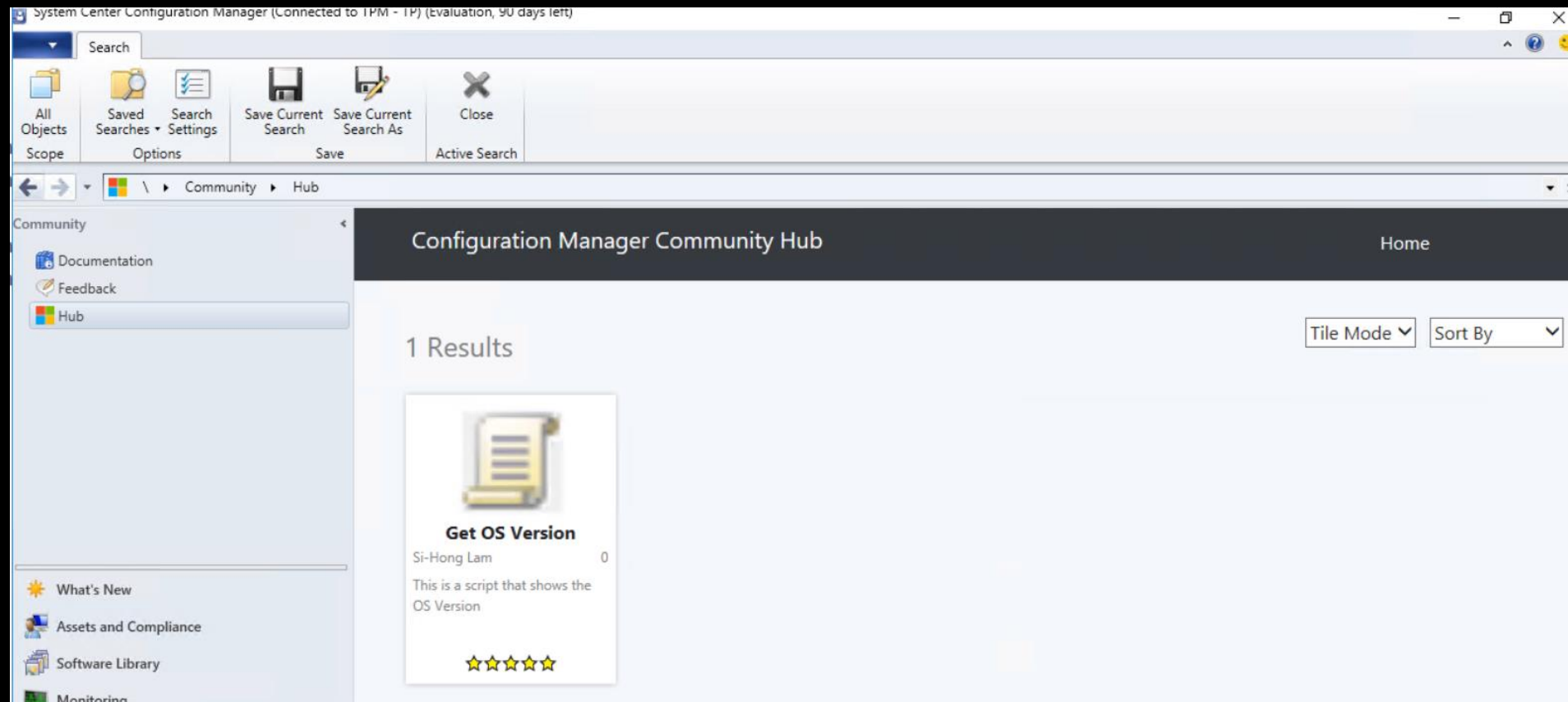
Support	Product name	Support time remaining	Number in environment	Mainstream support end date	Extended support end date	Ne
❗ Expired	Windows 10 Enterprise 1511	None	2	-	-	Lea
❗ Expired	Windows 10 1507	None	1	-	-	Lea
❗ Expired	Windows 10 Enterprise 1607	None	1	-	-	Lea
✅ Mainstream	Windows 10 Enterprise 1803	1.3 years	2	2019-11-12	-	Lea

The information shown in this dashboard is provided for your convenience and only for use internally within your company. You should not rely on this information to confirm update compliance. Be sure to verify the accuracy of the information provided to you, along with available support information by visiting <https://support.microsoft.com/lifecycle>.

What's new in 1807 TP

Community Hub

- Community will be able to share scripts, reports, CI and more!
- Links to the docs and link to the Configuration manager user voice site



E-mail approvals

- Defined per deployment
- Application approval/deny using link in E-mail using CMG
- If sent to a group, the link is only valid once



Hi there,

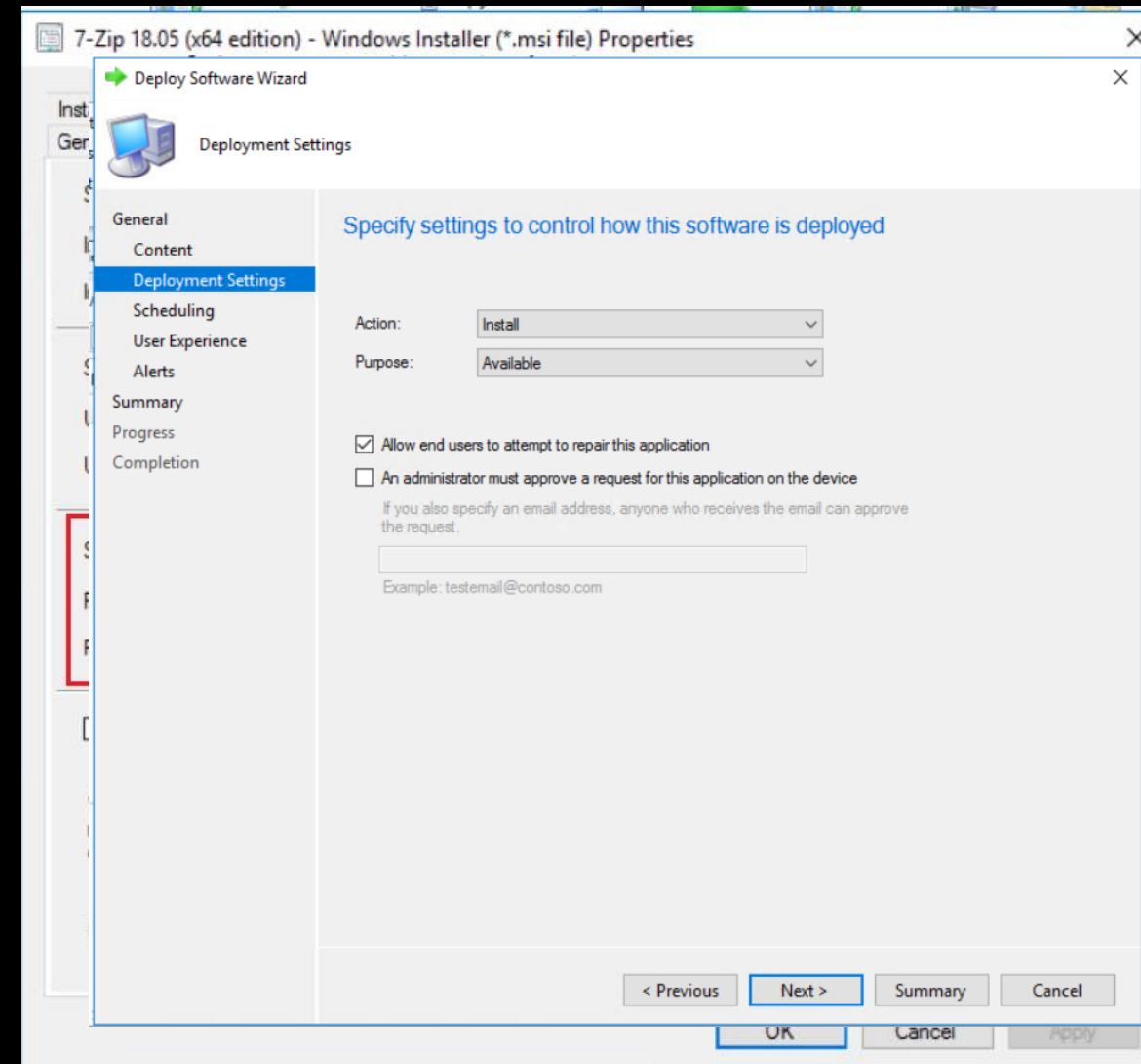
Administrator (R6117002DOM\Administrator) wants to install **app1** on the device titled **R6116997**.

Please click one of the buttons below to approve or deny this request.

[Approve](#) [Deny](#)

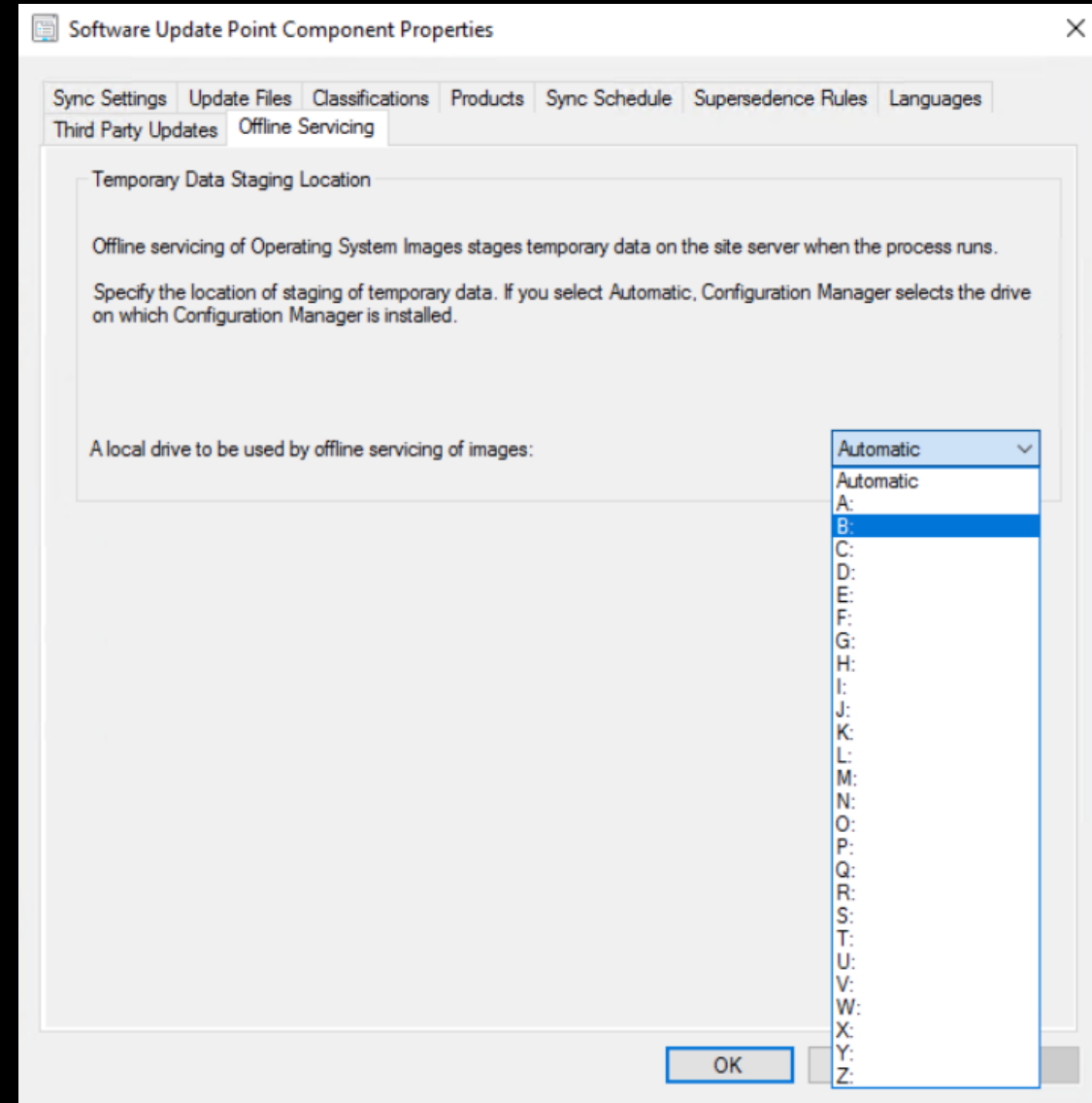
Repair option for applications!

- Command line for repair of applications, can be script, .msi etc.
- End users will be able to repair applications from Software Center
- **Awesome!**



More features in 1807 TP

- Client sync activity from Intune is synced to CM console
- Offline Servicing drive selection



What's new in 1808 TP

Configuration Manager 1808 TP

- Repair option for Applications now works in Software Center!
- Phased deployments for Software Updates



CCMEXEC TP

- Applications
- Updates
- Operating Systems
- Installation status**
- Device compliance
- Options

[Installation status](#) > Application Details



Orca

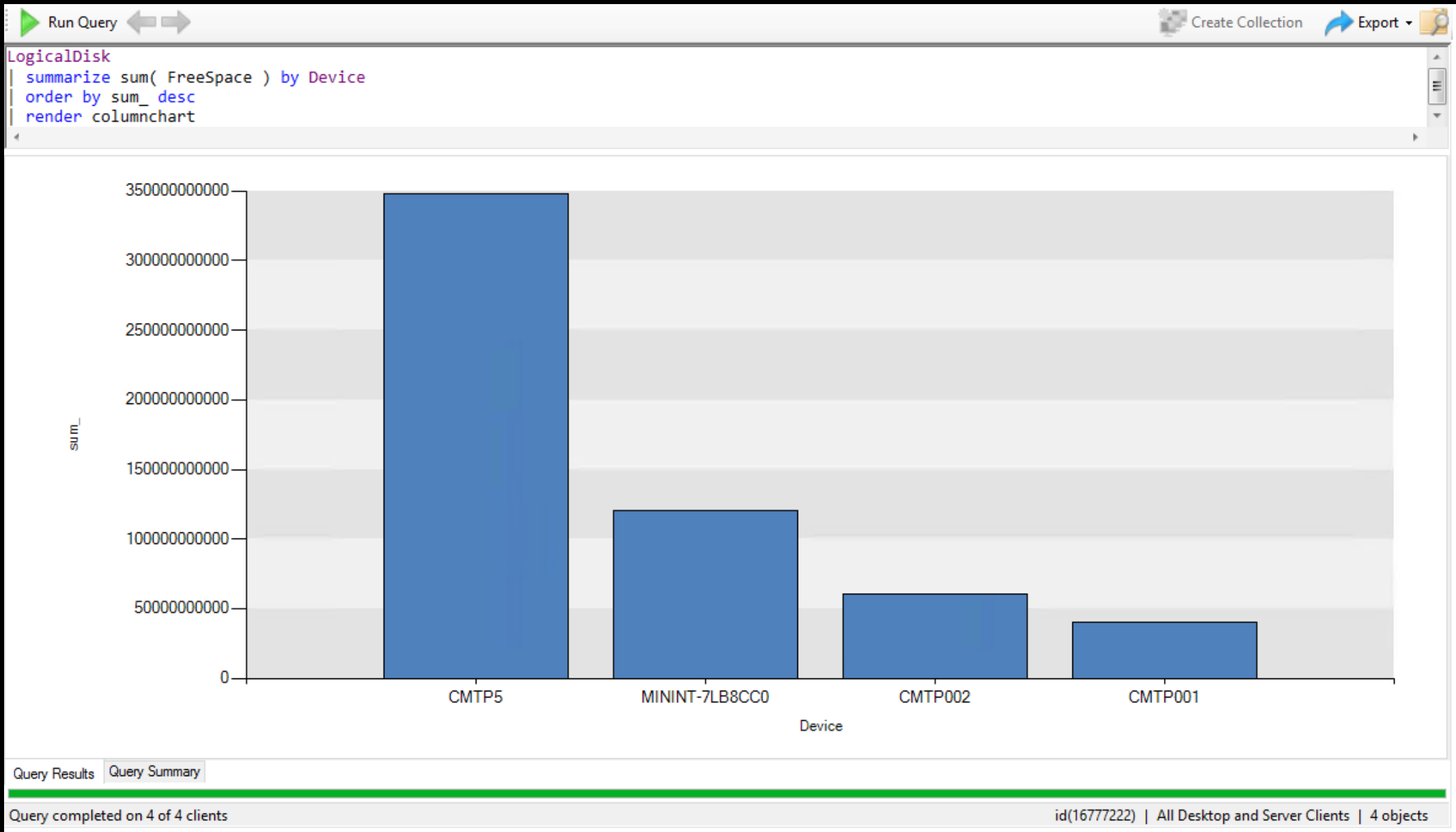
Uninstall

Repair

Status: **Installed**
Date published: Not specified
Restart required: Might be required
Download size: 1 MB
Estimated time: Not specified
Total components: 1
Date Modified: 2018-08-23

What's new in 1809 TP

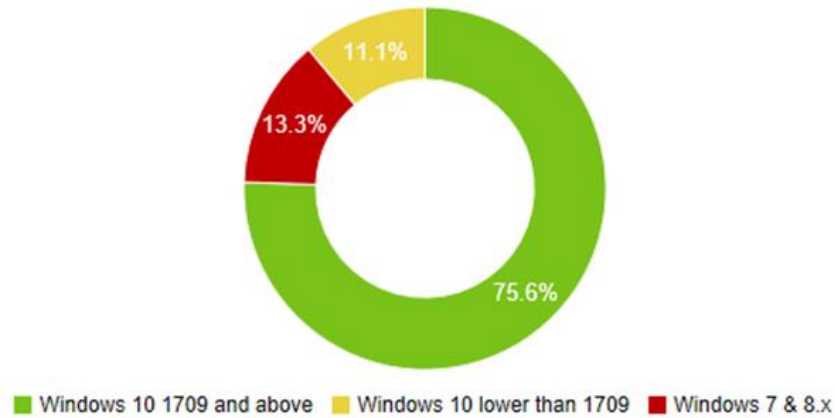
Cmpivot improvements



What's new in 1810 & 1810.2 TP

Improved - Co-Management dashboard

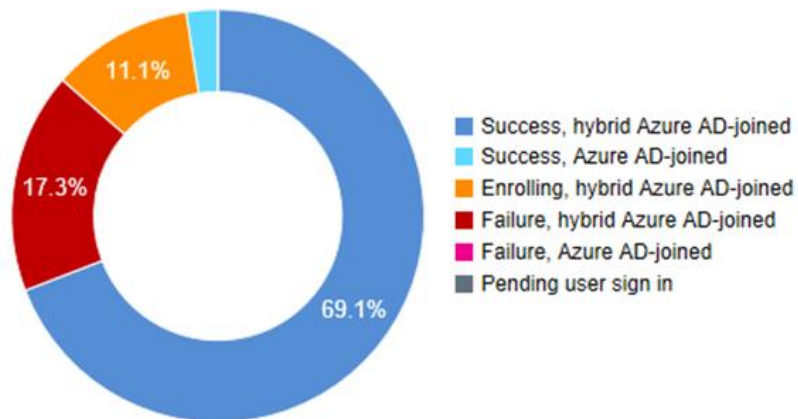
Client OS Distribution



Co-management Status

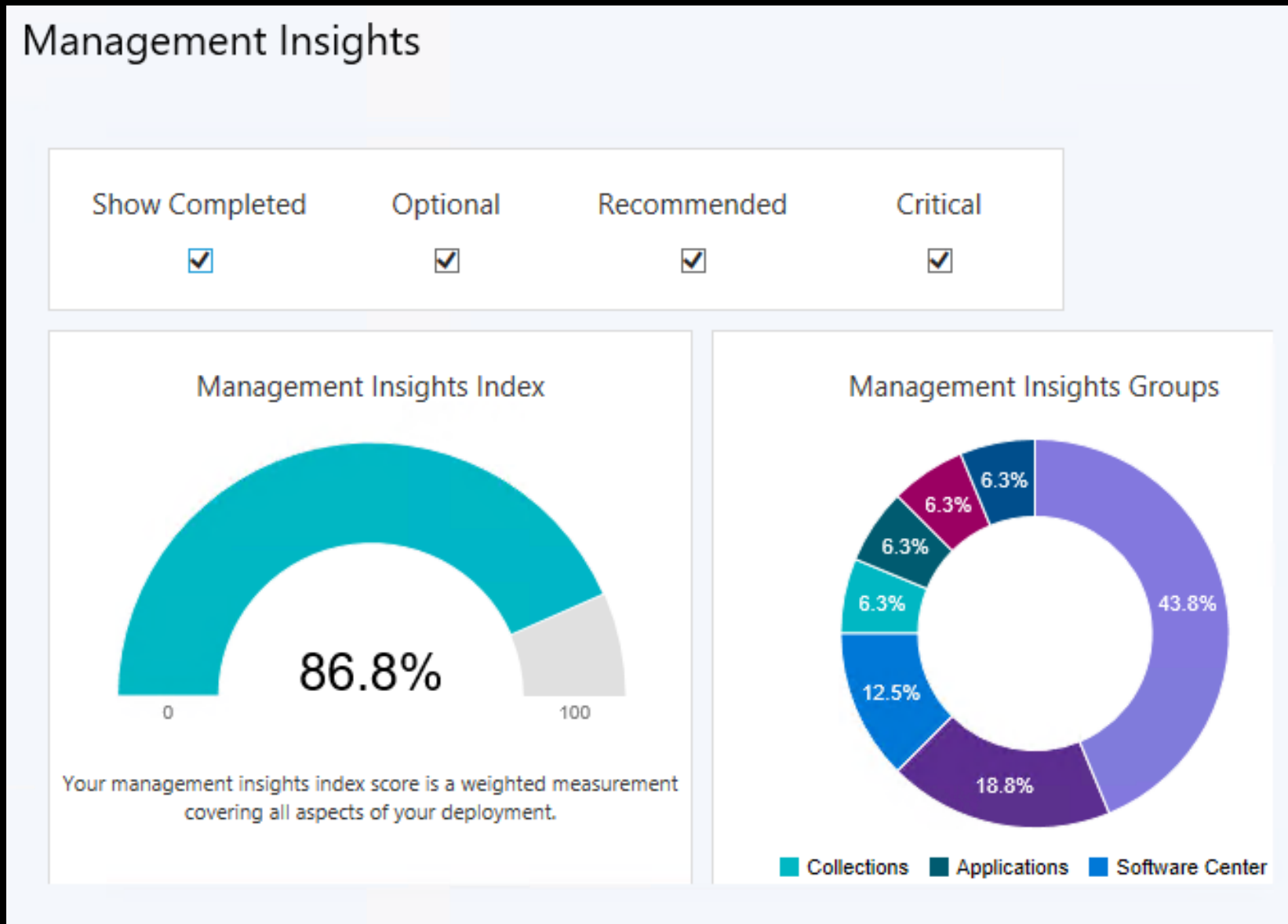


Co-management Enrollment Status

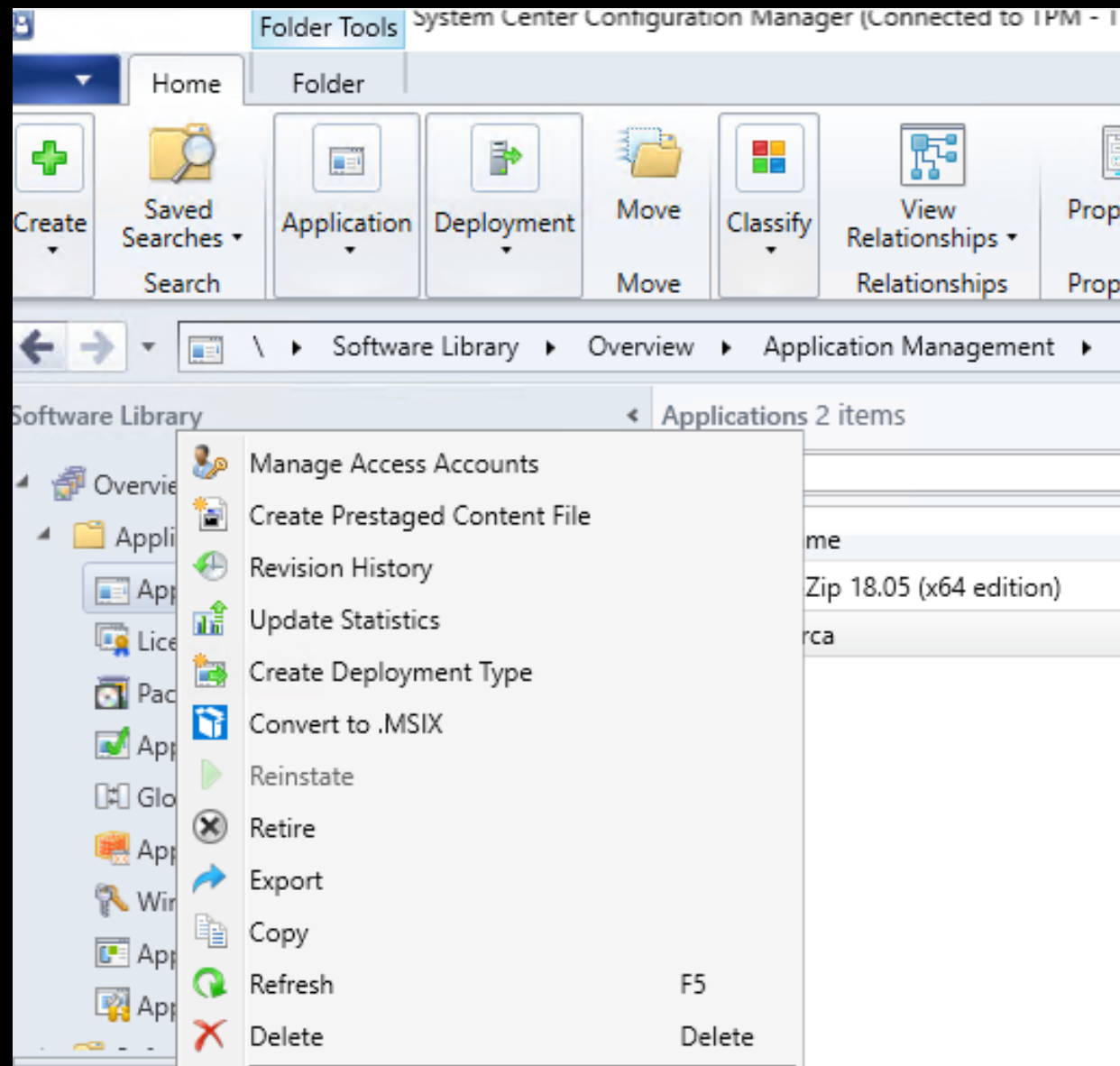


Count	Enrollment Error
5	The user canceled the operation
4	Element not found.
3	Undefined
2	Failed to authenticate user in Active Directory

Management Insight dashboard

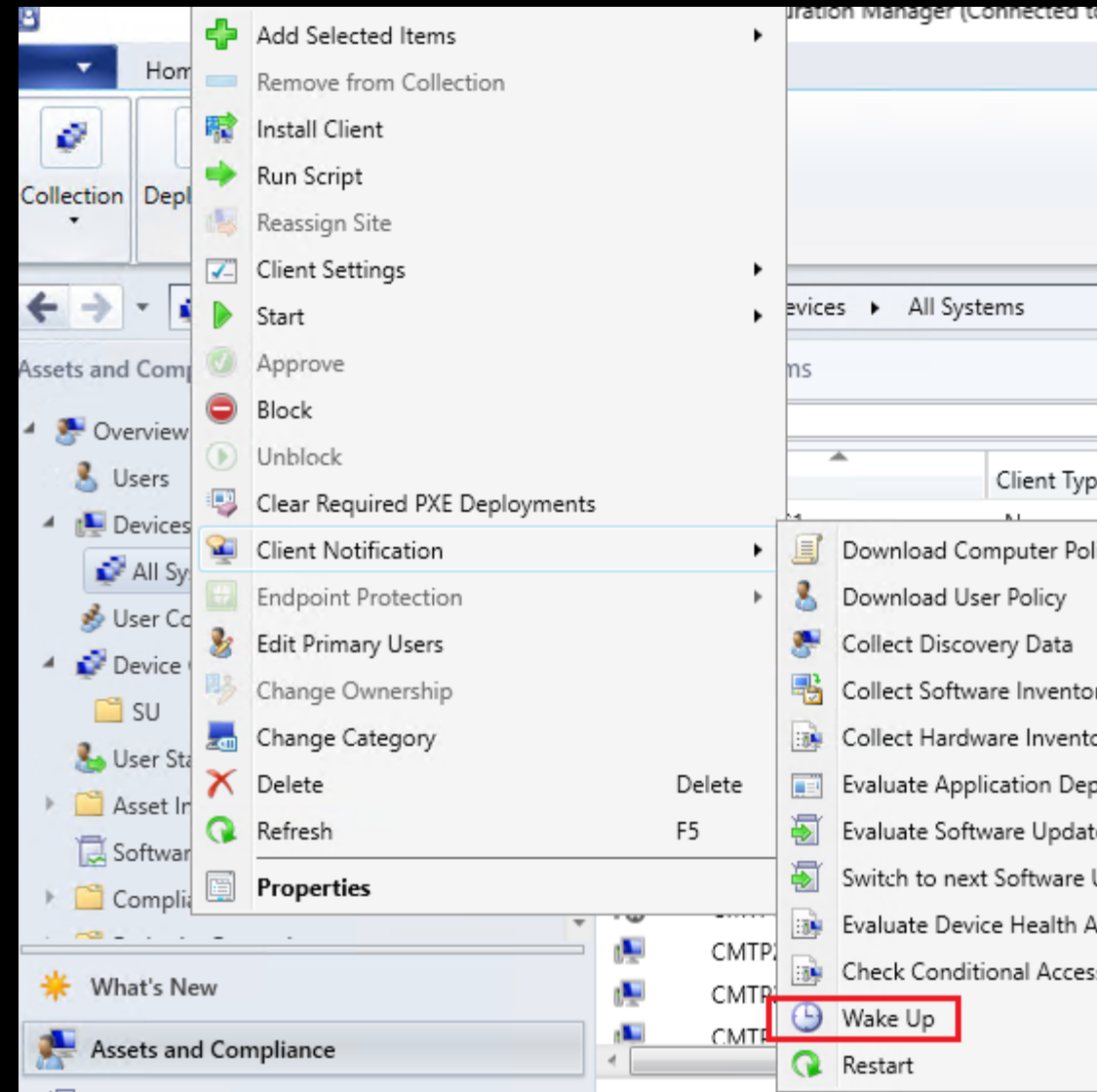


Convert MSI Apps -> MSIX using the Admin Console



Client Notification – Wake Up

- Uses Client notification channel
- Uses another computer on the same LAN
- This feature doesn't support the following network technologies:
 - IPv6
 - 802.1x network authentication



What is not in CB but in Technical Previews

Features in previous technical previews

The following features were released with previous versions of the Configuration Manager technical preview branch. These features remain available in later versions, but aren't yet available in the current branch.

Feature	Technical Preview version
Client-based PXE responder service	Tech Preview 1712
PXE network boot support for IPv6	Tech Preview 1706
Use Azure Active Directory	Tech Preview 1702
Compliance assessment for Windows Update for Business updates	Tech Preview 1702
OData endpoint data access	Tech Preview 1612
Improvements to Asset Intelligence	Tech Preview 1608
End users can install apps from the Company Portal	Tech Preview 1605

Share your ideas

<http://microsofttintune.uservoice.com/>

<http://configurationmanager.uservoice.com/>

