Configuration Manager 180x and then some!

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Microsoft
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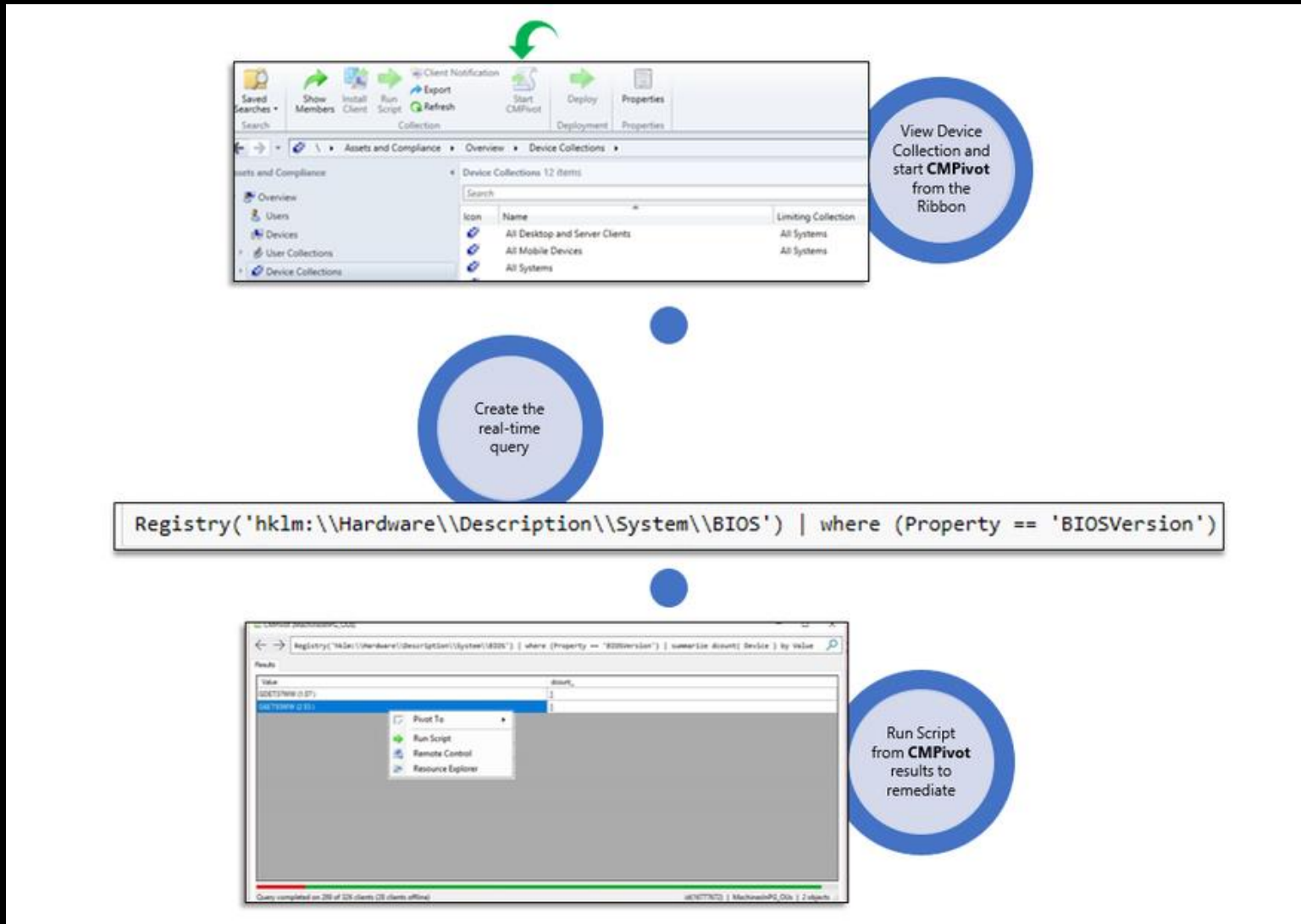
2018

Modern
Workplace

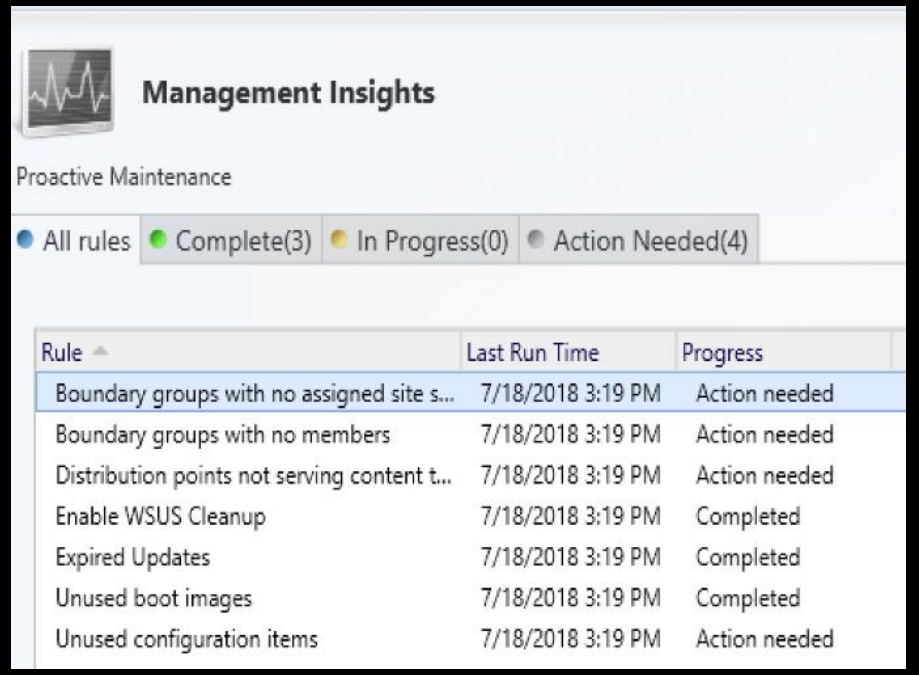
CMPivot – No more “SMS”!

- 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.



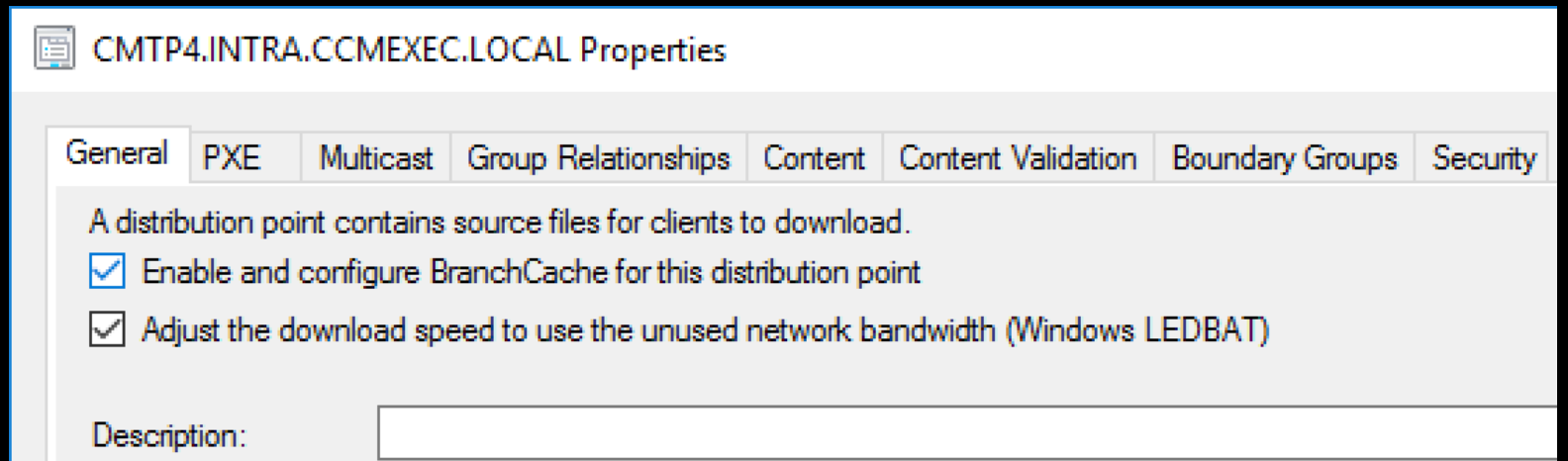
Management insights for proactive maintenance

- 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



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



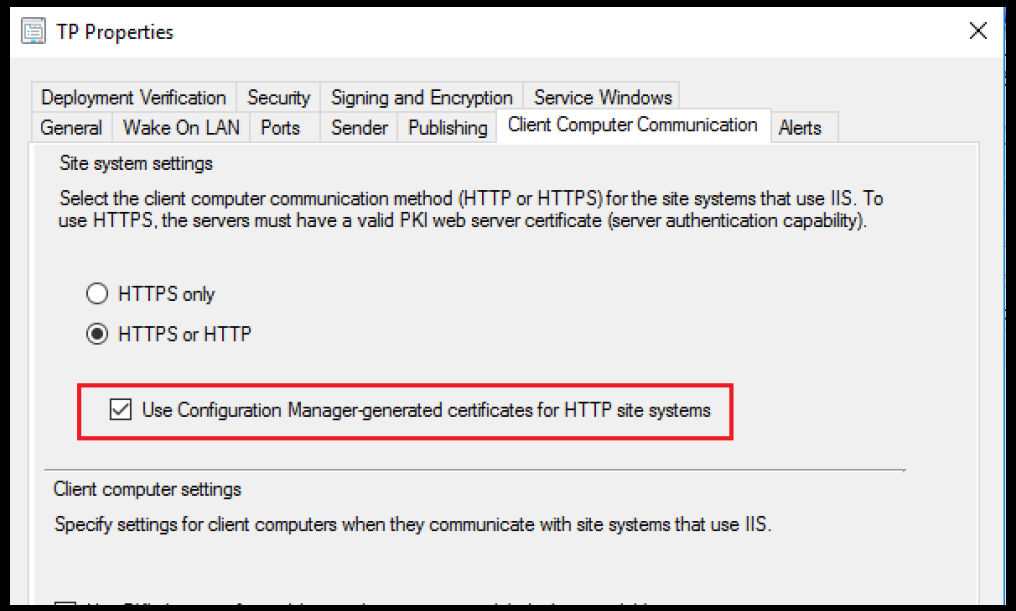
Avoiding ‘SUP Meltdown’

- 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

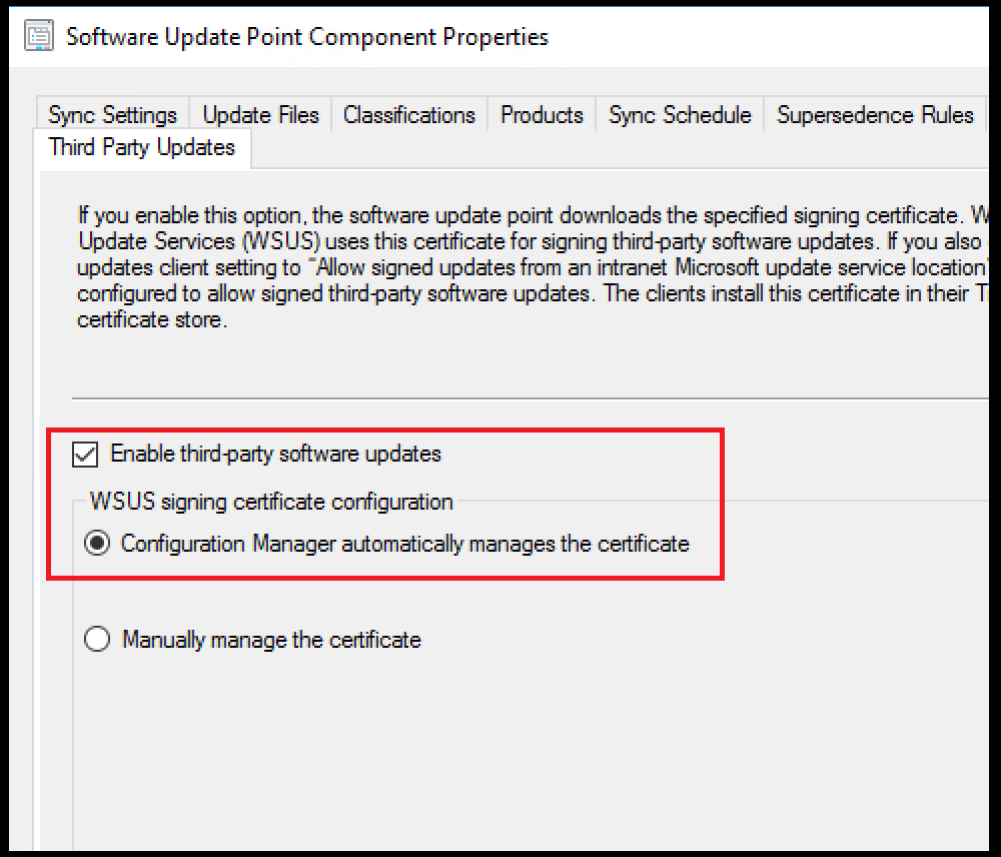
- Improvements to how clients communicate with site systems. This includes improvements for cloud domain joined clients.

- 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.



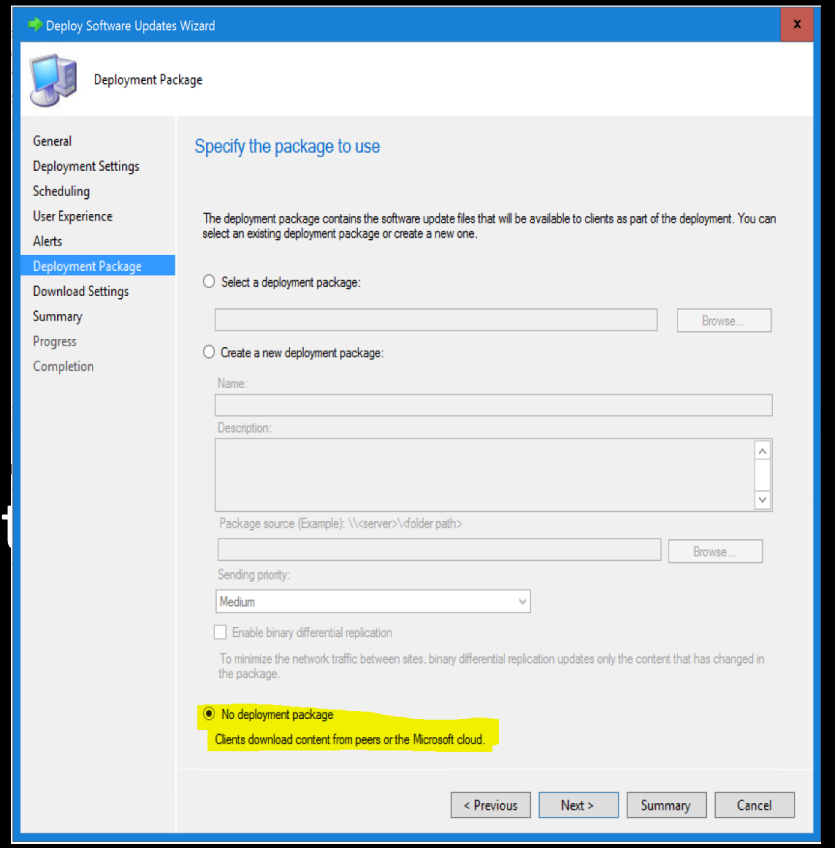
Configuration Manager WSUS Signing certificate

- Make it easier to manage 3rd party updates



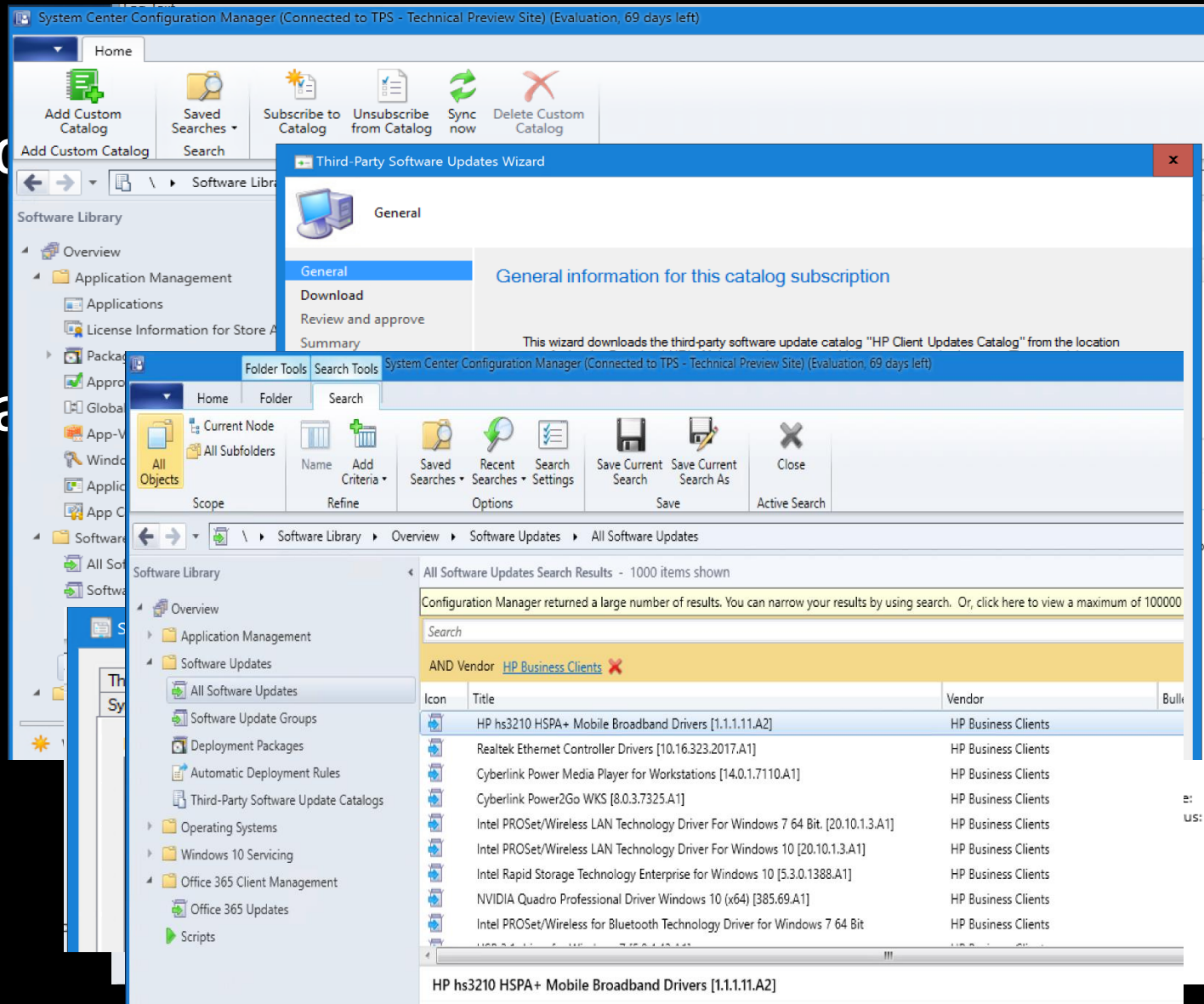
Software updates improvements

- 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 t
  according to the superseedence rules defined on
  point component properties.



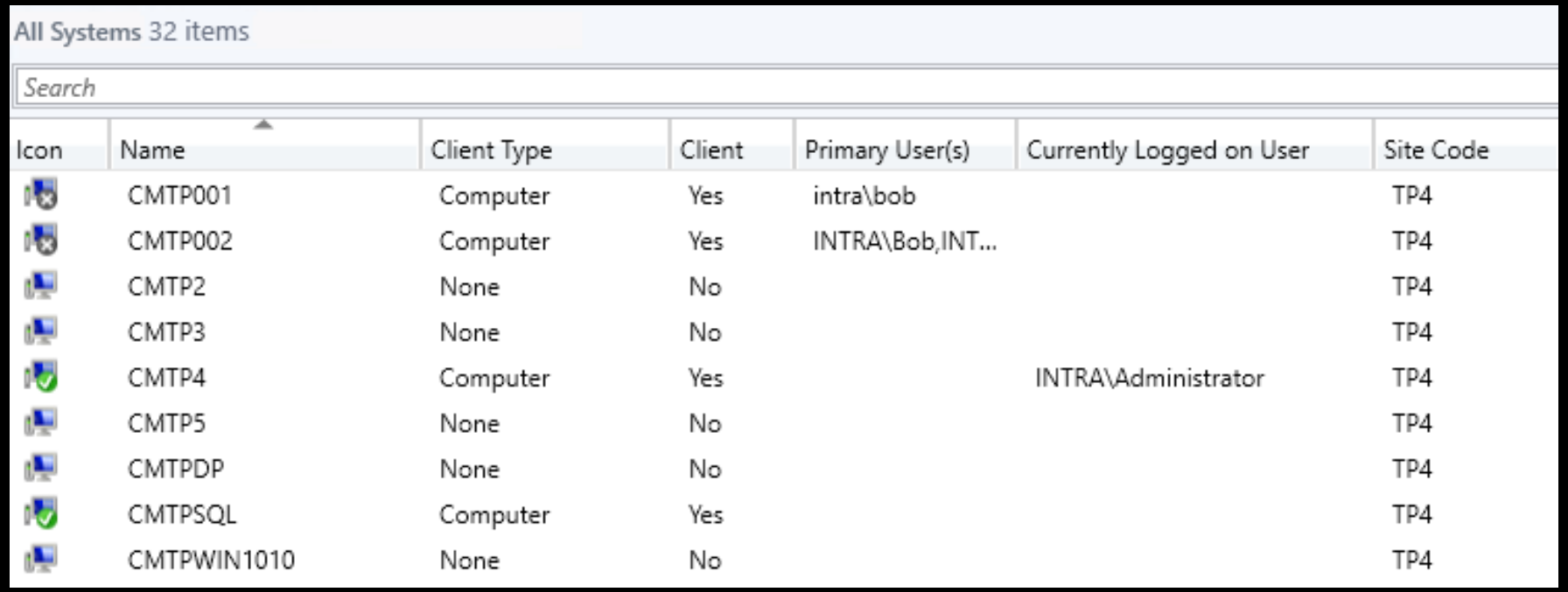
Third-party software updates

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



Currently logged on user information is shown in the console

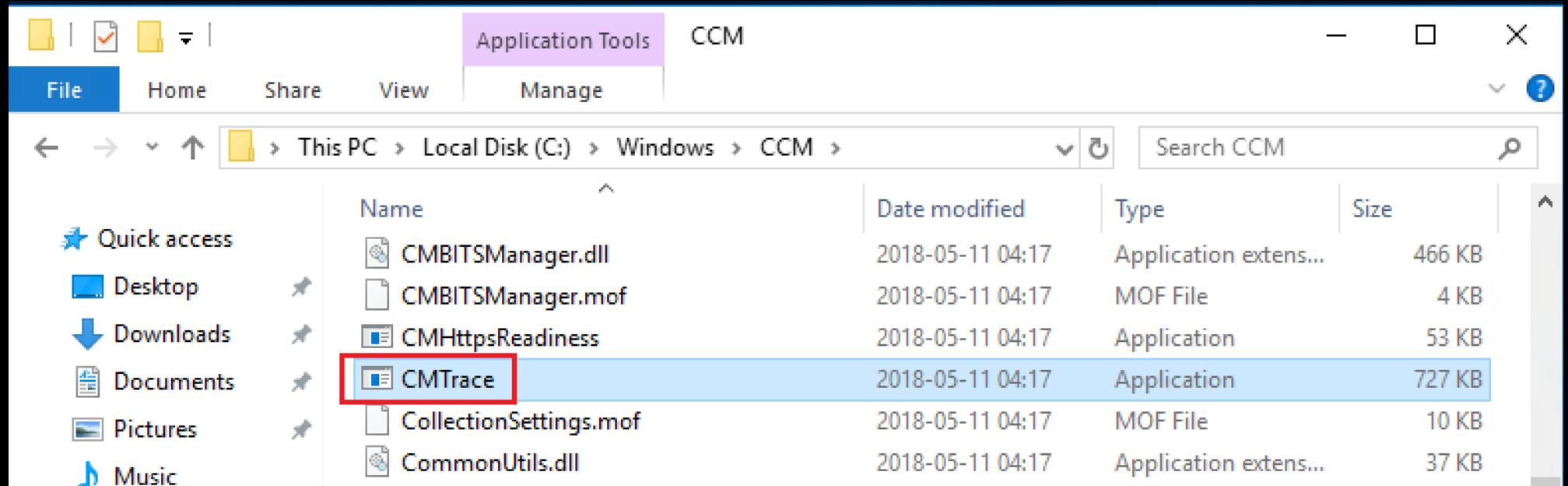
- Currently logged on user information is available to the IT Admin for communication and troubleshooting with the end-user.



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

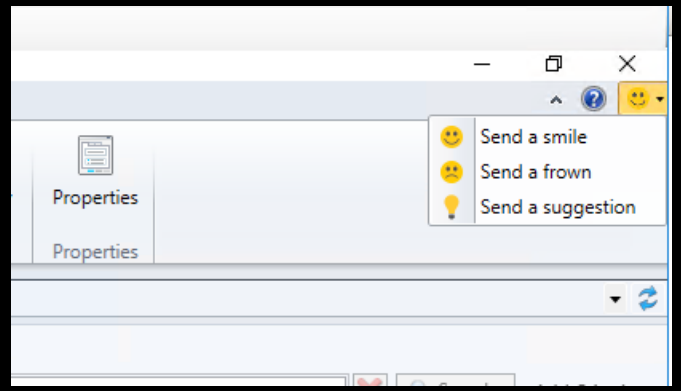
Client Tools: CMTrace

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



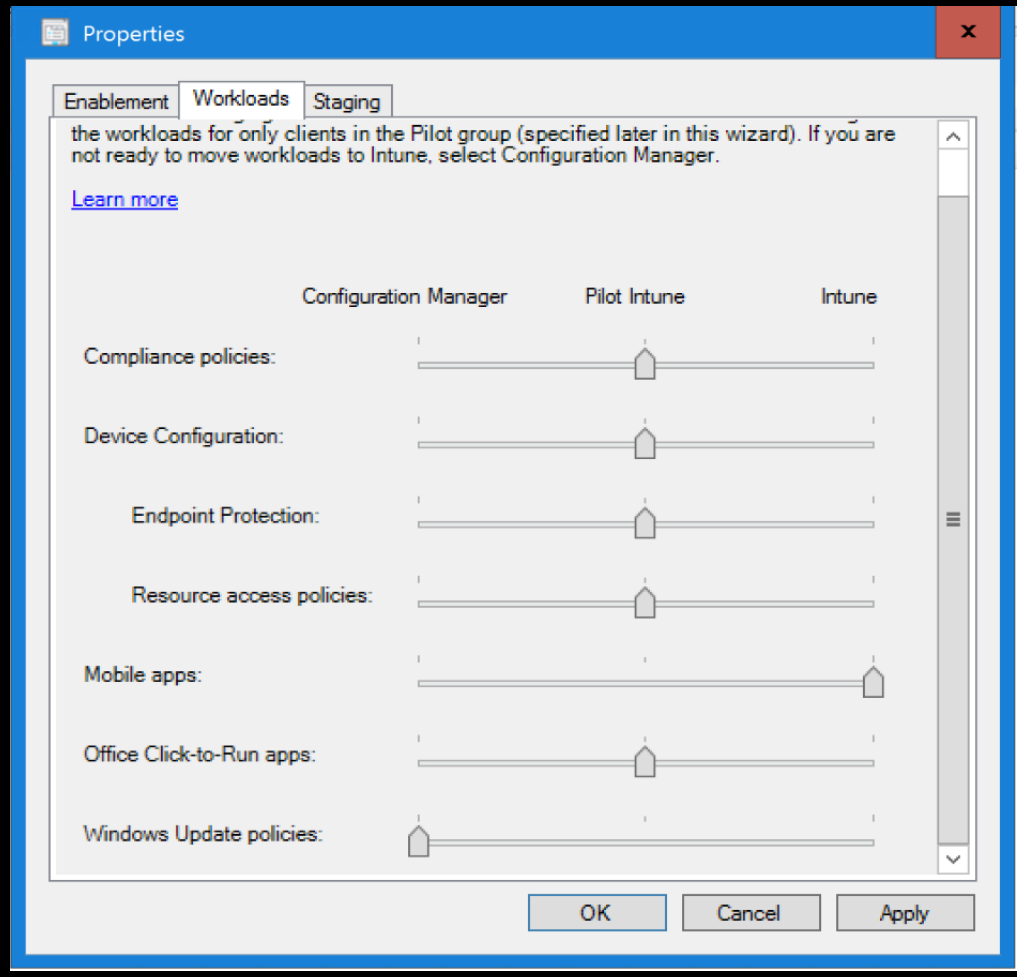
Send a Smile ☺

- 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

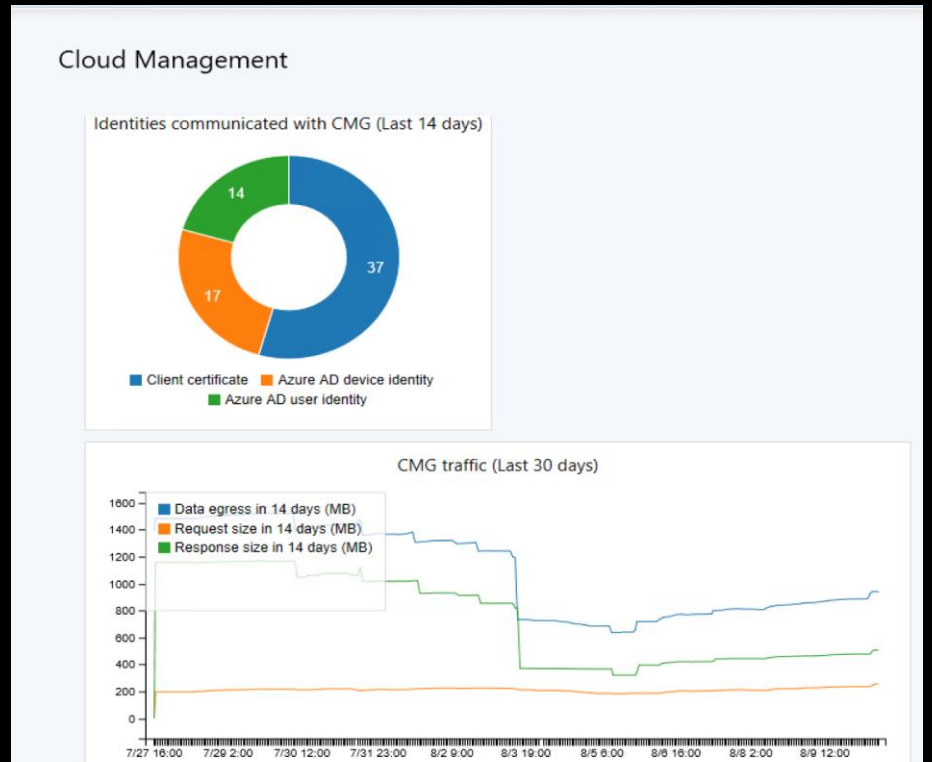


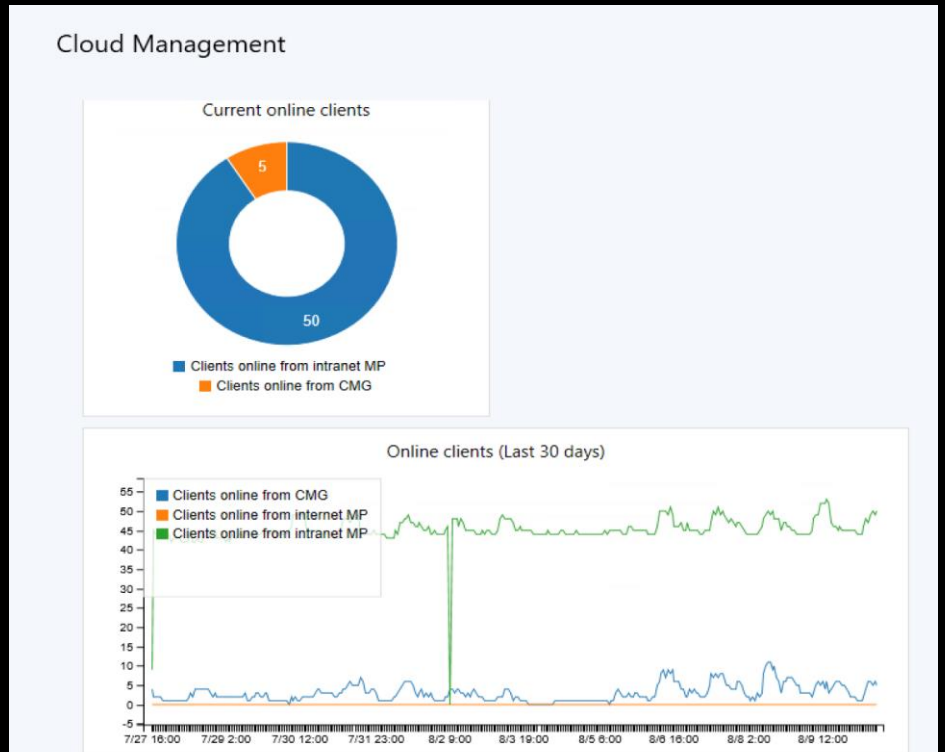
Cloud management gateway

- 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

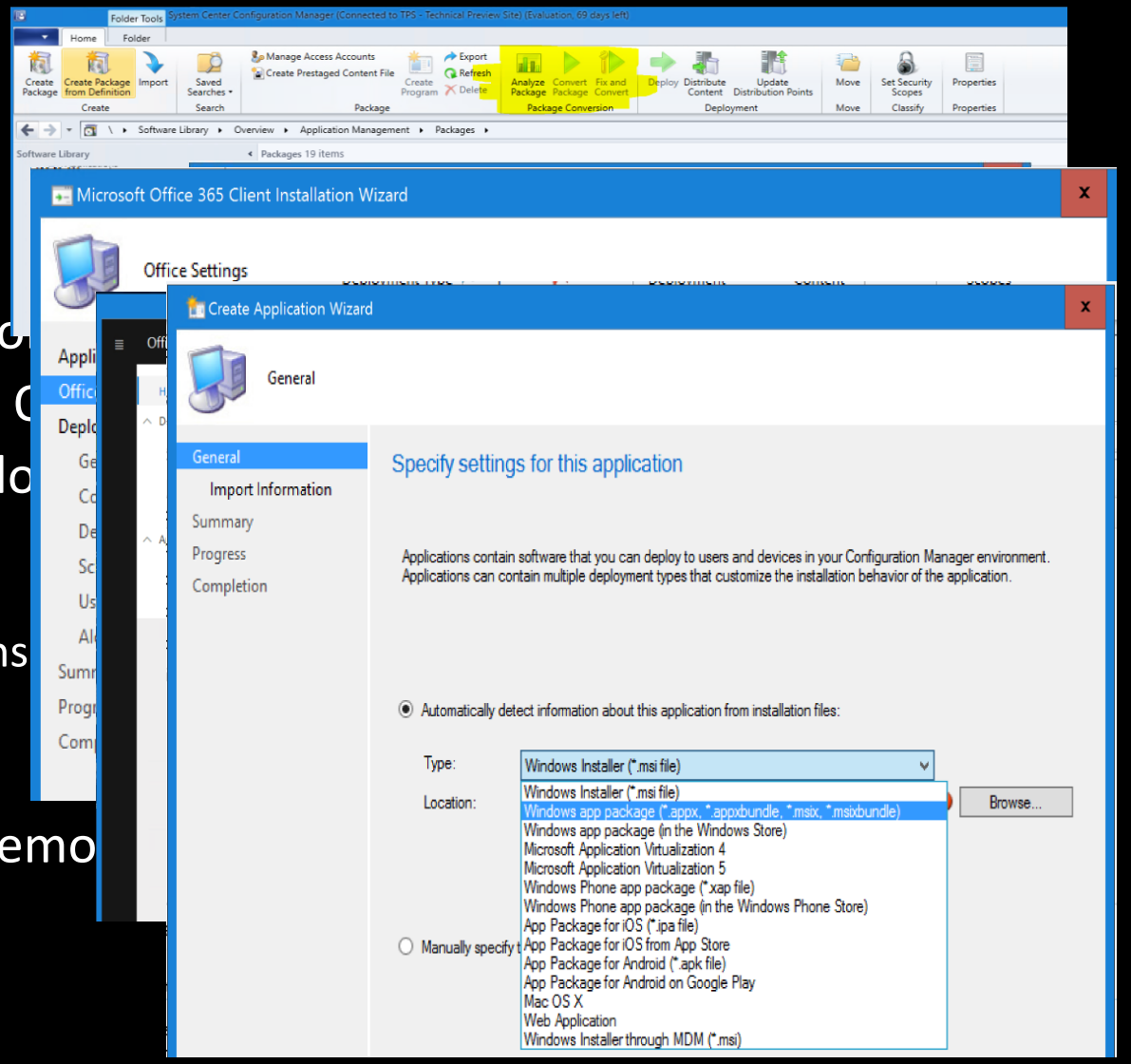
- This capability does not enable support for Azure Cloud Service Providers (CSP). The cloud distribution point deployment with Azure Resource Manager continues to use the classic cloud service, which the CSP does not support.

- Same as CMG!

Application improvements

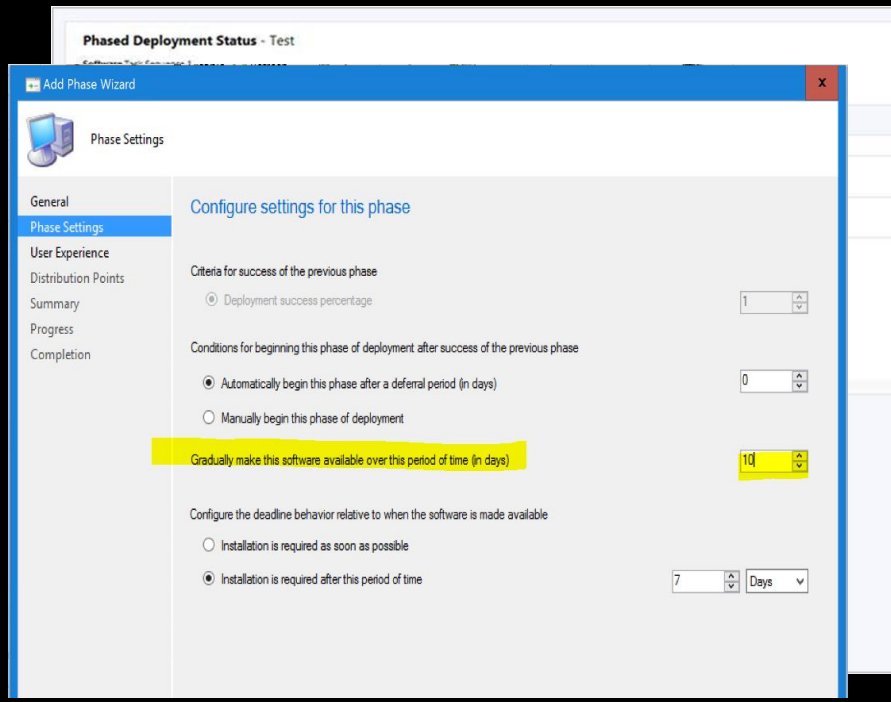
- Package Conversion Manager
  - Finally integrated in the console
  - Convert classical packages to Apps
- Provision Windows app packages for all users o
- Office Customization Tool integration with the C
- Configuration Manager now supports the deplo (.msix) and app bundle (.msixbundle) formats.
- 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!

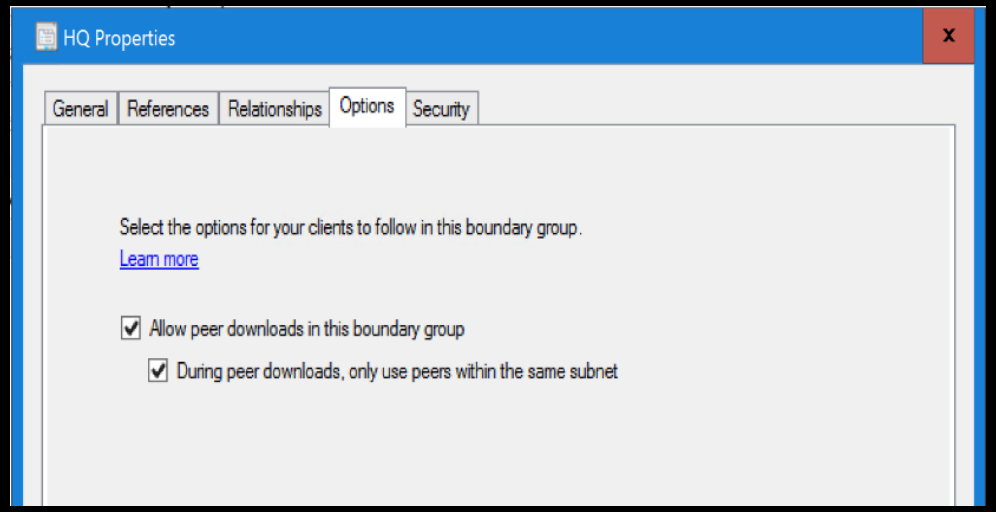


Software Center improvements

- 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

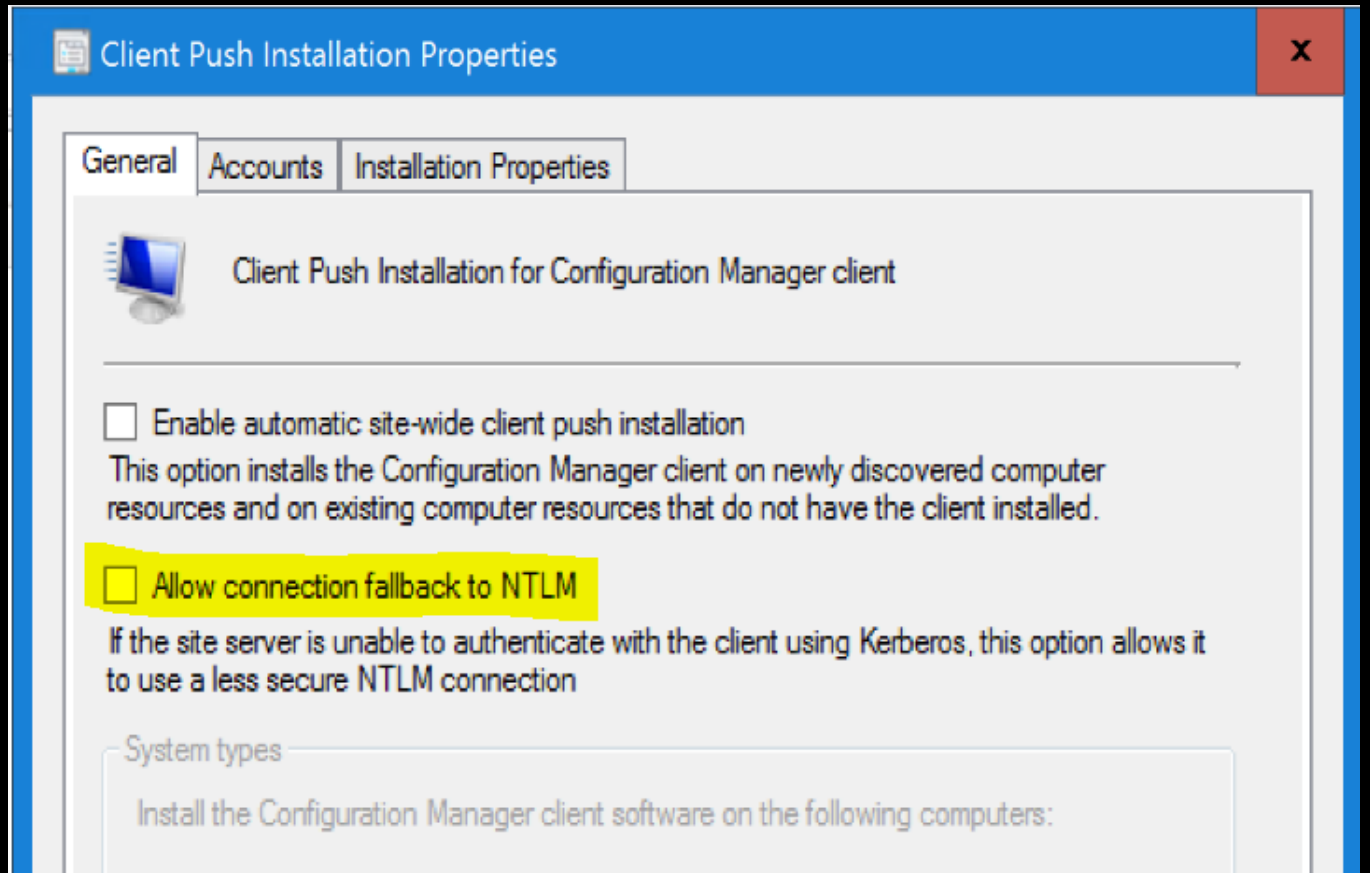
Boundary group options for peer downloads

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



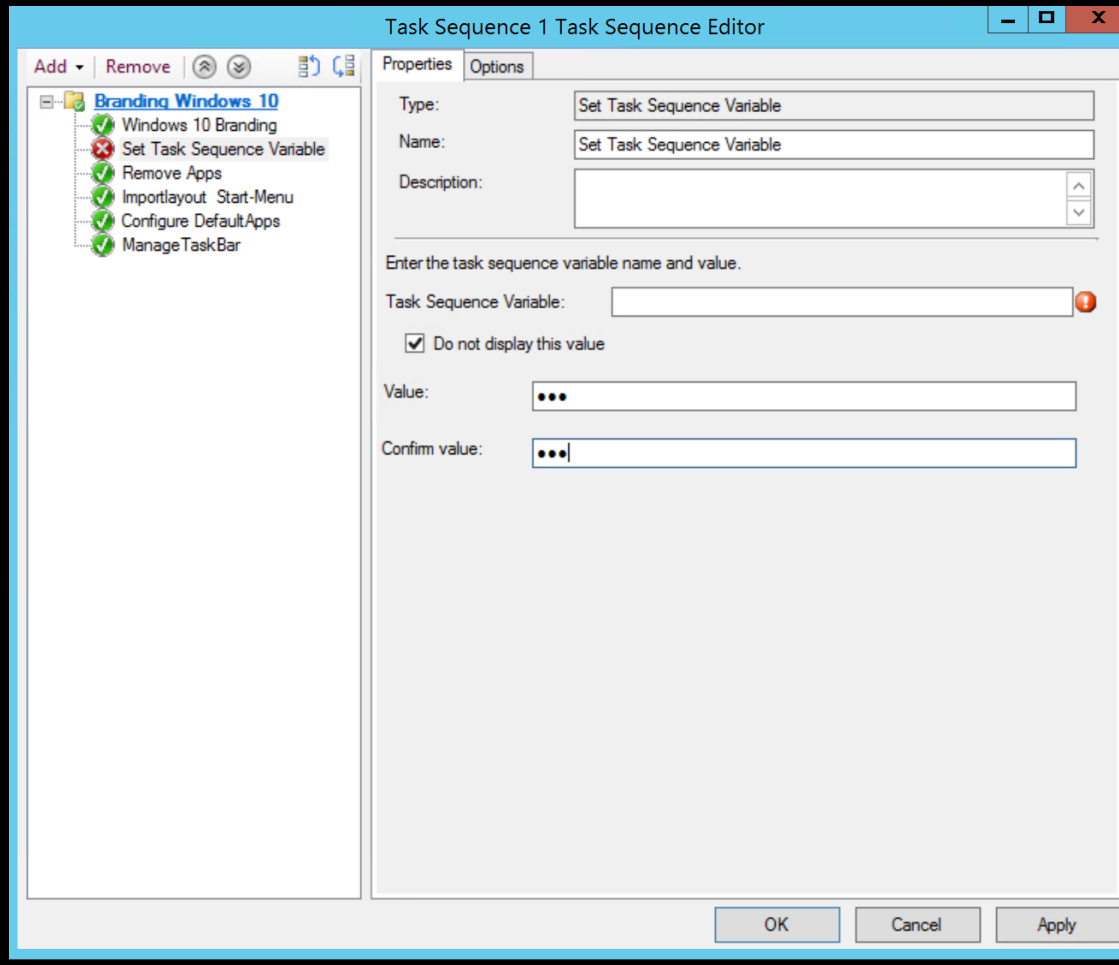
Client Push security improvements

- 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-provison and enable bitlocker step

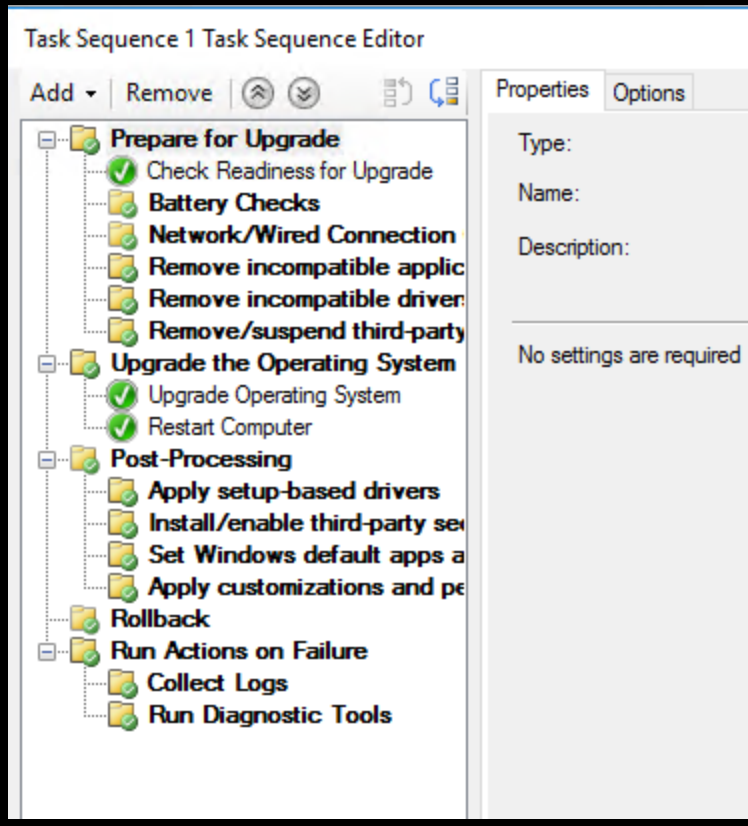


Improvements to PXE-enabled distribution points

- 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!**

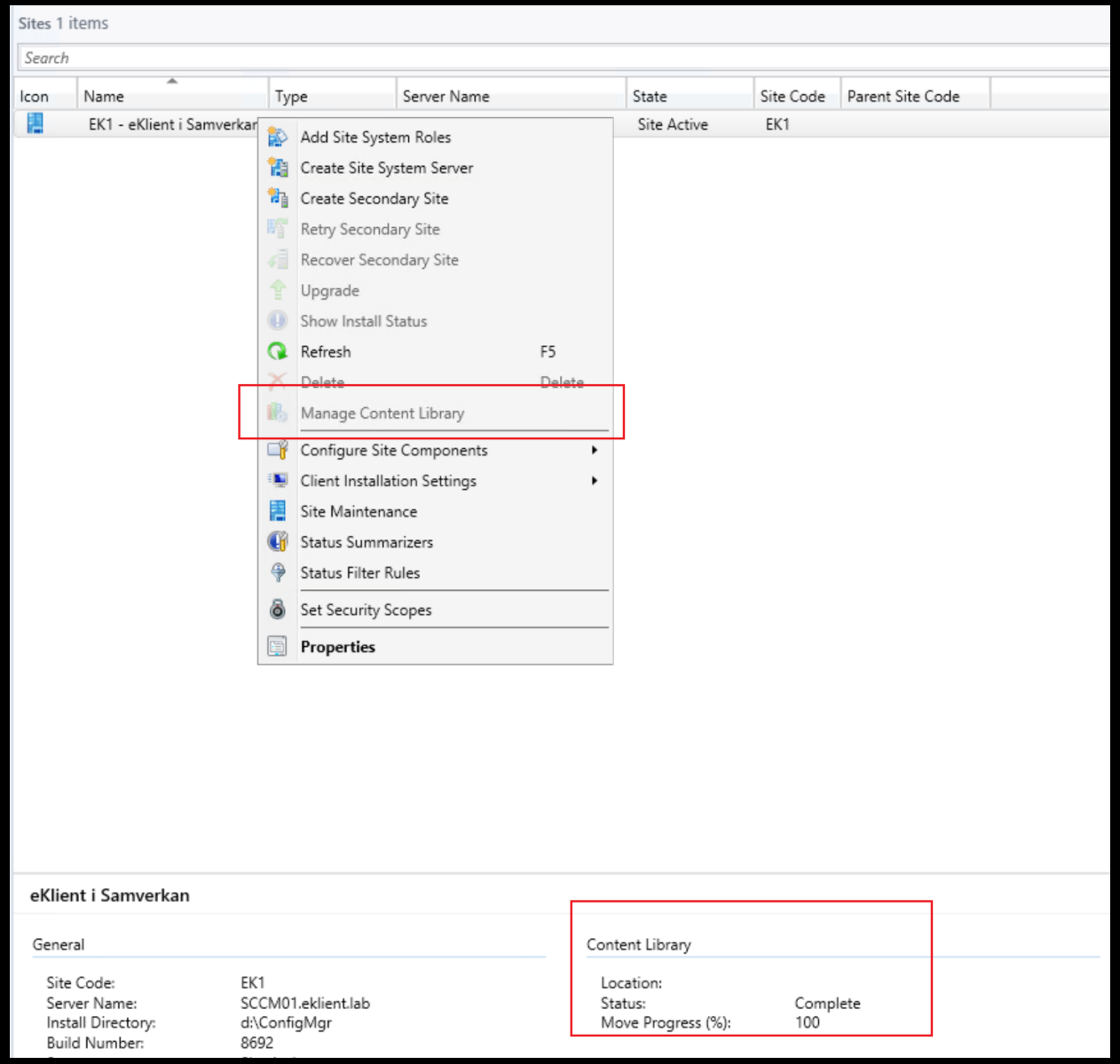
Improvements to Windows 10 in-place upgrade task sequence

- 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



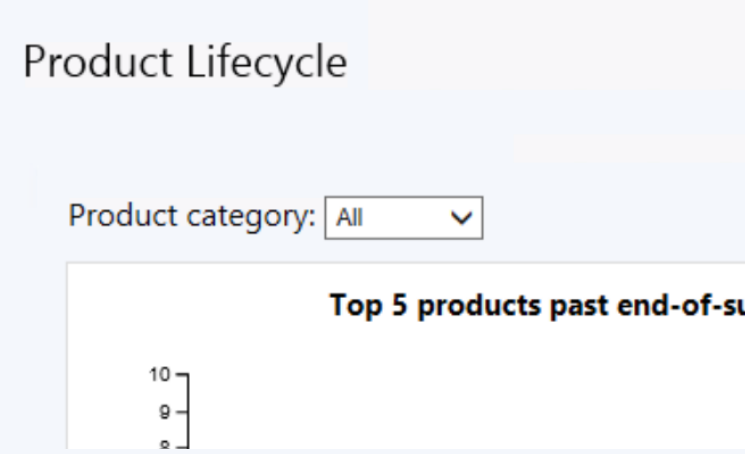
Site Server High Availability

- 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



Lifecycle data for installed products

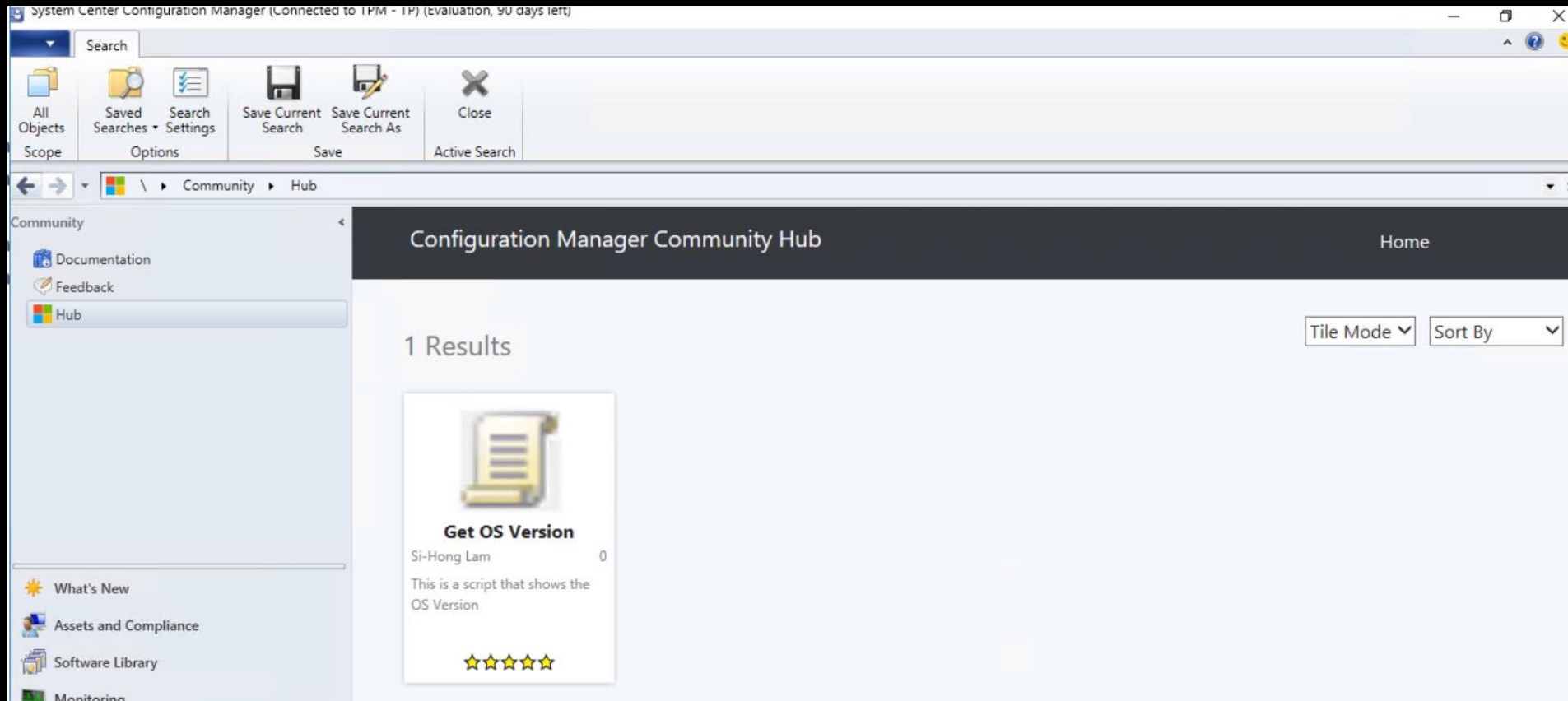
Support	Product name	Support time remaining	Number in environment	Mainstream support end date	Extended support end date	Ne
Expired	Windows 10 Enterprise 1511	None	2	-	-	Le
Expired	Windows 10 1507	None	1	-	-	Le
Expired	Windows 10 Enterprise 1607	None	1	-	-	Le
Mainstream	Windows 10 Enterprise 1803	1.3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

The information shown in this dashboard is provided for your convenience and only for use internally within your company. You shoul
rely on this information to confirm update compliance. Be sure to verify the accuracy of the information provided to you, along with av
support information by visiting https://support.microsoft.com/lifecycle.

What’s new in 1807 TP

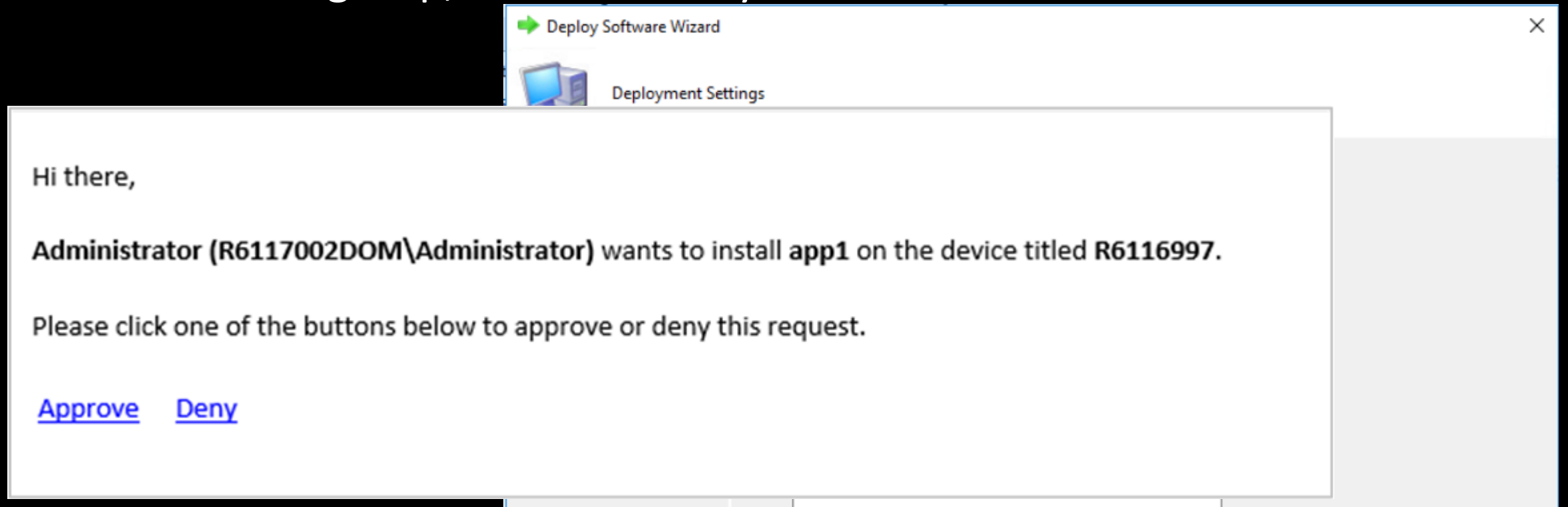
Community Hub

- 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

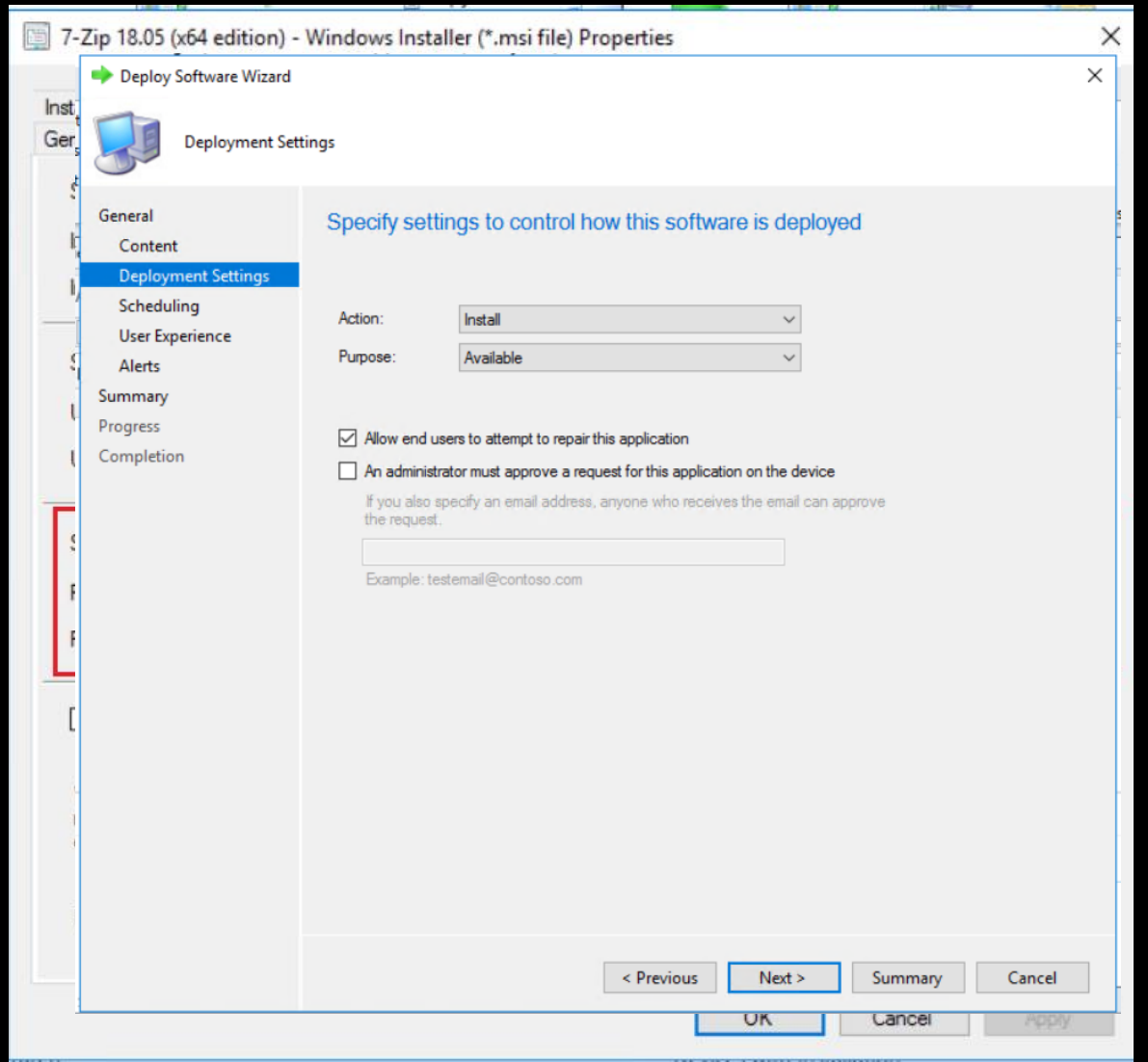
- Defined per deployment
- Application approval/deny using link in E-mail using CMG
- If sent to a group, the link is only valid once



Repair option for applications!

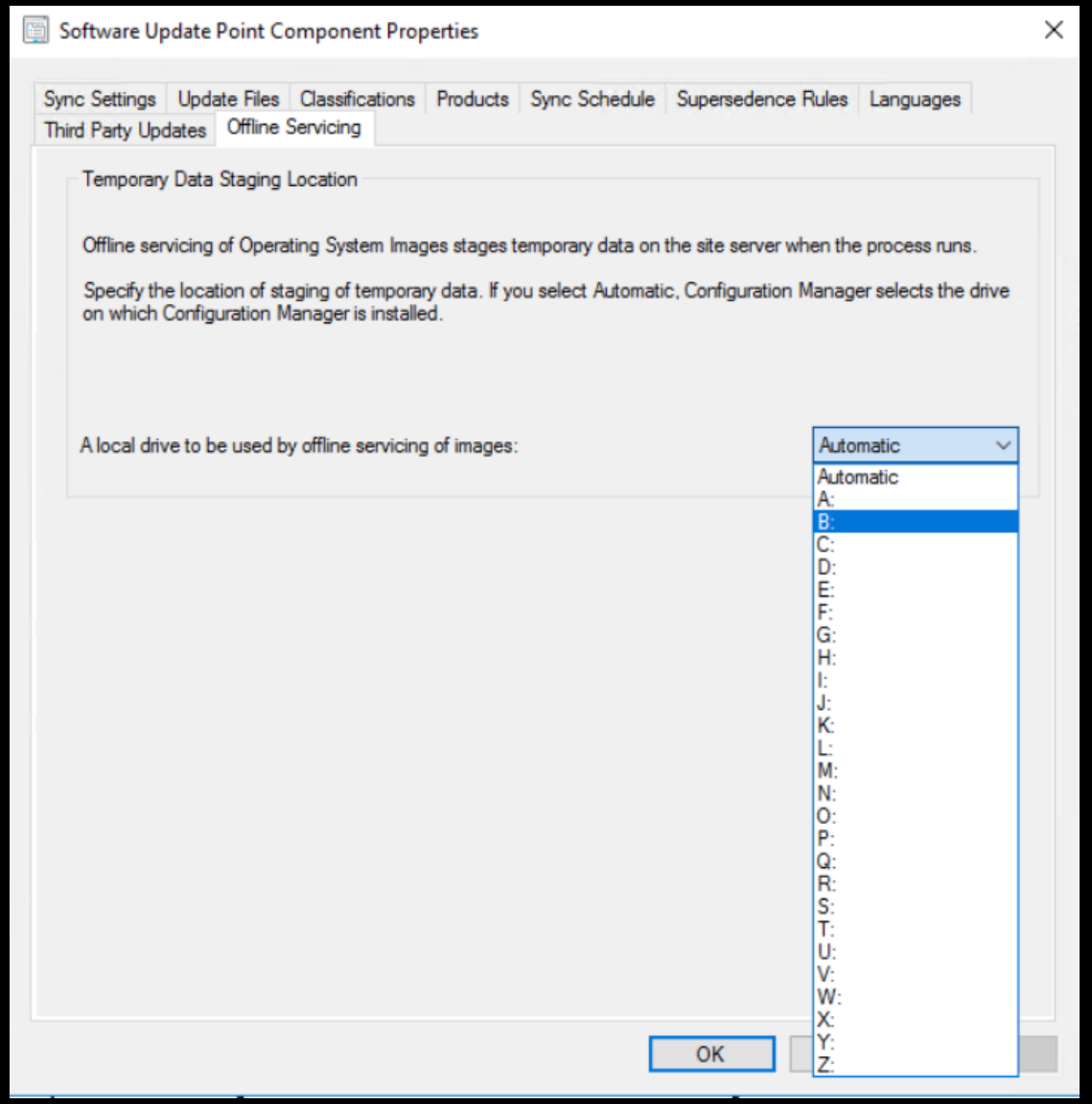
- Command line for repair of applications, can be script, .msi etc.
- End users will be able to repair applications from Software Center

- **Awesome!**



More features in 1807 TP

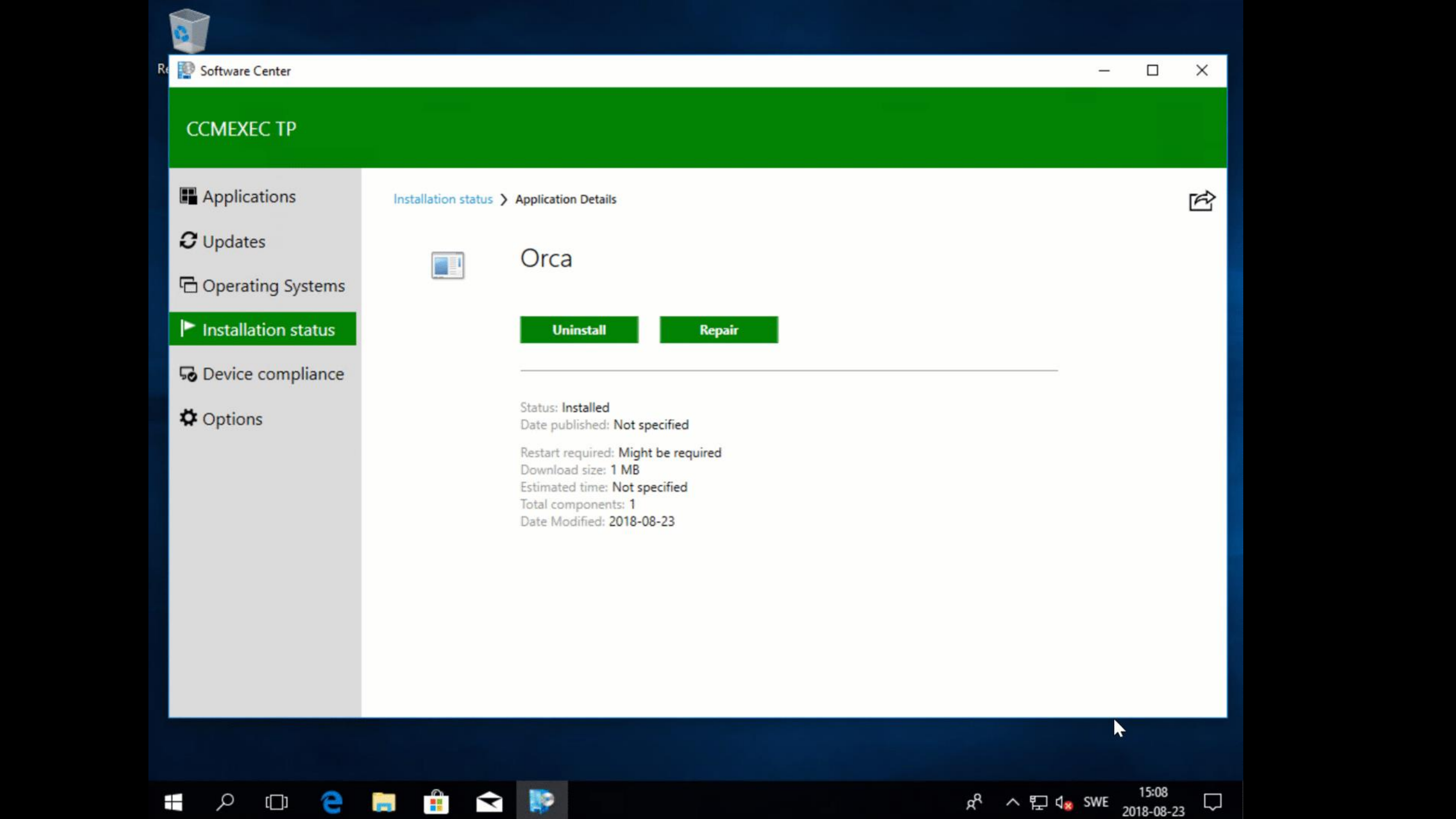
- Client sync activity from Intune is synced to CM console
- Offline Servicing drive selection



What’s new in 1808 TP

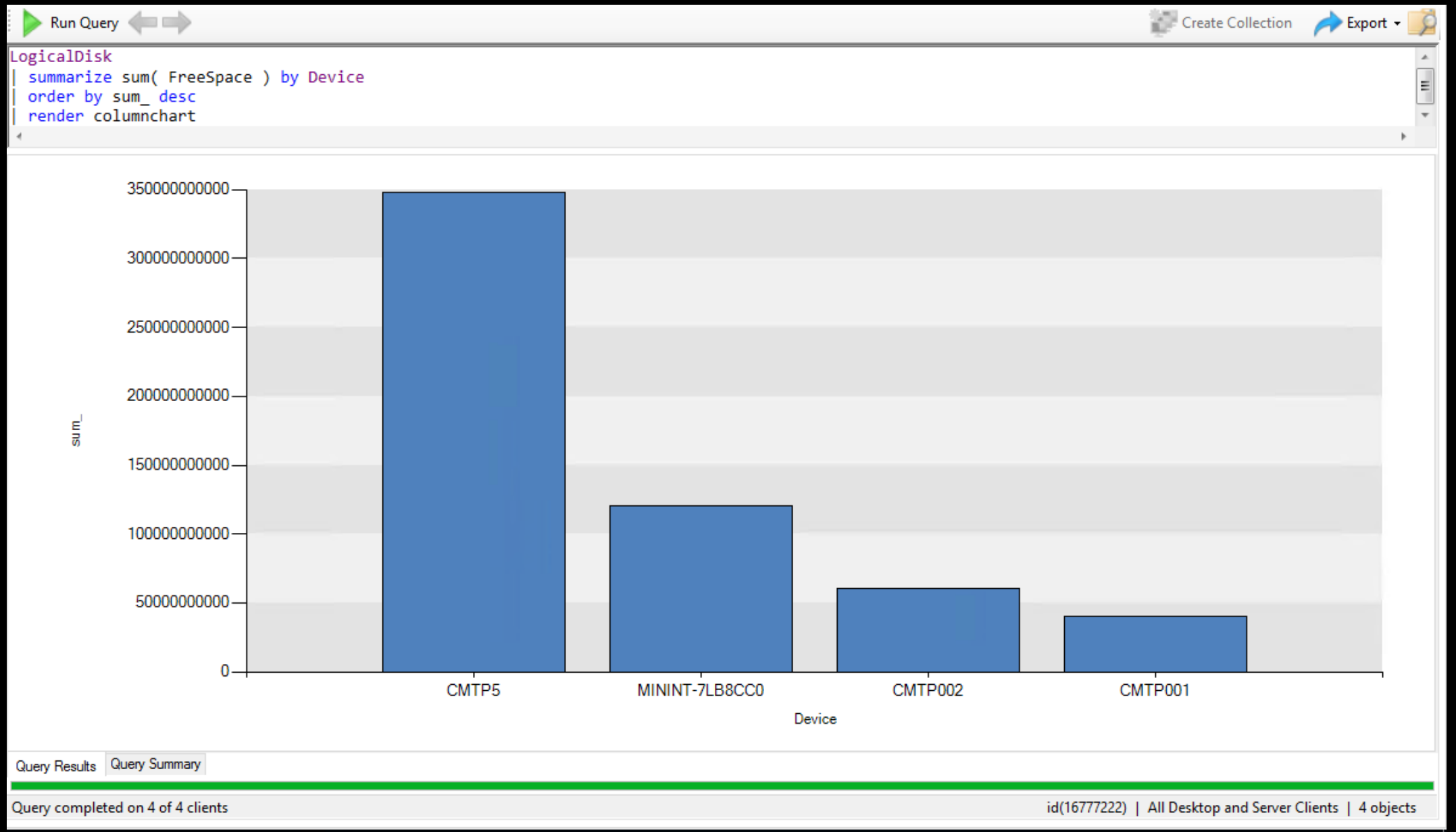
Configuration Manager 1808 TP

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


Software Center
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
SWE
15:08
2018-08-23

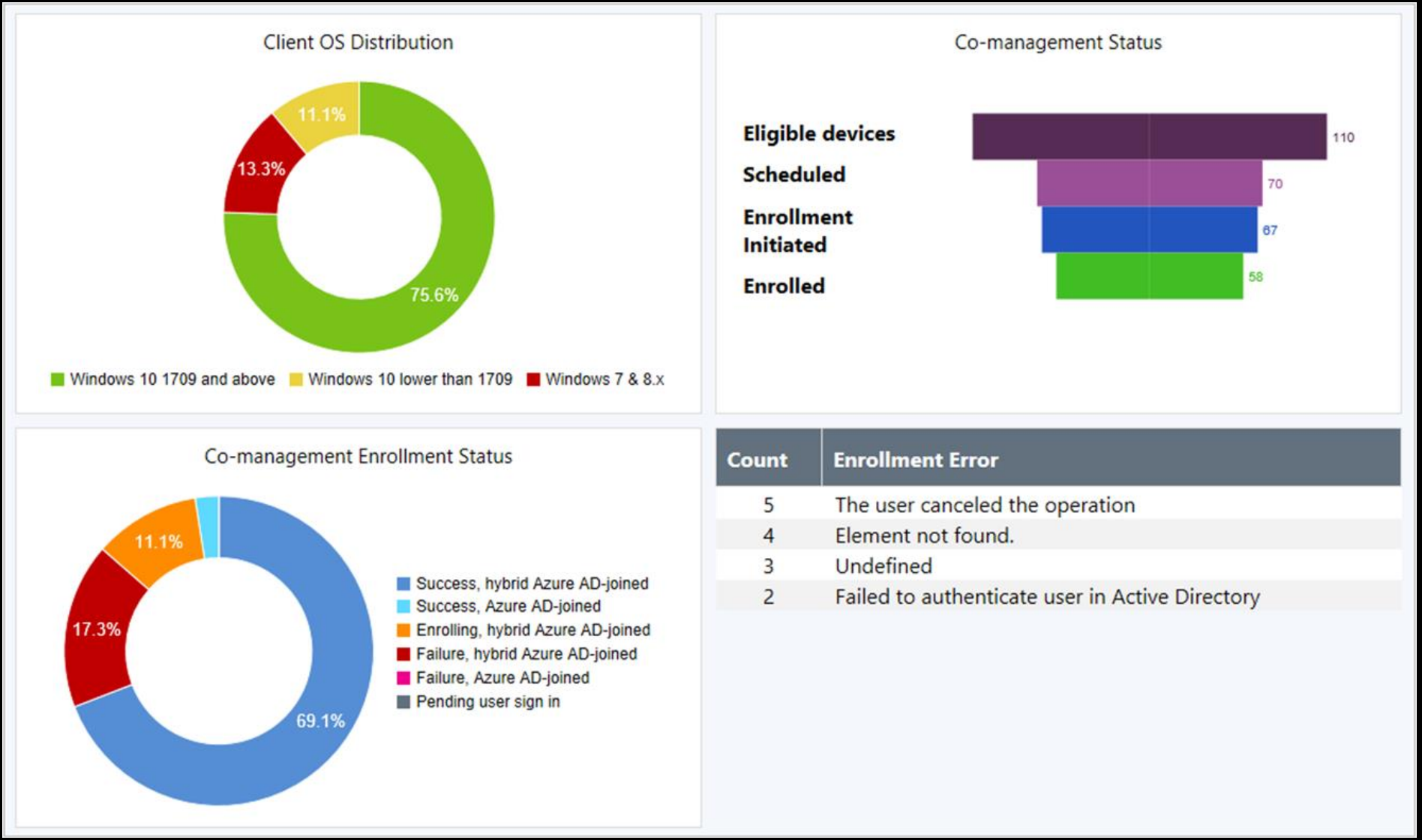
What’s new in 1809 TP

Cmpivot improvements



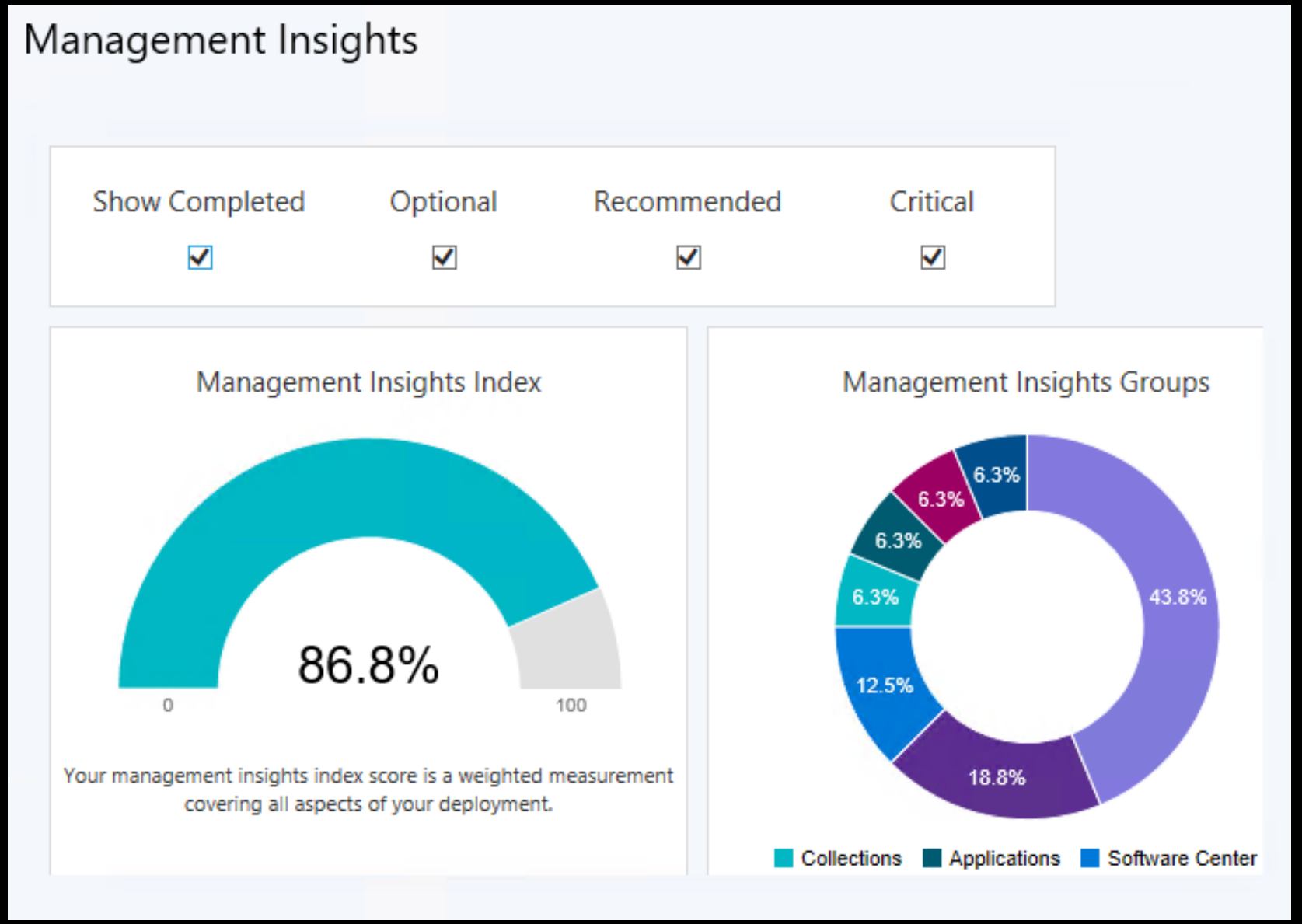
What’s new in 1810 & 1810.2 TP

Improved - Co-Management dashboard

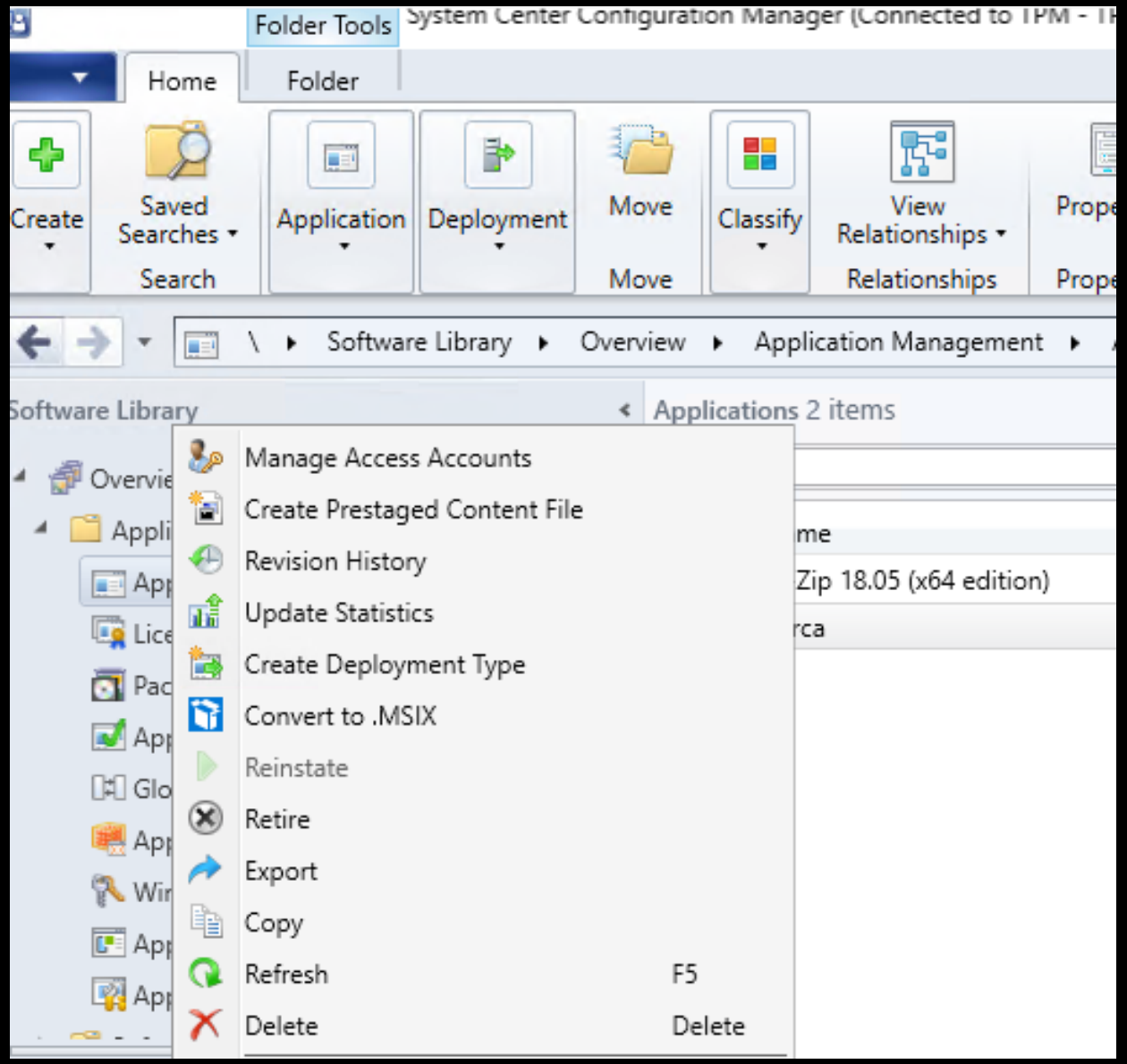


Count	Enrollment Error
5	The user canceled the operation
4	Element not found.
3	Undefined
2	Failed to authenticate user in Active Directory

Management Insight dashboard



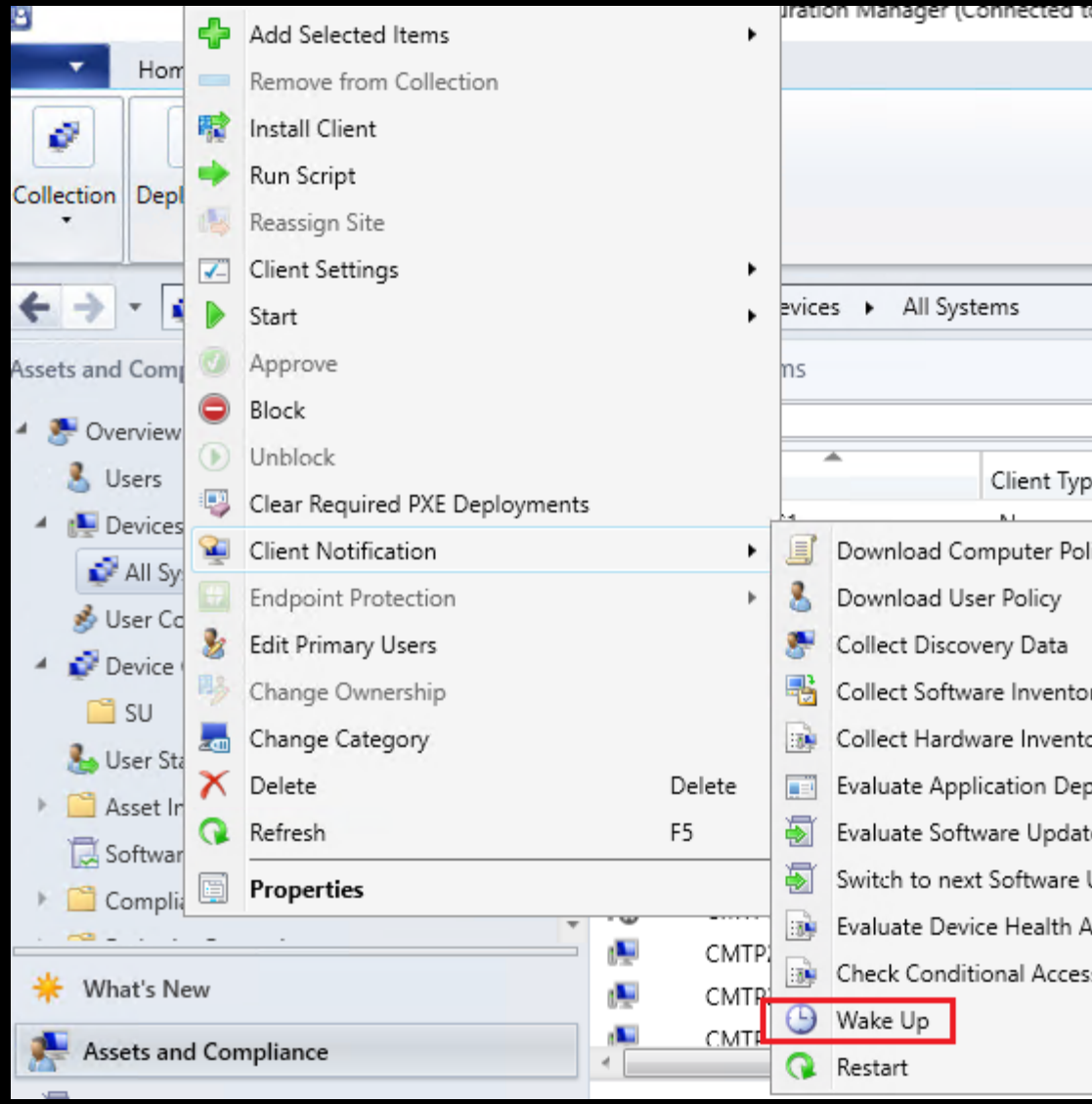
Convert MSI Apps -> MSIX using the Admin Console



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

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http://configurationmanager.uservoice.com/