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## About me...

### Ronni Pedersen

- Cloud Architect, APENTO
- Microsoft MVP: Enterprise Mobility
- MCSE/MCSA/MCITP/MCTS and more... ☺
- ITIL Foundation Certified
- Microsoft Certified Trainer (MCT)

## **Contact Info**

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- Twitter: @ronnipedersen







## About me...

## Jörgen Nilsson

- Principal Consultant, Onevinn
- Microsoft MVP: Enterprise Mobility
- MCSE/MCSA/MCITP/MCTS
- ITIL Foundation Certified
- Microsoft Certified Trainer (MCT)

## **Contact Info**

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- Twitter: @ccmexec



## Agenda



- Readiness
- Microsoft Intune (WUfB)
- Task Sequence
- Windows Servicing
- Customizations



# Windows 11 Readiness / Endpoint Analytics

- Easy to start using (Tenant attach, Intune, Co-Management)
  - Requires Windows Enterprise E3 (Microsoft 365 E3, EMS E3 or better).

			Filter: All Devices
		< Previous Pa	age 1 V of 1 Next >
Managed by $\uparrow\downarrow$	OS version $\uparrow \downarrow$	Windows 11 readiness sta ↑↓	Windows 11 readiness reason
Co-managed	10.0.19042.1348	Capable	
Intune	10.0.18363.1916	Not capable	System firmware
Intune	10.0.19043.1348	Not capable	TPM, System firmware
ConfigMgr	10.0.19043.928	Unknown	
ConfigMgr	10.0.19041.208	Unknown	



## Windows 11 Readiness / MEMCM

Microsoft provides a PowerShell script

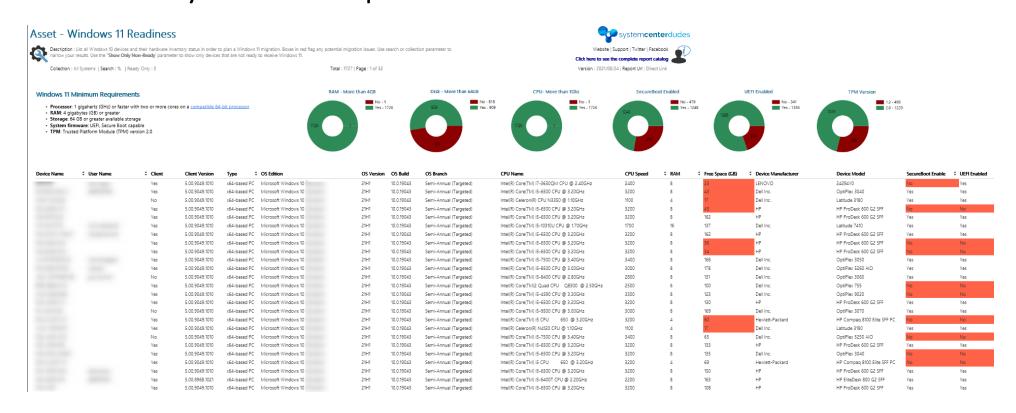
```
[int]$MinOSDiskSizeGB = 64
        [int]$MinMemoryGB = 4
        [Uint32]$MinClockSpeedMHz = 1000
        [Uint32]$MinLogicalCores = 2
        [Uint16] $RequiredAddressWidth = 64
 33 $PASS_STRING = "PASS"
 34 $FAIL_STRING = "FAIL"
 35  $FAILED_TO_RUN_STRING = "FAILED TO RUN"
      $UNDETERMINED_CAPS_STRING = "UNDETERMINED"
 37  $UNDETERMINED_STRING = "Undetermined"
      $CAPABLE_STRING = "Capable"
 39  $NOT_CAPABLE_STRING = "Not capable"
       $CAPABLE_CAPS_STRING = "CAPABLE"
        $NOT_CAPABLE_CAPS_STRING = "NOT CAPABLE"
       $STORAGE_STRING = "Storage"
PS C:\WINDOWS\system32> C:\Users\RonniPedersen\Downloads\HardwareReadiness.ps1
{"returnCode":0,"returnReason":"","logging":"Storage: OSDiskSize=931GB. PASS; Memory: System_Memory=32GB. PASS; TPM: TPMVersion=2.0, 0, 1.16. PASS; Processor: {AddressWidth=64; MaxClockSpeed=3096; NumberOfLogicalCores=8; Manufacturer=GenuineIntel; Caption=Intel64 Family 6 Model 158 Stepping 9; PlatformId 8}.
 PASS; SecureBoot: Capable. PASS; ", "returnResult": "CAPABLE"}
PS C:\WINDOWS\system32>
```

https://techcommunity.microsoft.com/t5/microsoft-endpoint-manager-blog/understanding-readiness-for-windows-11-with-microsoft-endpoint/ba-p/2770866



## **Windows 11 Readiness**

• A great community readiness report available:



https://systemcenterdudes.com/free-readiness-memcm-sccm-windows-11-report/



## Remote Workers are the new normal...

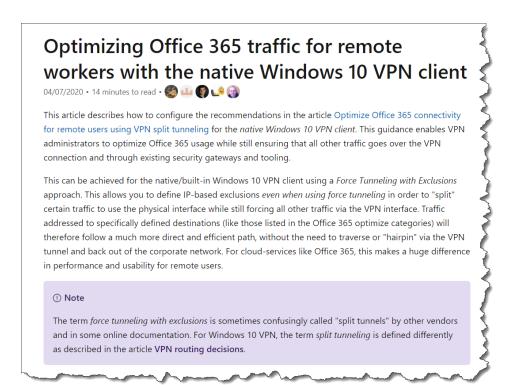
- Network Considerations
  - VPN (Forced/Split Tunneling)
- Content Location
  - WU/MU
  - On-Prem Servers
  - Azure Shares
  - Cloud Management Gateway (DP)
  - Cloud Attached or not
- End User Support
  - What if upgrade fails?
  - Recovery/Re-provision/re-deploy?





## **Network Considerations**

Optimizing network traffic for remote workers



https://docs.microsoft.com/en-us/windows/security/identity-protection/vpn/vpn-office-365-optimization



## **Challenges with Feature Updates**

- BIOS and Drivers Updates
- Outdated and unsupported Applications
- Pending Reboots
- Missing updates (CU and Security)
- Language Packs

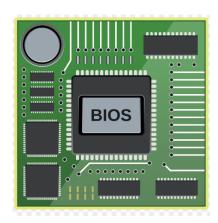




# **Driver/BIOS Mangement**

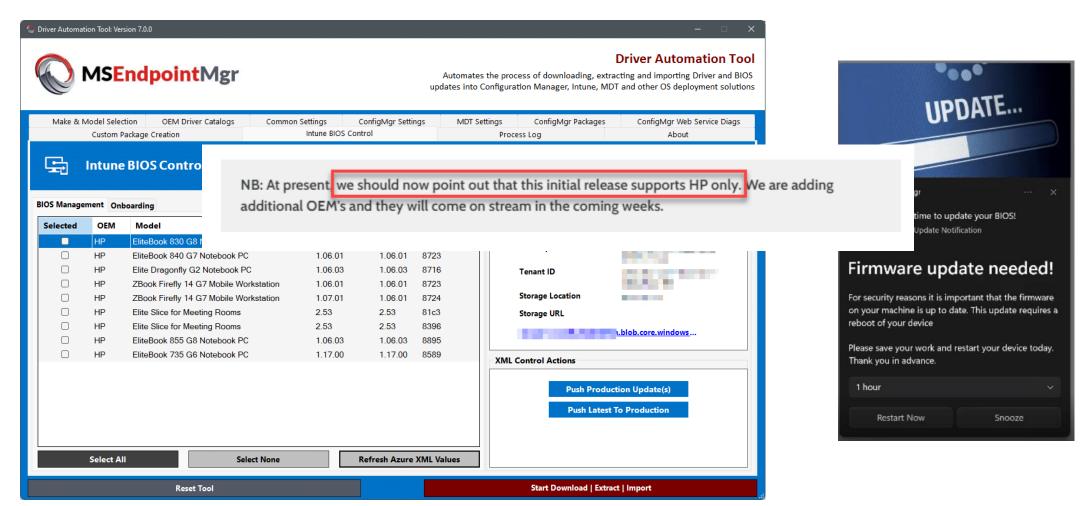
Community Tool: MSEndpointMgr Modern Driver Management
 https://msendpointmgr.com/modern-driver-management/
 Modern Driver Management should soon support Intune standard alone

- HP are updating BIOS/Firmware using MU for example: <a href="http://h10032.www1.hp.com/ctg/Manual/c06696094">http://h10032.www1.hp.com/ctg/Manual/c06696094</a>
- Updates Drivers from Microsoft Update
  - Most major venders has now started to update drivers using MU





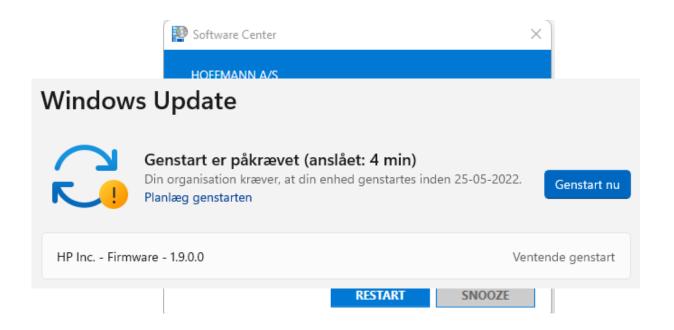
## MSEndpointMgr Intune BIOS Control





## **Driver Updates using WUfB**

- Drivers updates comes from the vendor
- Can cause many anoying reboots



## Driveropdateringer (50) Intel - net - 22.110.1.1 Installationen blev fuldført d. 25-05-2022 HP Inc. - Firmware - 1.9.0.0 Installationen blev fuldført d. 24-05-2022 Intel Corporation - Display - 30.0.101.1404 Installationen blev fuldført d. 23-05-2022 Intel - SoftwareComponent - 2130.1.16.40 Installationen blev fuldført d. 23-05-2022 Intel - SoftwareComponent - 2143.64.70.0 Installationen blev fuldført d. 18-05-2022





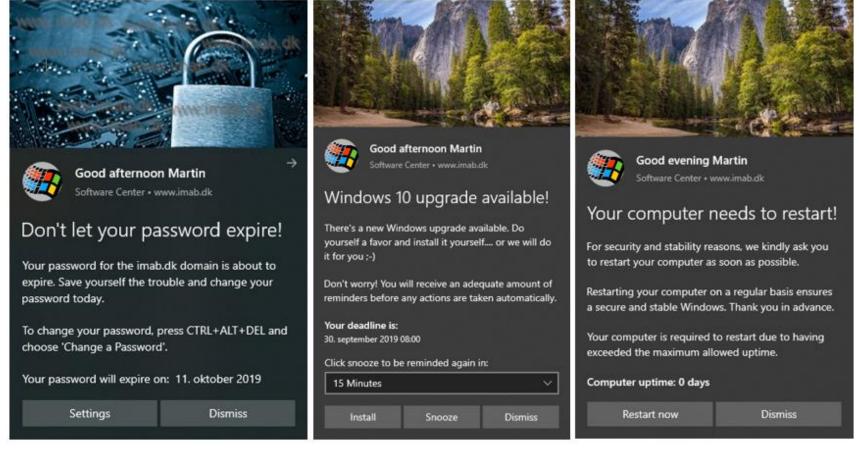
## **Updates Drivers from Microsoft Update**

```
#search and list all missing Drivers
(New-Object -ComObject Microsoft.Update.ServiceManager).Services
$UpdateSvc = New-Object -ComObject Microsoft.Update.ServiceManager
$UpdateSvc.AddService2("7971f918-a847-4430-9279-4a52dlefe18d".7."")
$Session = New-Object -ComObject Microsoft.Update.Session
$Searcher = $Session.CreateUpdateSearcher()
$Searcher.ServiceID = '7971f918-a847-4430-9279-4a52d1efe18d'
$Searcher.SearchScope = 1 # MachineOnly
$Searcher.ServerSelection = 3 # Third Party
$Criteria = "IsInstalled=0 and Type='Driver' and ISHidden=0"
Write-Host('Searching Driver-Updates...') -Fore Green
$SearchResult = $Searcher.Search($Criteria)
$Updates = $SearchResult.Updates
#Show available Drivers
$Updates | select Title, DriverModel, DriverVerDate, Driverclass, DriverManufact
#Download the Drivers from Microsoft
$UpdatesToDownload = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { $UpdatesToDownload.Add($ ) | out-null }
Write-Host('Downloading Drivers...') -Fore Green
$UpdateSession = New-Object -Com Microsoft.Update.Session
$Downloader = $UpdateSession.CreateUpdateDownloader()
$Downloader.Updates = $UpdatesToDownload
$Downloader.Download()
#Check if the Drivers are all downloaded and trigger the Installation
$UpdatesToInstall = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { if($_.isDownloaded) { $UpdatesToInstall.Add($_) | out-null } }
Write-Host('Installing Drivers...') -Fore Green
$Installer = $UpdateSession.CreateUpdateInstaller()
$Installer.Updates = $UpdatesToInstall
$InstallationResult = $Installer.Install()
if($InstallationResult.RebootRequired) {
Write-Host('Reboot required! please reboot now..') -Fore Red
} else { Write-Host('Done..') -Fore Green }
```

```
PS C:\WINDOWS\system32> $Updates | select Title, DriverModel, DriverVerDate, Driverclass, DriverManufacturer | fl
Title
                  : INTEL - System - 7/18/1968 12:00:00 AM - 10.1.14.4
DriverModel
                  : Intel(R) Host Bridge/DRAM Registers - 3EDO
DriverVerDate
                  : 18/07/1968 00.00.00
DriverClass
                  : OtherHardware
DriverManufacturer : INTEL
Title
                  : Intel - net - 22.20.0.6
DriverModel
                  : Intel(R) Wireless-AC 9560 160MHz
DriverVerDate
                  : 30/11/2020 00.00.00
DriverClass
                  : Networking
DriverManufacturer : Intel Corporation
Title
                  : Intel Corporation - Bluetooth - 22.20.0.3
DriverModel
                  : Intel(R) Wireless Bluetooth(R)
                  : 27/11/2020 00.00.00
DriverVerDate
                  : OtherHardware
DriverClass
DriverManufacturer: Intel Corporation
```

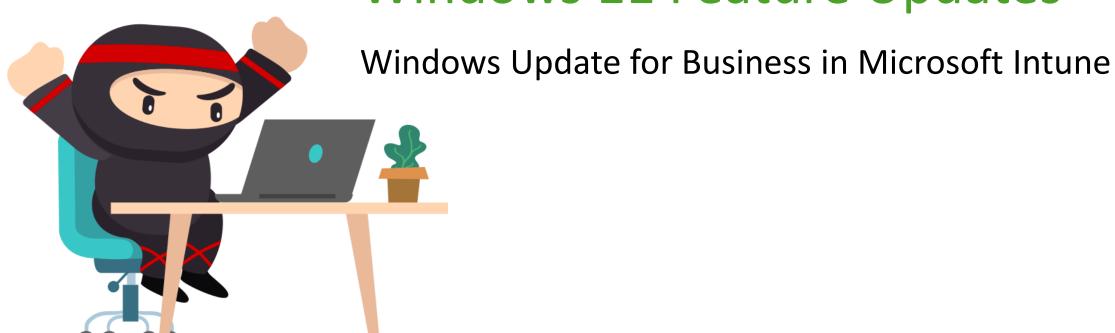


## **Pending Reboots / Notifications**



https://www.imab.dk/windows-10-toast-notification-script/

# Windows 11 Feature Updates





## **Windows Update for Business**

## • Pros

- Devices access Windows Update directly for the updates
  - Simple infrastructure and Less work
- Simple Management
- Microsoft hold back updates for "bad" devices (Safeguard Hold)
- Included driver updates

## • Cons

- Limited Control
- Maximum 1 year postpone
- Limited Reporting







## **Optional: Custom Power BI Reports**





# Windows 11 Feature Updates (Intune)

## This feature is still in public preview

- Telemetry must be turned on
  - Minimum setting of **Basic**.

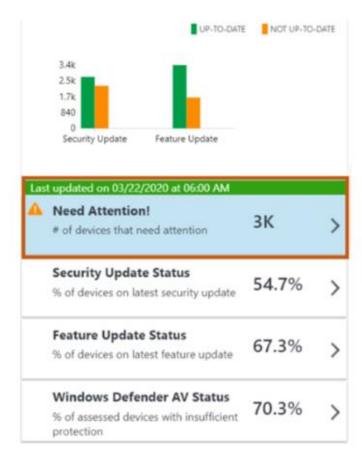
## **Important**

- The Feature update deferral period (days) must be set to 0.
- Windows Autopilot: The feature updates policy cannot be applied during the out of box experience (OOBE). (Can take up to 1 day).



# **Safeguard Holds**

- Diagnostic Data is used to determine whether a devices are ready for a feature update...
- Goal: To ensure a smooth experience!



### LIST OF QUERIES Feature Update deployment issues WaaSDeploymentStatus | where UpdateCategory == "Feature" ... Deferral configurations for Feature Update WaaSUpdateStatus | summarize count(ComputerID) by Feature... Pause configurations for Feature Update WaaSUpdateStatus | summarize count(ComputerID) by Feature... Devices pending reboot to complete feature updates WaaSDeploymentStatus | where UpdateCategory == "Feature" ... Devices with a safeguard hold WaaSDeploymentStatus | where DetailedStatus == "Safeg... Target build distribution of devices with a safeguard hold WaaSDeploymentStatus | where DetailedStatus == "Safeg... Security Update Deployment Issues WaaSDeploymentStatus | where UpdateCategory == "Quality" ... Deferral configurations for Quality Update WaaSUpdateStatus | summarize count(ComputerID) by Quality... Pause configurations for Quality Update WaaSUpdateStatus | summarize count(ComputerID) by Quality... Devices pending reboot to complete security updates WaaSDeploymentStatus | where UpdateCategory == "Quality" ... OS Edition distribution for the devices

WaaSUpdateStatus | summarize DeviceCount = count() by OSE...

# Requirements for Feature Updates in Intune

- License: Intune + Windows Enterprise E3, VDA or Business Premium
- Windows 10/11 that remains in support
- Hybrid AD joined or Azure AD joined (enrolled in Intune MDM)
- Have Telemetry turned on
- Windows 10/11 Enterprise LTSC is not supported



# Make updates available gradually

## **New Rollout Options**

- First group availability
- Final group availability
- Days between groups

## Example:

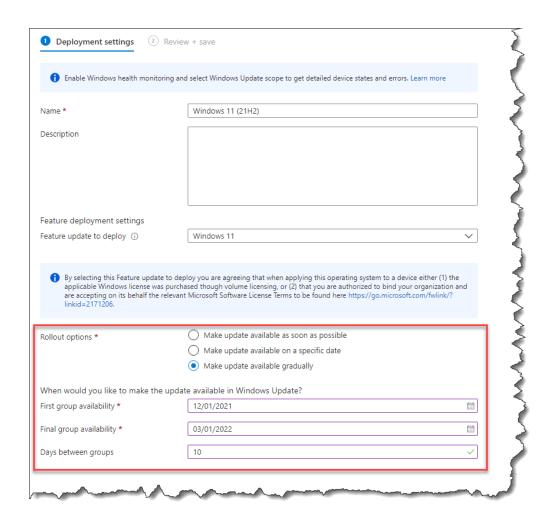
• Clients: 400

• First day: 1/1-2022

• Last day: 10/1-2022

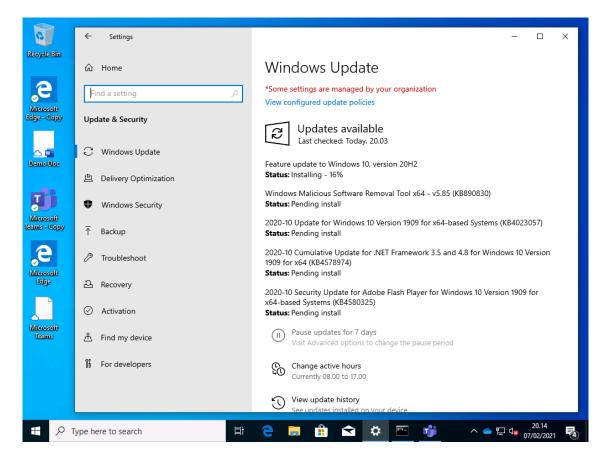
Days between: 3

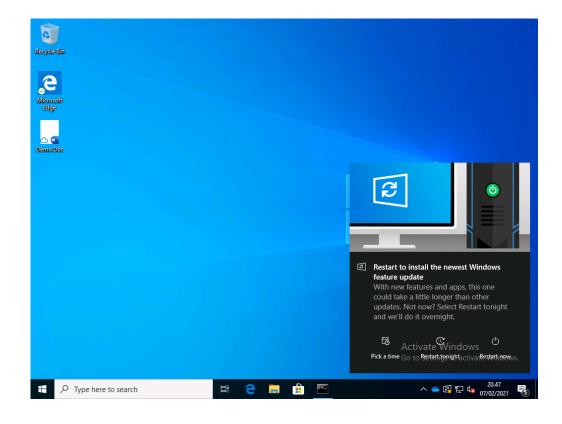
• Result: **4 Rings** (1/1, 4/1, 7/1, 10/1)





## End User Experience (1909 -> xxxx)







# Reports: Windows updates (preview)

#### Home > Reports

Firewall

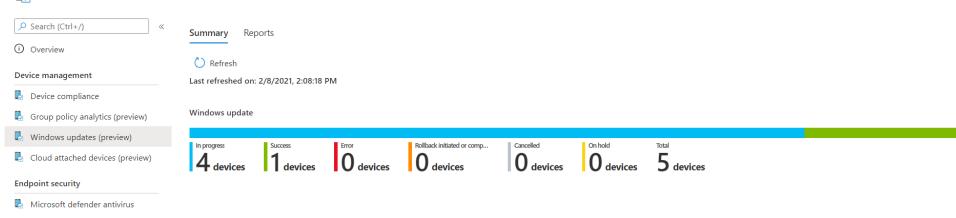
Analytics

Endpoint analytics

Intune data warehouse

Data warehouse

Reports | Windows updates (preview)



Devices ↑↓	UPN ↑↓	Intune Device ID $\uparrow \downarrow$	AAD Device ID $\uparrow \downarrow$	Last Event Time $\uparrow \downarrow$	Update State	Update Substate	Update Aggregated S
MININT-RLCM8T8	rop@techpreview.dk	4e1d242a-de6a-4f95-b9	233486f3-1ceb-4b5a-a2	2/9/2021, 10:00:00 AM	Installed	Update installed	Success
TPPC-0901	rop@techpreview.dk	b80efc22-e7d9-420b-9f	03fb09da-8960-4e24-90	2/7/2021, 2:45:06 PM	Pending	Scheduled	In progress
TPPC-2315	rop@techpreview.dk	c3c91379-f4d0-4d44-89	b668834e-3a0f-49a7-90	2/9/2021, 4:00:00 AM	Installed	Update installed	Success
TPPC-3826	rop@techpreview.dk	a8f7da64-241c-4948-92	7cc7944c-88b6-49d9-94	2/7/2021, 2:45:06 PM	Pending	Scheduled	In progress
TPPC-4085	rop@techpreview.dk	bda1191d-2388-47cd-a	692baff1-f6fb-4ff9-af5d	2/8/2021, 10:45:21 PM	Offering	Offer ready	In progress
TPPC-7412	rop@techpreview.dk	ffab687d-1795-4565-ac8	68d0fa2b-39ef-44c3-9b	2/7/2021, 2:45:06 PM	Pending	Scheduled	In progress



# Customer after 60 days (gradually roll-out)

Windows Feature updates

13,252 devices Error 135 devices 1 devices

17,114 devices

Profile ↑↓	Versions	$\uparrow_{\downarrow}$	Success	$\uparrow_{\downarrow}$	Error	$\uparrow_{\downarrow}$	In progress	$\uparrow_{\downarrow}$	Rollback initiate $\uparrow \downarrow$	Cancelled
Feature Update for devices running old versions of Windows	Windows 10, version 21H2		17		1		112		0	0
Feature Updates - Ring 0 (Windows 11 21H2)	Windows 11, version 21H2		32		1		15		0	0
Feature Updates - Ring 1 (Windows 10 21H2)	Windows 10, version 21H2		448		14		111		0	0
Feature Updates - Ring 2 (Windows 10 21H2)	Windows 10, version 21H2		945		4		189		0	0
Feature Updates - Ring 3 (Windows 10 21H2)	Windows 10, version 21H2		11810		115		3616		1	0

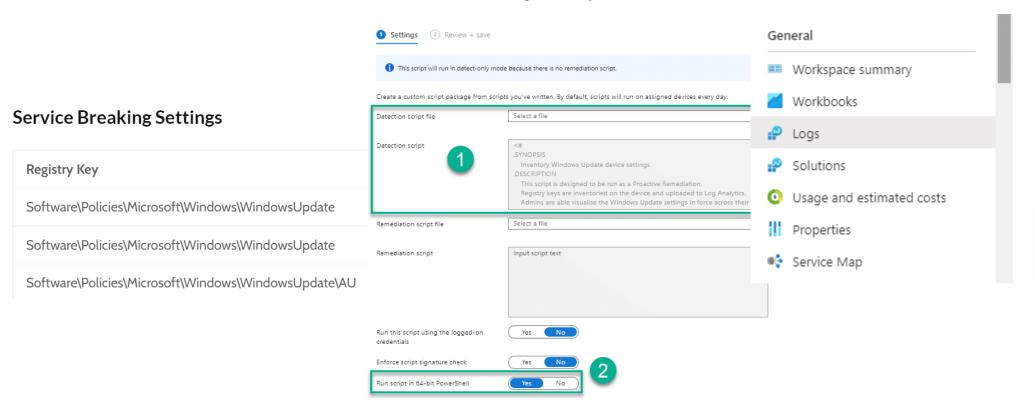


## Migrating from other solutions



- Using Proactive Remediations and Log Analytics
- Ensure Windows Update Settings are Optimal and Compliant.

Edit - **WU** Device Settings Inventory

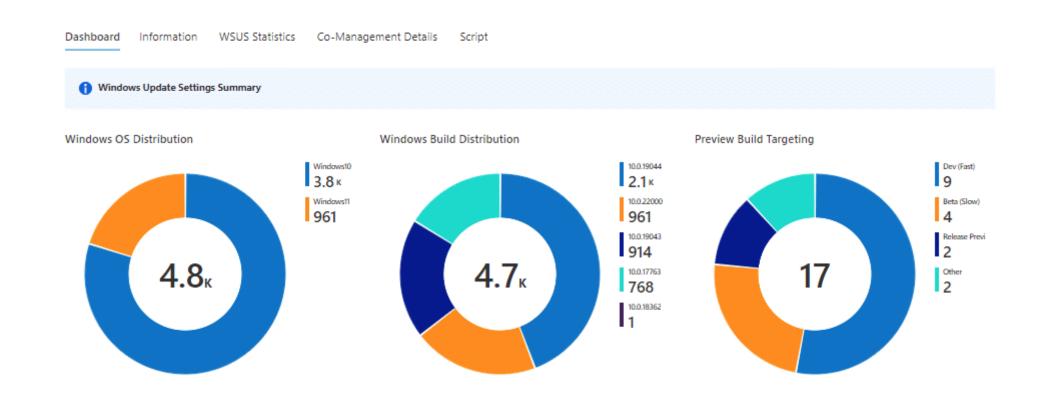


▶ 目 Alert
 ▶ 目 AppCenterError
 ▶ 目 ComputerGroup
 ▶ 目 Operation
 ▶ 目 SigninLogs
 ▶ 目 Usage
 ▲ Custom Logs
 ▶ 目 WUDevice\_Settings\_CL



## **Settings Summary**



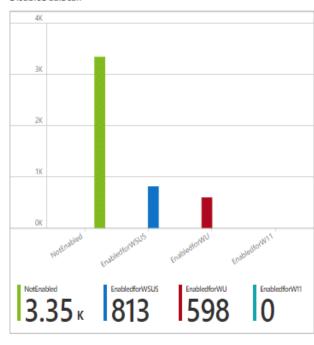




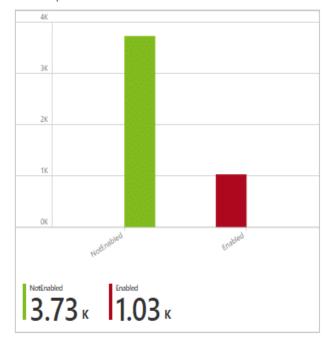
## **Service Break Settings**



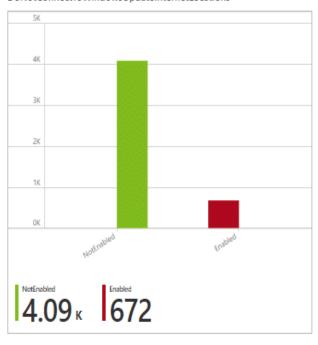
### DisableDualScan



### NoAutoUpdate



### DoNotConnectToWindowsUpdateInternetLocations



### DisableDualScan

Setting 1	, Devices↑↓	
NotEnabled	3346	
Enabled (WU)	598	
Enabled (WSUS)	813	

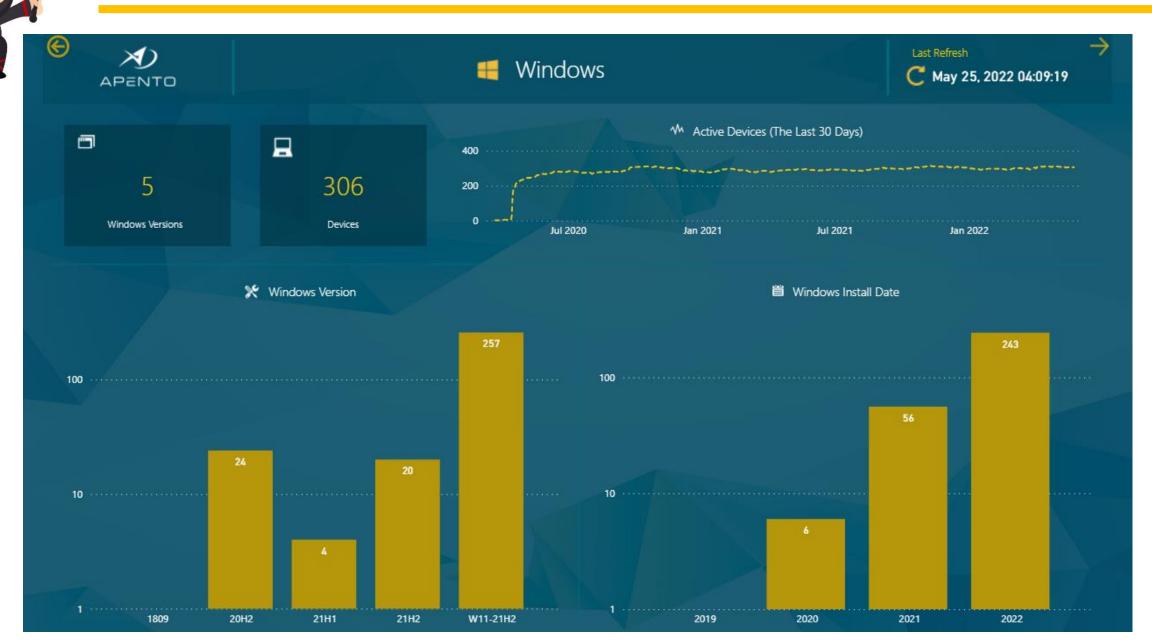
### NoAutoUpdate

Setting	$\uparrow_{\downarrow}$	Devices↑↓	
NotEnabled		3729	
Enabled		1028	

### DoNotConnectToWindowsUpdateInternetLocations

Setting	$\uparrow$ $\downarrow$	Devices↑↓	
NotEnabled		4085	
Enabled		672	

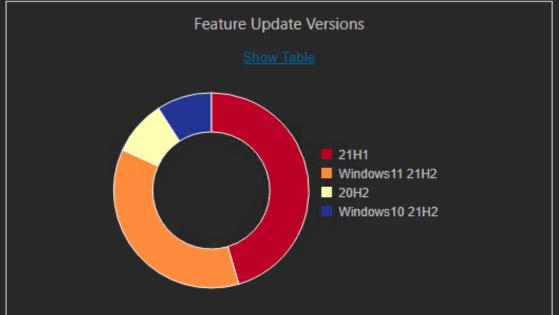
# **Monitoring Feature Upgrades**

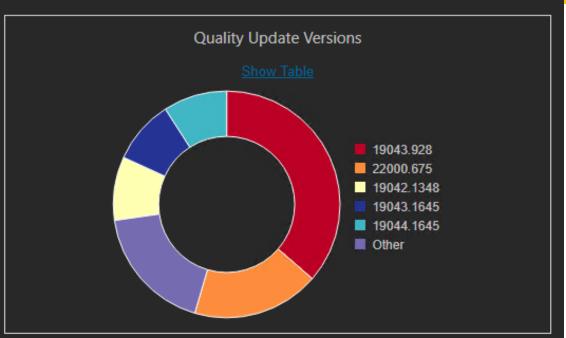


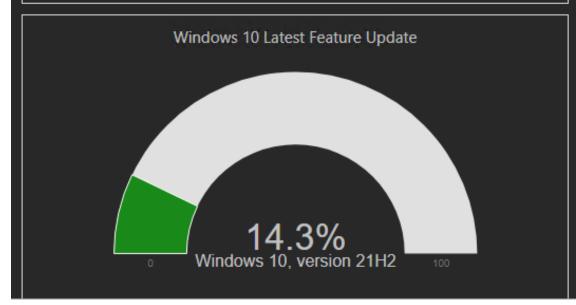
# Windows Servicing (MEMCM)

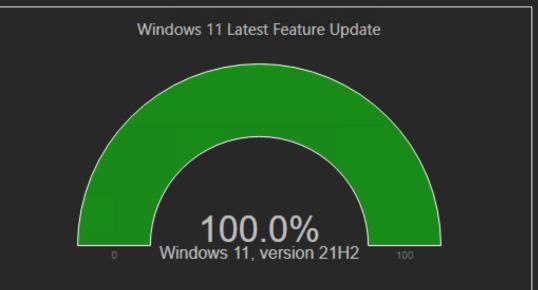














# Windows Servicing (MEMCM)

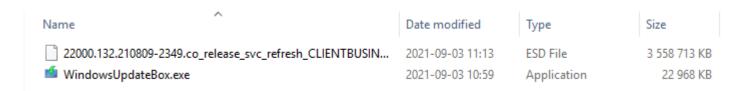
• Error messages show up in the dashboard





## **MEMCM** Windows 11 servicing

- Windowsupdatebox.exe + .esd file
- Content can come from Microsoft Update
- Can be run from an application instead
  - WindowsUpdateBox /Update /PreDownload /quiet
  - WindowsUpdateBox /Update /Install /quiet
  - WindowsUpdateBox /Update /Finalize /quiet



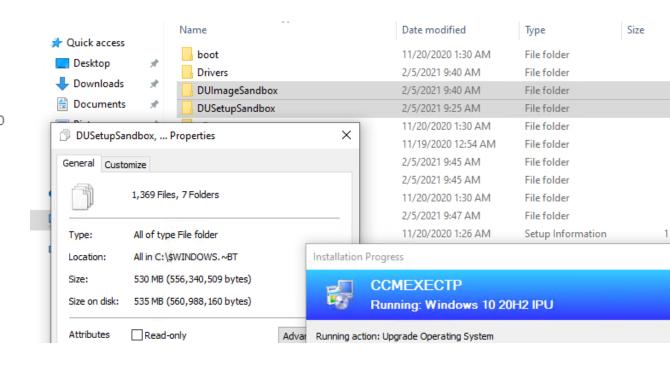
<u>SCCM/MEMCM: Windows 10 Feature Update Rollouts via Application Deployment - TechNet Articles - United States (English) - TechNet Wiki (microsoft.com)</u>



## **Dynamic Updates**

## Servicing will always trigger Dynamic Updates

- . Setup DU: Fixes to Setup binaries or any files that Setup uses for feature updates.
- SafeOS DU: Fixes for the 'safe OS' that we use to update Windows recovery environment (WinRE).
- Servicing Stack Update (SSU)/Critical DU: Fixes that are necessary to address the Windows 10 servicing stack issue and thus required to complete the feature update.
- Latest Cumulative Update (LCU)/General Distribution Release (GDR) DU: Installs the latest cumulative quality update.
- Language Pack (LP) and Feature On Demand (FOD) DU: Preserves users' installed language
  packs and optional features by reinstalling them.
- Driver DU: Latest version of applicable drivers that have been already published by manufacturers (OEMs and/or IHVs) into Windows Update and specifically targeted for Dynamic Update.



https://techcommunity.microsoft.com/t5/windows-it-pro-blog/the-benefits-of-windows-10-dynamic-update/ba-p/467847



# How can we run commands pre/post Feature Update?

Option 1: Setupconfig.ini

## **Option 2**:

- %windir%\System32\update\run\{GUID}\preinstall.cmd
- %windir%\System32\update\run\{GUID}\precommit.cmd
- %windir%\System32\update\run\{GUID}\failure.cmd
- %windir%\System32\update\run\{GUID}\success.cmd (2004)
- %windir%\System32\update\run\{GUID}\postuninstall.cmd (2004)

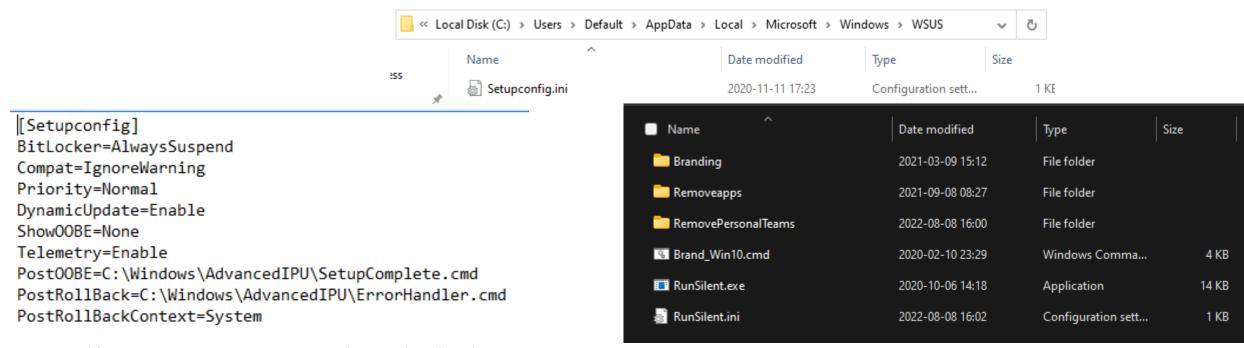
Use Runonce instead of Run for = runonce ;-)

<a href="https://docs.microsoft.com/en-us/windows-">https://docs.microsoft.com/en-us/windows-</a> hardware/manufacture/desktop/windows-setup-enable-custom-actions



# Setupconfig.ini = your new best friend

Drivers, commands and more = total control!

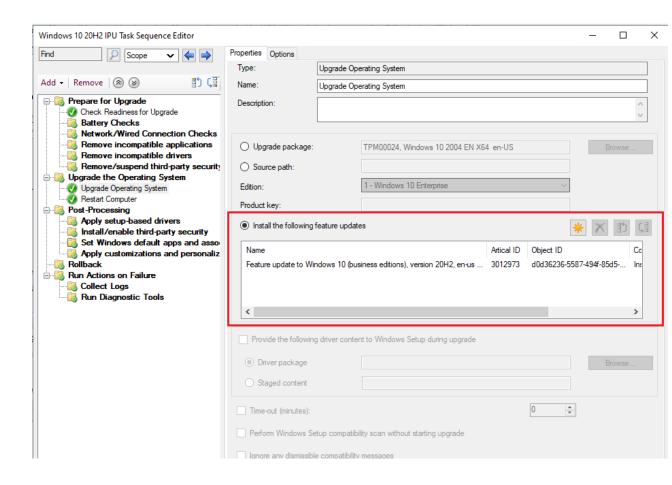


https://www.asquaredozen.com/2019/08/25/windows-10-feature-updates-using-setupconfig-ini-to-manage-feature-updates-in-the-enterprise/



### Feature update in Task Sequence

- Feature update in Task Sequence
- Why you ask?
  - IPU Source = 5,1 GB
  - \*.ESD = 3.8 GB
- Will always run Dynamic Updates
- Need to use setupconfig.ini



Size



# **Advanced Windows Servicing (MEMCM)**

- Community Tool
- DeploymentScheduler + IPUInstaller by Johan Schrewelius
- Either patched Media or .Esd

https://onevinn.schrewelius.it/

- Post commands
- Driver updates

Date modified	Туре
2021-02-07 13:43	File folder
2021-02-07 21:29	File folder
2021-02-07 14:56	File folder
2021-02-09 11:46	Application
	2021-02-07 13:43 2021-02-07 21:29 2021-02-07 14:56

- Branding 2021-02-07 13:43 File folder DefaultApps 2021-02-07 13:43 File folder Edge 2021-02-07 13:43 File folder 2021-02-07 13:44 File folder RemoveApps RemoveEdgeWelcome 2021-02-07 13:44 File folder StartMenu 2021-02-07 13:44 File folder StartMenuFiles 2021-02-07 13:44 File folder 2020-02-10 23:29 Windows Comma.. 4 KB Brand\_Win10.cmd ChangeSearchbarFor1903AndLater.ps1 Windows PowerS... 2 KB 2020-11-19 10:27 CleanUp.ps1 2021-02-02 17:01 Windows PowerS... 1 KB DefaultApps.ps1 2020-02-10 23:29 Windows PowerS... 11 KB Importlayout.ps1 2020-02-10 23:29 Windows PowerS... 10 KB RemoveApps.ps1 2020-02-10 23:29 Windows PowerS... 13 KB RunSilent.exe 2020-10-06 14:18 Application 14 KB RunSilent.ini 2021-02-07 14:57 Configuration sett... 1 KB

Name

nis PC > New Volume (E:) > Sources > OS Upgrades > IPU-JN > IPUApplication > SetupComplete >

Date modified

Type

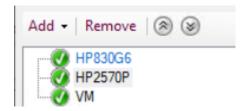


#### **IPUInstaller - drivers**

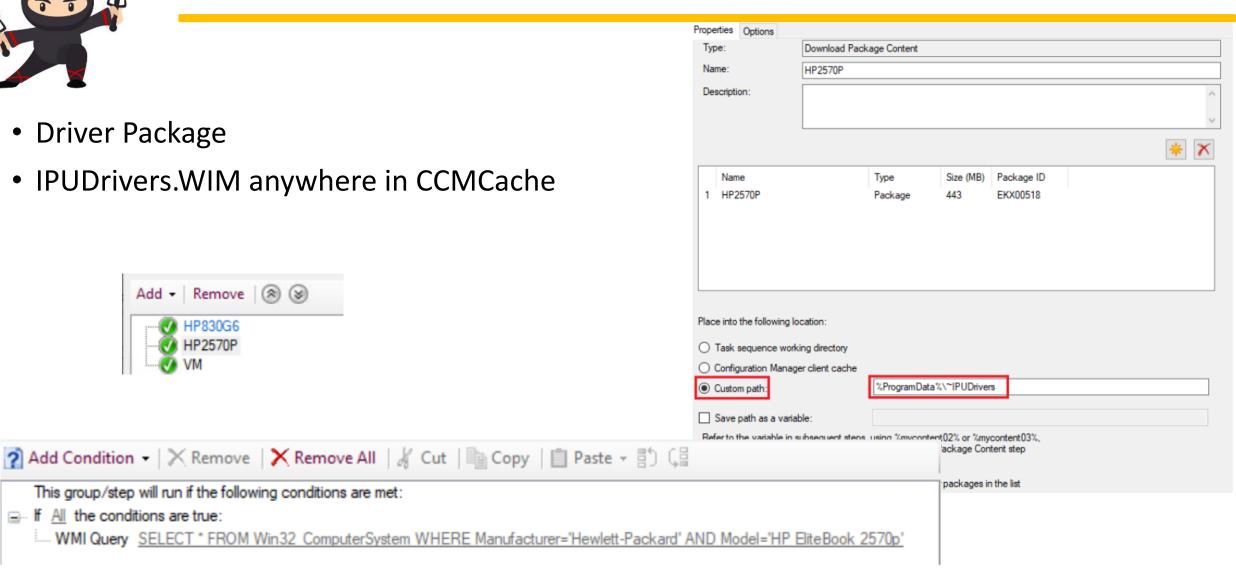
Driver Package

If All the conditions are true:

IPUDrivers.WIM anywhere in CCMCache



This group/step will run if the following conditions are met:







# Why move to Servicing?

- User experience / productivity
- Content from Microsoft Update?
- Better WFH experience
- Windows 10 20h2 -> Windows 11 21h1 (Fujitsu Lifebook)

Technology	Installation	Reboot	User Downtime	Total time
Task Sequence	14	9	25	23
Windows Servicing	38	4	4	42
IPUInstaller	12	3	3	15

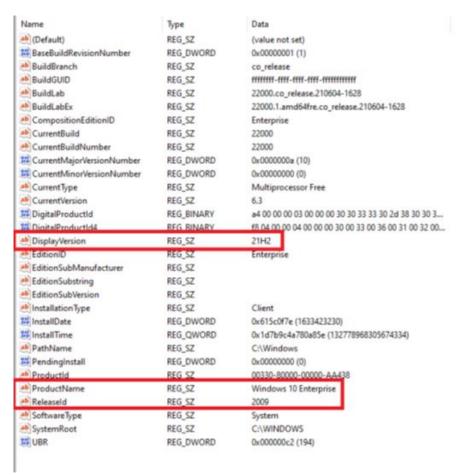
# **Customizations Windows 11**





## Windows Display version has not changed!

- ProductName and ReleaseID is "Deprecated"
- Great for compatibility
- Bad for CM queries, scripts etc...



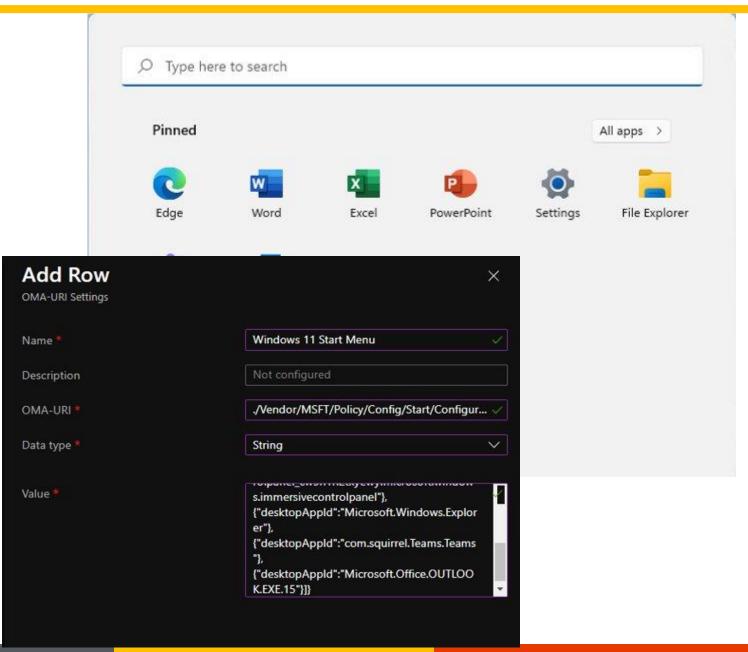


# Windows 11 = modern managed

 Most customizations are only possible using Intune/MDM

Example Start Menu, a custom start menu can only be deployed using Intune/MDM

Export-StartLayout PowerShell exports a \*.json file that only can be used with Intune



# Customized Start Menu using "OEMPinned"

 An option created for OEMs which makes it possible to at modify some parts during OSD

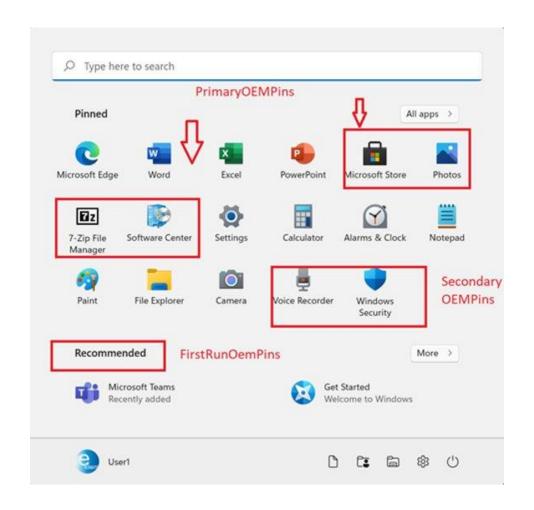
4 st Primary OEMPins

4 st Secondary OEMPins

1st Recommended Managed with Layoutmodification.json

Copy the Layoutmodification.json during OSD:

Copy-Item -Path \$PSScriptRoot'\LayoutModification.json' -Destination \$env:SystemDrive'\Users\Default\Appdata\ Local\Microsoft\Windows\Shell'





### Sample LayoutModification.json

```
"primaryOEMPins": [
        "desktopAppLink": "%ALLUSERSPROFILE%\\Microsoft\\Windows\\Start Menu\\Programs\\7-Zip\\7-Zip File Manager.lnk"
        "desktopAppLink": "%ALLUSERSPROFILE%\\Microsoft\\Windows\\Start Menu\\Programs\\Microsoft Endpoint Manager\\Configuration Manager\\Software Center.
        "desktopAppLink": "%ALLUSERSPROFILE%\\Microsoft\\Windows\\Start Menu\\Programs\\Outlook.lnk"
        "packagedAppId": "Microsoft.WindowsTerminal_8wekyb3d8bbwe!App"
"secondaryOEMPins": [
        "packagedAppId": "Microsoft.WindowsCamera_8wekyb3d8bbwe!App"
        "packagedAppId": "Microsoft.WindowsSoundRecorder 8wekyb3d8bbwe!App"
        "packagedAppId": "Microsoft.SecHealthUI 8wekyb3d8bbwe!SecHealthUI"
"firstRunOEMPins": [
        "packagedAppId": "Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe!App"
```

# **Customized taskbar**



- Still possible using all the "old" options, Start-Layout; GPO, Import-startlayout, Intune.
- Note: Windows 10 Start Menu GPO hits a Windows 11 computer with a full Startlayout and Taskbar config, users can only unpin apps from start and NOT pin.
- Import-StartLayout LayoutPath
   \$PSScriptRoot\Startmenustd.x
   ml -MountPath
   \$env:SystemDrive\

```
Taskbar.xml - Notepad
File Edit Format View Help
k?xml version="1.0" encoding="utf-8"?>
<LayoutModificationTemplate</pre>
    xmlns="http://schemas.microsoft.com/Start/2014/LayoutModification"
    xmlns:defaultlayout="http://schemas.microsoft.com/Start/2014/FullDefaultLayout"
    xmlns:start="http://schemas.microsoft.com/Start/2014/StartLayout"
    xmlns:taskbar="http://schemas.microsoft.com/Start/2014/TaskbarLayout"
    Version="1">
  <CustomTaskbarLayoutCollection PinListPlacement="Replace">
    <defaultlayout:TaskbarLayout>
      <taskbar:TaskbarPinList>
        <taskbar:DesktopApp DesktopApplicationID="MSEdge"/>
        <taskbar:DesktopApp DesktopApplicationID="Microsoft.Windows.Explorer"/>
      </taskbar:TaskbarPinList>
    </defaultlayout:TaskbarLayout>
 </CustomTaskbarLayoutCollection>
</LayoutModificationTemplate>
```



#### **Start Location and more**

Start button alignment – 0 = Left [HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced] "TaskbarAl"=dword:00000000

Remove Task View from the Taskbar [KEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced] "ShowTaskViewButton"=dword:00000000

Remove Chat from the Taskbar [KEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced] "TaskbarMn"=dword:00000000

Remove Widgets from the Taskbar [KEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced] "TaskbarDa"=dword:00000000

Remove Search from the Taskbar [HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Search] "SearchboxTaskbarMode"=dword:00000000





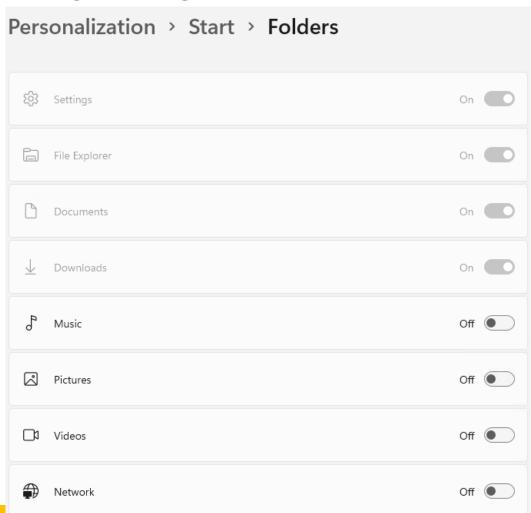
### **Enable Start Menu folders**

A great feature not enabled by default, can only be managed using Intune/MDM

PowerShell WMI/Bridge to the rescue Downside, end users cannot change it



<u>Configure Windows 11 Start Menu folders using PowerShell - CCMEXEC.COM - Enterprise Mobility</u>







Points to personal Microsoft Teams

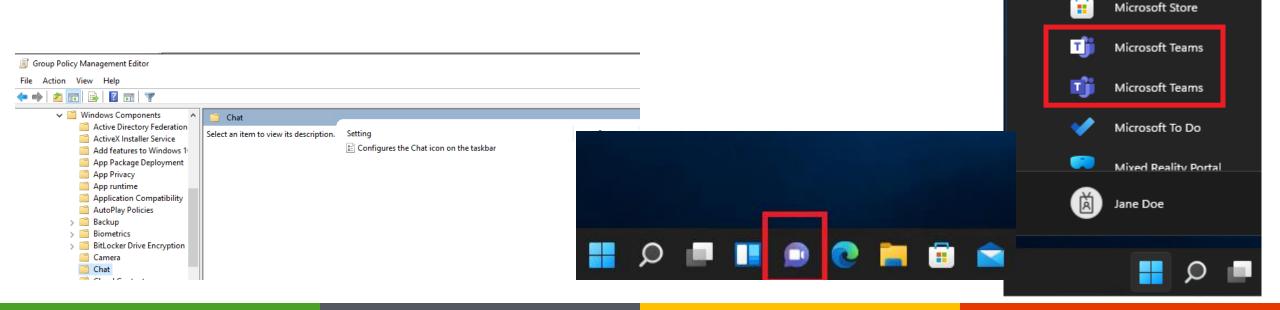
Can be disabled on modern managed clients using:

OMA-URI = "./Device/Vendor/MSFT/Policy/Config/Experience/ConfigureChatIcon"

Registry:[KEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced]

"TaskbarMn"=dword:00000000

**Group Policy** 





#### **Disable Personal Teams**

Tĵi

Disabled by adding Registry value:

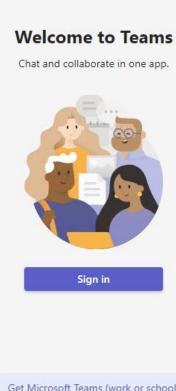
"HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Communications\

ConfigureChatAutoInstall

Challenge: owned by TrustedInstaller

- During OSD Unattend.xml
- During Servicing SetupConfig.ini
- AutoPilot Proactive remediation/script

SetAcl.exe to take ownership and add the value.



Get Microsoft Teams (work or school)





# Is uninstalling built-in apps still a thing?

- Uninstall or not?
- New builtin apps in Windows 11
  - PowerAutomate desktop, Microsoft Teams personal

Ł	3   Select DisplayName, PackageName, Version, InstallFolder, Size   Out-GridView					
	Filter					
	dd criteria ▼					
	DisplayName	PackageName	Version	InstallFolder	Size	
	Microsoft.YourPhone	Microsoft.YourPhone_1.22022.180.0_neutral_~_8wekyb3d8bbwe	1.22022.180.0	C:\Program Files\WindowsApps\Microsoft.YourPhone_1.22022.180.0_neutral_~_8wekyb3d8bbwe	310,407,689.00	
	microsoft. windows communication sapps	$microsoft.windows communication sapps\_16005.14326.20858.0\_neu$	16005.1432	$C: \ Program \ Files \ \ Windows Apps \ \ microsoft. windows communication sapps \ \ 16005.14326.20858.0\_neu$	214,925,848.00	
	Microsoft.Windows.Photos	Microsoft.Windows.Photos_2021.21120.8011.0_neutral_~_8wekyb3	2021.21120	$C: \label{lem:cappa} C: \label{lem:cappa} C: \label{lem:cappa} Files \label{lem:cappa} Windows \label{lem:cappa} Photos \label{lem:cappa} 2021.21120.8011.0 \label{lem:cappa} neutral \label{lem:cappa} -28 we kyb \label{lem:cappa} 3.000000000000000000000000000000000000$	197,229,166.00	
	Microsoft.WindowsStore	Microsoft.WindowsStore_22203.1401.21.0_neutral_~_8wekyb3d8bb	22203.1401	$C: \ Program \ Files \ \ Windows Apps \ \ \ Microsoft. Windows Store \ \ 22203.1401.21.0 \ \ neutral \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	150,674,691.00	
	MicrosoftTeams	MicrosoftTeams_22006.600.1133.7409_x648wekyb3d8bbwe	22006.600.1	C:\Program Files\WindowsApps\MicrosoftTeams_22006.600.1133.7409_x648wekyb3d8bbwe	93,947,119.00	
	${\it Microsoft.} Microsoft Solitaire Collection$	$Microsoft. Microsoft Solitaire Collection\_4.12.3171.0\_neutral\_\sim\_8 wek$	4.12.3171.0	$C: \label{lem:condition} C: \label{lem:condition} C: \label{lem:condition} Program Files \label{lem:condition} Windows Apps \label{lem:condition} Microsoft Solitaire Collection\_4.12.3171.0\_neutral\_\sim\_8 we k$	60,347,508.00	
	Microsoft.549981C3F5F10	Microsoft.549981C3F5F10_4.2203.4603.0_neutral_~_8wekyb3d8bbwe	4.2203.4603.0	$C:\Program\ Files\WindowsApps\Microsoft.549981C3F5F10\_4.2203.4603.0\_neutral\_\sim\_8wekyb3d8bbwe$	49,295,136.00	
	Microsoft.XboxGamingOverlay	Microsoft.XboxGamingOverlay_5.722.3302.0_neutral_~_8wekyb3d8	5.722.3302.0	$C: \label{lem:cappack} $$ C: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	48,071,159.00	
	Microsoft.ZuneVideo	Microsoft.ZuneVideo_2019.22021.10291.0_neutral_~_8wekyb3d8bb	2019.22021	$C: \label{lem:condition} C: \label{lem:condition} C: \label{lem:condition} Program Files \label{lem:condition} Windows Apps \label{lem:condition} Microsoft. Zune \label{lem:condition} Zune \label{lem:condition} V: \label{lem:condition} Program Files \label{lem:condition} Windows \label{lem:condition} Apps \label{lem:condition} Windows \label{lem:condition} Apps \label{lem:condition} Windows \label{lem:condition} Program Files \label{lem:condition} Windows \label{lem:condition} Apps \label{lem:condition} Windows \label{lem:condition} Apps \label{lem:condition} Windows $	37,797,561.00	
	Microsoft.StorePurchaseApp	$Microsoft. Store Purchase App\_12109.1001.10.0\_neutral\_ \sim\_8 we kyb3d$	12109.1001	$C: \label{lem:capping} $$C: \Pr{program Files} \windows Apps \windows \windows Apps \windows Apps \windows Apps \windows \windows Apps \windows \windows Apps \windows \win$	37,502,130.00	
	${\it MicrosoftWindows. Client. Web Experience}$	$MicrosoftWindows. Client. We b Experience\_421.20070.95. 0\_neutral\_{\sim}$	421.20070.9	$C: \label{lem:condition} C: \label{lem:condition} Program Files \label{lem:condition} Windows Apps \label{lem:condition} Apps \label{lem:condition} Microsoft Windows \label{lem:condition}. Client \label{lem:condition} We be Experience \cite{A21.20070.95.0} neutral A21$	35,986,673.00	
	Microsoft.ZuneMusic	Microsoft.ZuneMusic_11.2202.45.0_neutral_~_8wekyb3d8bbwe	11.2202.45.0	C:\Program Files\WindowsApps\Microsoft.ZuneMusic_11.2202.45.0_neutral_~_8wekyb3d8bbwe	34,634,868.00	
	Microsoft.WindowsFeedbackHub	Microsoft.WindowsFeedbackHub_2022.317.2207.0_neutral_~_8wek	2022.317.22	$C: \ Program \ Files \ \ Windows Apps \ \ \ Microsoft. Windows Feedback Hub\_2022.317.2207.0\_neutral\_ \sim \_8 wek$	33,006,672.00	
	Microsoft.VCLibs.140.00	Microsoft.VCLibs.140.00_14.0.29231.0_x648wekyb3d8bbwe	14.0.29231.0	C:\Program Files\WindowsApps\Microsoft.VCLibs.140.00_14.0.29231.0_x648wekyb3d8bbwe	32,107,153.00	
	M. OM. COM. III	14. 614. 664. 11. 46644646466 6 . 1.15	10 0110 101	CID . FI 197 1 A 197 CIE COS 111 4004404040 . 1 0 1 1 0	20 502 025 00	



### Windows 11 Summary

- Best managed from the cloud
- Support for Windows 10 ends October 14, 2025

Listing	Start Date	Retirement Date
Windows 10 Enterprise and Education	Jul 29, 2015	Oct 14, 2025

### Call to action



• Move now!

• Take the three years left of Windows 10 support to transition to an AAD join and Intune managed device

= Modern Workplace!

• For the rest – Co-management





### **Thank You**

