

What's new and how
to deploy Windows
10 version 1709

What's new in Windows 10
version 1709

Removed and Deprecated features

- SMBv1 is disabled by default in Enterprise and Education
 - Only enable if necessary for critical applications (upgrade those!)
 - <https://support.microsoft.com/en-us/help/4034314/smbv1-is-not-installed-windows-10-and-windows-server-version-1709>
- PowerShell 2.0 is now deprecated – start using 5.0+
- TPM.msc and TPM Remote Management
 - Replaced by new user interface in upcoming releases
- Outlook Express is now removed
- EMET usage is blocked

Windows Defender <X>

- Windows Defender Exploit Guard
 - Exploit protection for apps in your organization
 - Extends network protection for malware and social engineering from SmartScreen
 - Controlled Folder Access protects files in key system folders from changes by malware
 - <https://docs.microsoft.com/windows/threat-protection/windows-defender-exploit-guard/windows-defender-exploit-guard>
- Windows Defender Application Guard
 - Isolate (with Hyper-V container) enterprise-defined untrusted sites in Edge or Internet Explorer
 - <https://docs.microsoft.com/windows/threat-protection/windows-defender-application-guard/wd-app-guard-overview>
- Windows Defender Device Guard rebranded as Windows Defender Application Control

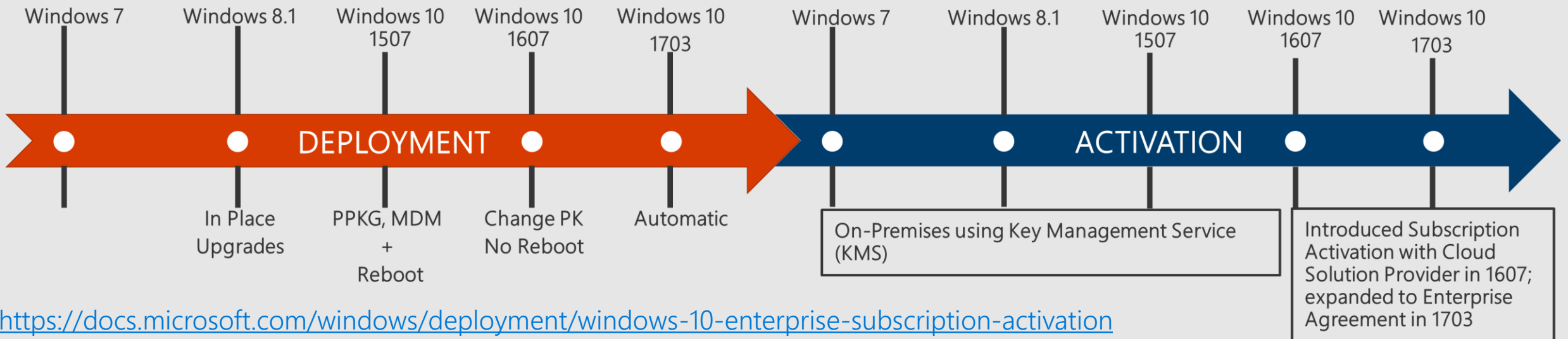
Demo

Windows Automatic Redeployment

- Reset device back to a fully configured and known IT-approved state
 - Retains Azure AD registration and MDM enrollment
 - Remove personal files, apps and settings
 - Reset Windows from the Lock screen (CTRL + WIN + R)
- Supported from Windows 10 version 1709 and later
- Azure AD joined devices
- Disabled by default
 - `./Vendor/MSFT/Policy/Config/CredentialProviders/DisableAutomaticReDeploymentCredentials`
 - Default value: 1 (disabled)
- Roadmap
 - Support for Active Directory joined devices
 - Initiate remotely from MDM service for multiple devices

Windows 10 Subscription Activation

- Leverage Azure AD for license management, licenses assigned to users
- Support for Azure AD or [Hybrid Azure AD](#) joined devices
- Modern way without keys and restarts
- Automatically upgrades a Windows 10 Pro device to Enterprise (if licensed for E3 or E5)
 - Remove license for user, device gets downgraded automatically to Pro
- Available for EA, MPSA and CSP
- Support for Education coming in mid of 2018

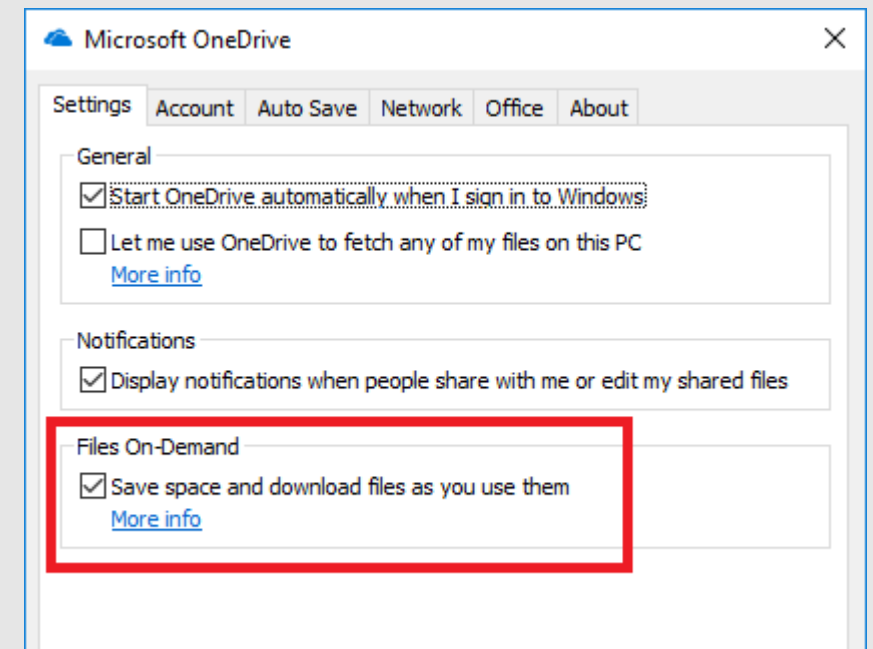
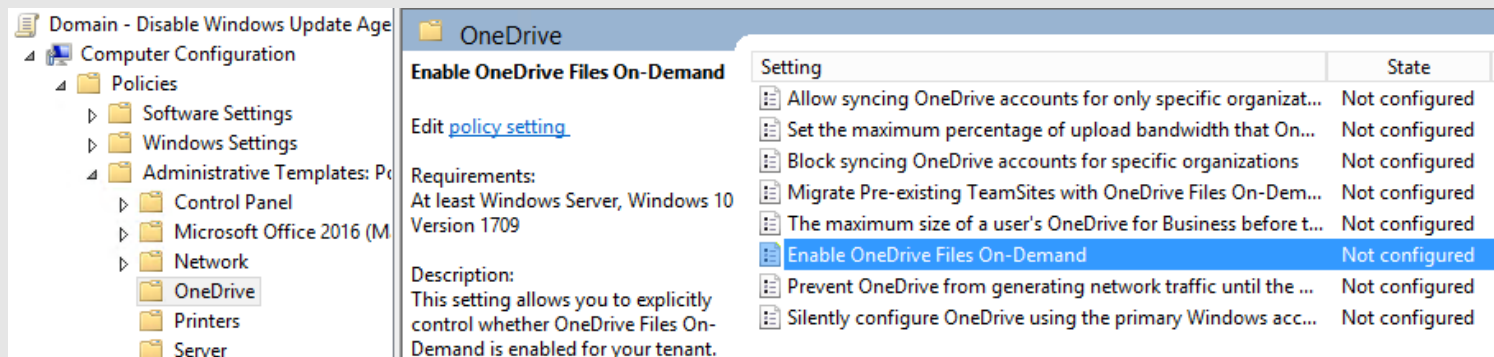


Windows 10 S

- Locked down version of Windows 10 Pro
 - Designed for students and meant to take on ChromeBook
- Use apps from Microsoft Store exclusively
 - Only runs executable code signed with a Windows, WHQL, ELAM or Store certificate
 - This includes apps and drivers
- Microsoft Edge is default browser
- Testing Windows 10 S:
 - <https://docs.microsoft.com/en-us/education/windows/test-windows10s-for-edu>
- Planning for deployment of Windows 10 S devices
 - <https://docs.microsoft.com/en-us/windows-hardware/manufacture/desktop/windows-10-s-planning>

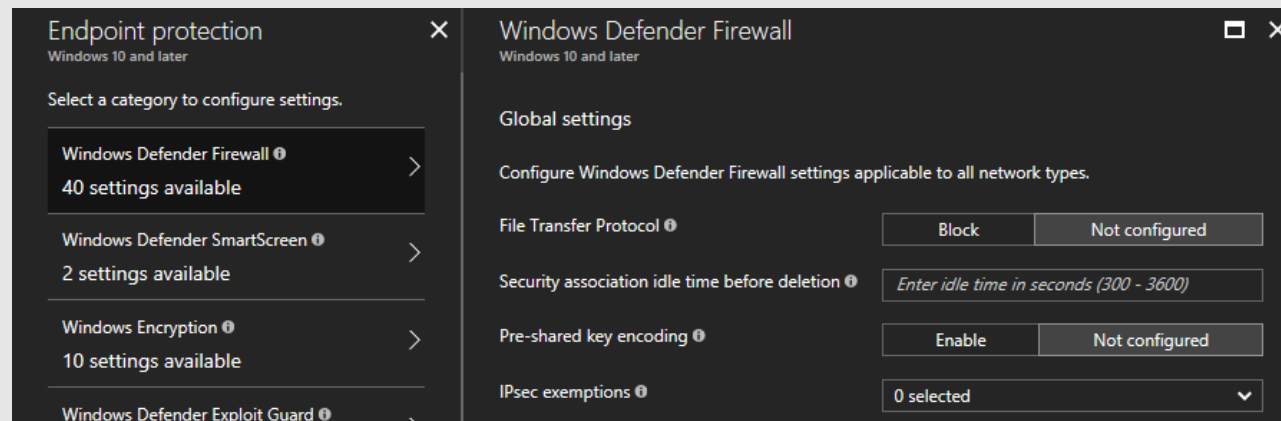
OneDrive Files on Demand

- Store files in OneDrive and/or SharePoint Online team sites
 - Save space by making files online only
 - Set files and folder to be always available locally
- Works with both Personal and Work account
- See thumbnails for 270+ different file types, without having the application installed
- ADMX files:
 - %localappdata%\Microsoft\OneDrive*<Build>*\adm



New MDM/GPO Policies

- Auto MDM Enrollment with AAD Token
 - Requires AD-joined device running Windows 10 version 1709 or later
 - MDM service is configured in Azure AD
 - <https://docs.microsoft.com/windows/client-management/mdm/enroll-a-windows-10-device-automatically-using-group-policy>
- Firewall CSP – Finally
 - Configure Windows Defender Firewall
 - Add custom rules, manage profiles etc.
 - <https://docs.microsoft.com/en-us/windows/client-management/mdm/firewall-csp>



Demo

New Hyper-V features

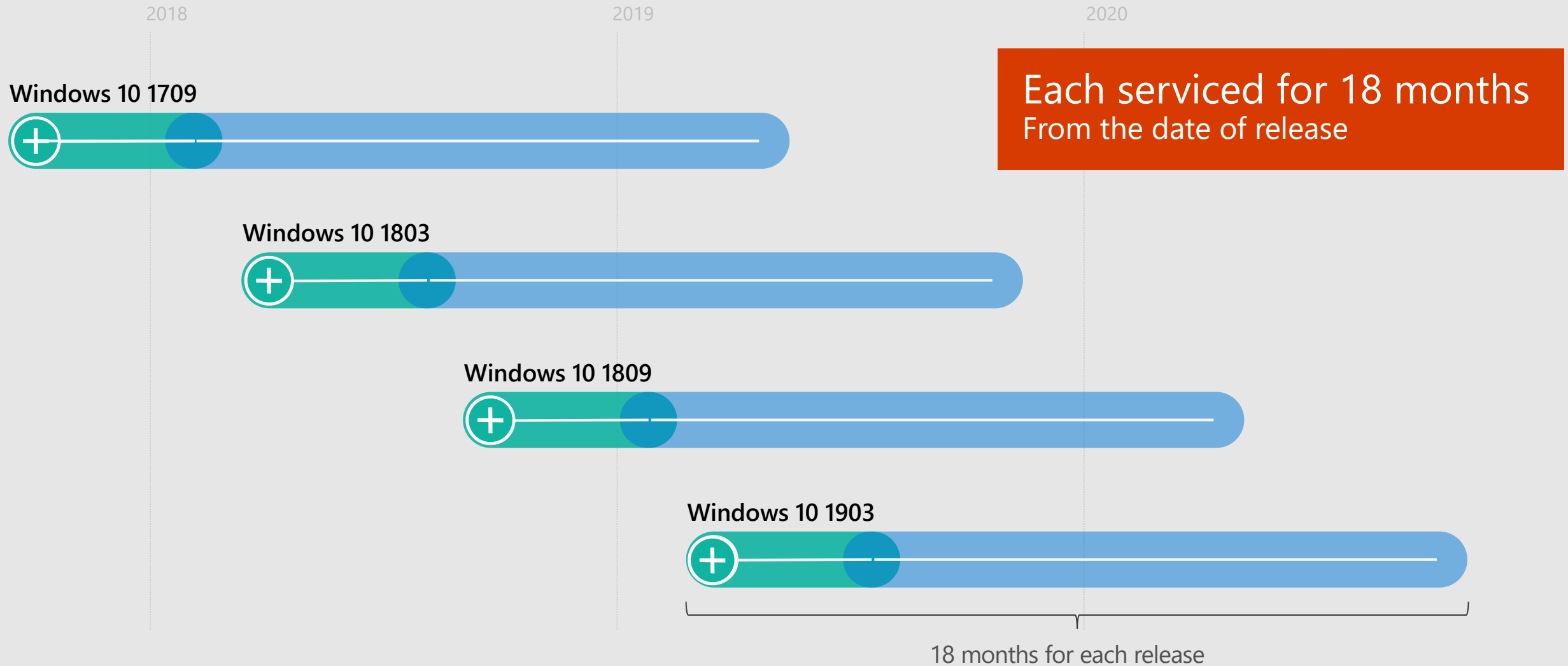
- New Quick Create window for virtual machines
- Default Switch
 - Connected virtual machines will have access to host's network (WiFi, a dock or Ethernet) using NAT
 - Created when Hyper-V is enabled – won't lose network connectivity
 - Can't be deleted or renamed
 - Automatically assigns IP addresses to virtual machines (DNS and DHCP)
- Checkpoints are created when the virtual machine starts
- Battery pass-through when used on laptops / tablets
- Share a virtual machine and move to another host

Resources

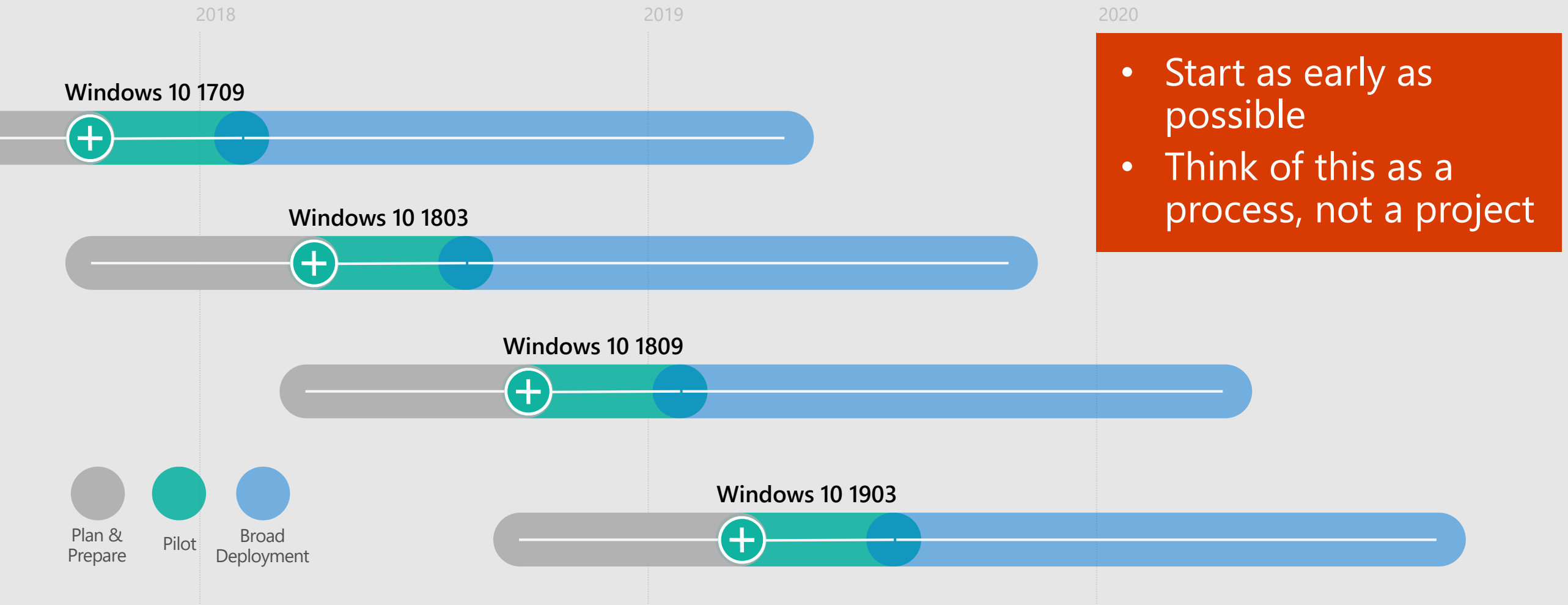
- What's new in Windows 10 version 1709
 - <https://docs.microsoft.com/en-us/windows/whats-new/whats-new-windows-10-version-1709>
 - <https://docs.microsoft.com/en-us/windows-hardware/get-started/what-s-new-in-windows>
- What's new in MDM enrollment and management in Windows 10 version 1709
 - <https://docs.microsoft.com/en-us/windows/client-management/mdm/new-in-windows-mdm-enrollment-management#whatsnew1709>
- Deprecated features in Windows 10 version 1709
 - <https://support.microsoft.com/en-us/help/4034825/features-that-are-removed-or-deprecated-in-windows-10-fall-creators-up>

Windows as a Service Updates

Staying Current with Windows as a Service

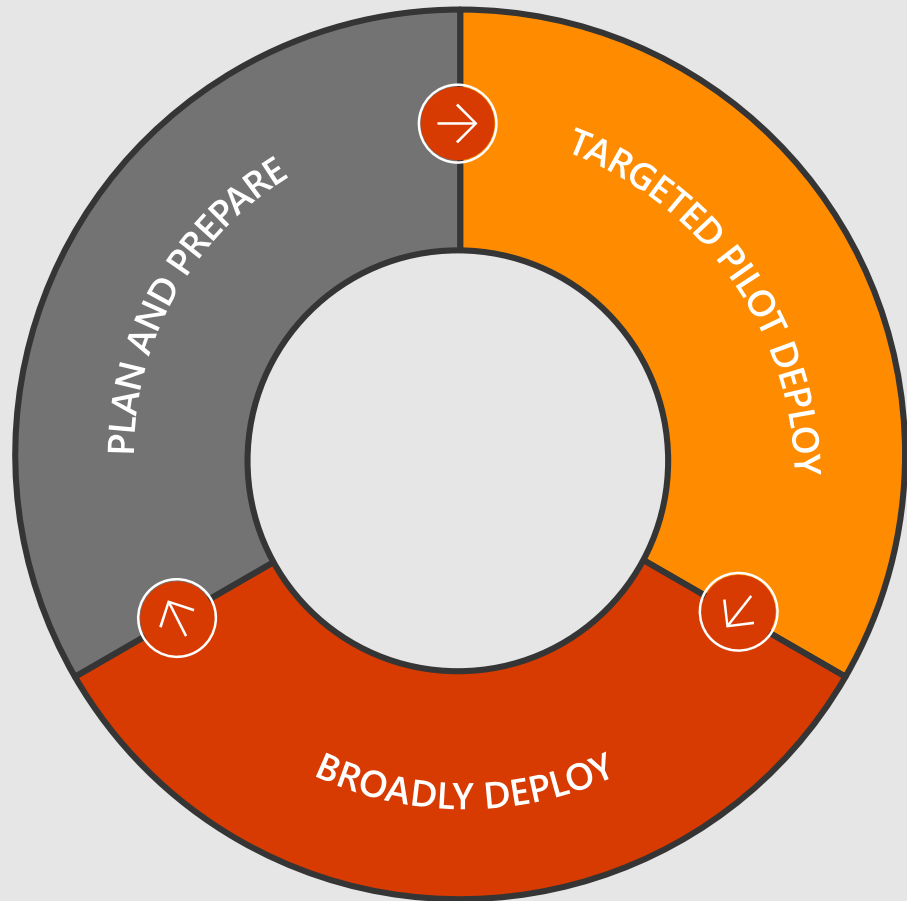


Plan, Pilot and Deploy



Windows as a service

Moving from project to process



■ Plan and Prepare

- Work with Insider Preview builds
- Provide feedback on features and compatibility
- Identify features to be implemented

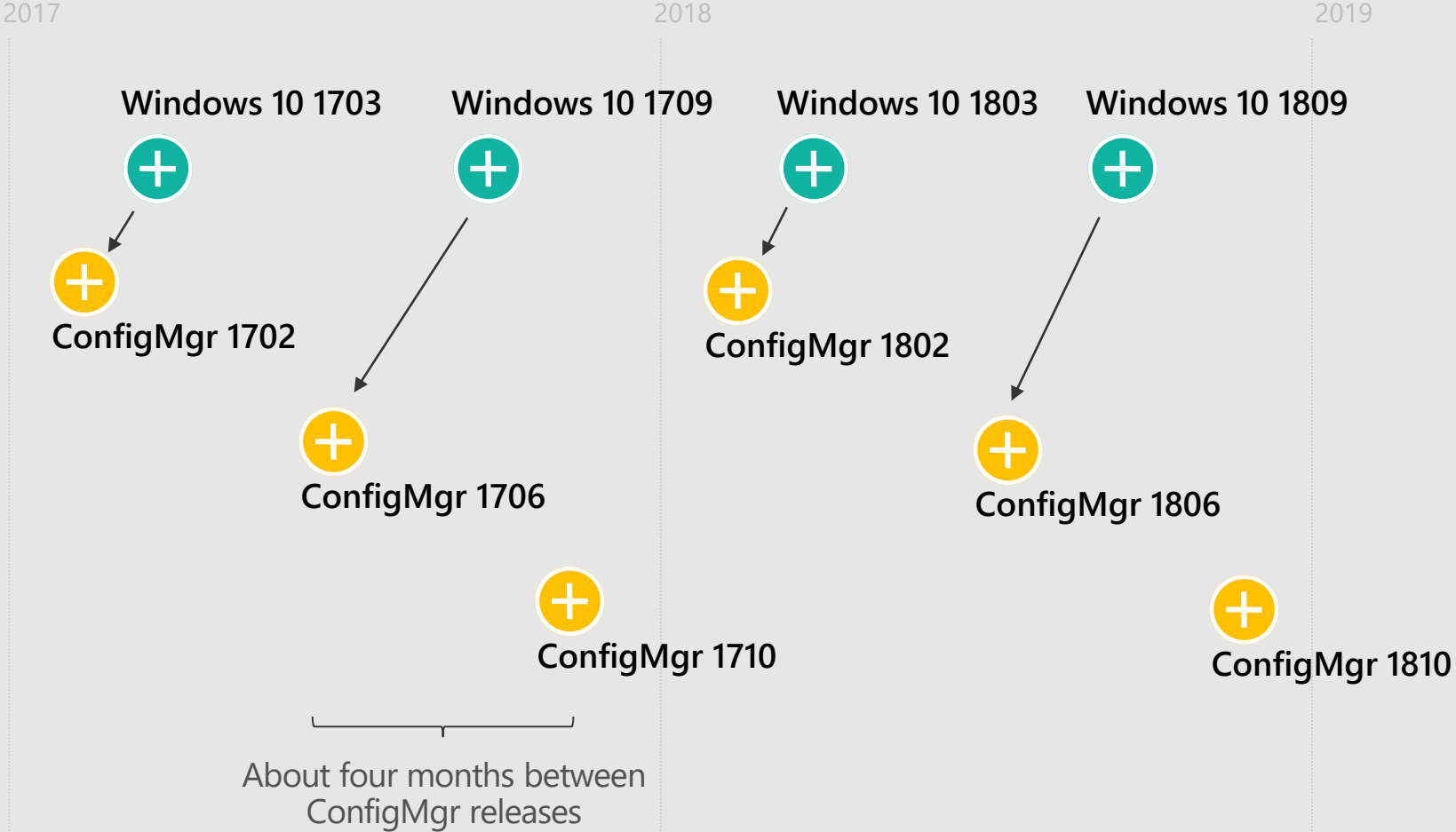
■ Targeted Pilot Deployments

- Validate apps, devices and infrastructure to ensure compatibility with the new release
- React to issues encountered
- Deploy and configure new features

■ Broad Deployment

- Deploy to all the devices in the organization
- React to any additional issues encountered
- Focus on risk reduction

Windows as a Service and ConfigMgr CB



Supported by
ConfigMgr Current
Branch

Enterprise Rings for Feature Updates



PLAN & DEVELOP PILOT & VALIDATE BROAD DEPLOYMENT

	Plan and Develop	Pilot and Validate	Broad Deployment
Purpose	Early evaluation of new features	Pilot and Validate the next SAC build before broad deployment	Production
Release cadence	Monthly	Semi Annual	Semi Annual (same build as SAC-T with approx. 4 month delay)
Channel	Monthly Channel	Semi Annual Channel - Targeted	Semi Annual Channel
Audience	IT Pros and Developers who need to evaluate new features	Representative sample of production devices derived from Analytics	All remaining Production device



Deploying Windows 10 version 1709

Windows 10 ADK Support

Windows 10 ADK version	Configuration Manager 1610	Configuration Manager 1702	Configuration Manager 1706
1607	✔	BC	✘
1703	✘	✔	✔
1709	✘	✘	✔
Key			
✔ = Supported - Windows recommends using the Windows ADK that matches the version of Windows you are deploying. For example, use the Windows ADK for Windows 10 version 1703 when deploying Windows 10 version 1703.			
BC = Backward compatible - This combination is not tested but should work. Any known issues or caveats will be documented.			
✘ = Not supported			

Reference Image

- Sysprep fails (*IMAGE_STATE_GENERALIZE_RESEAL_TO_OOBE*)
 - <https://deploymentresearch.com/Research/Post/615/Fixing-why-Sysprep-fails-in-Windows-10-due-to-Windows-Store-updates>
- Remove built-in apps
 - <https://github.com/SCConfigMgr/ConfigMgr/blob/master/Operating%20System%20Deployment/Invoke-RemoveBuiltinApps.ps1>
 - <https://virtualfeller.com/2017/04/19/optimize-vdi-windows-10-default-apps-original-anniversary-and-creator-updates/>
- Build reference image with MDT
 - <https://deploymentresearch.com/Research/Post/654/Building-a-Windows-10-v1709-reference-image-using-MDT>

Image Name	Index
Windows 10 Education	1
Windows 10 Education N	2
Windows 10 Enterprise	3
Windows 10 Enterprise N	4
Windows 10 Pro	5
Windows 10 Pro N	6

Answer Files

- New answer file settings
 - Microsoft-Windows-Shell-Setup-OEMInformation-SupportProvider
 - Microsoft-Windows-Embedded-UnifiedWriteFilter-OverlayFlags
 - Microsoft-Windows-WorkstationService-AllowInsecureGuestAuth
- Deprecated answer file settings
 - Microsoft-Windows-Shell-Setup-OEMInformation-HelpCustomized
 - Microsoft-Windows-Shell-Setup-OEMInformation-Logo
 - Microsoft-Windows-Shell-Setup-OEMInformation-SupportHours
 - Microsoft-Windows-Shell-Setup-OEMInformation-SupportPhone
 - Microsoft-Windows-Shell-Setup-OEMInformation-Model
 - Microsoft-Windows-Shell-Setup-OEMInformation-Manufacturer
- Removed answer file settings
 - Microsoft-Windows-Shell-Setup-VisualEffects-FontSmoothing
 - Microsoft-Windows-Shell-Setup-Themes-ScreenSaver

In-Place Upgrade

Windows Feature upgrade possibilities

	Task Sequence	Servicing Plan
Upgrade from Windows 7 or Windows 8.1	Yes	No
Upgrade Windows 10 build-to-build	Yes	Yes
User experience	Task sequence progress	Software Update
Administrative effort: Content acquisition	Manually import OS upgrade packages and manual distribution	Content automatically acquired and distributed based on criteria
Administrative effort: deployment rings	Manually per deployment	Deployment automatically created based on criteria
Include drivers	Yes	Planned
Include language packs	Yes	Planned
Compatibility pre-assessment	Yes	Planned
Third-party disk encryption	Yes (custom)	Planned
Pre- and Post-actions	Yes	

Drivers, BIOS & Language Packs

- Update drivers
 - <http://www.scconfigmgr.com/modern-driver-management/>
- Update BIOS
 - <http://www.scconfigmgr.com/modern-bios-management/>
- Retain Language Packs
 - <http://www.scconfigmgr.com/2017/11/06/automatically-retain-installed-language-packs-during-windows-10-servicing/>
 - <https://blogs.technet.microsoft.com/system-center-configuration-manager-operating-system-deployment-support-blog/2017/05/24/how-to-upgrade-windows-clients-with-multiple-languages-installed-to-windows-10/>

Demo

Q&A