

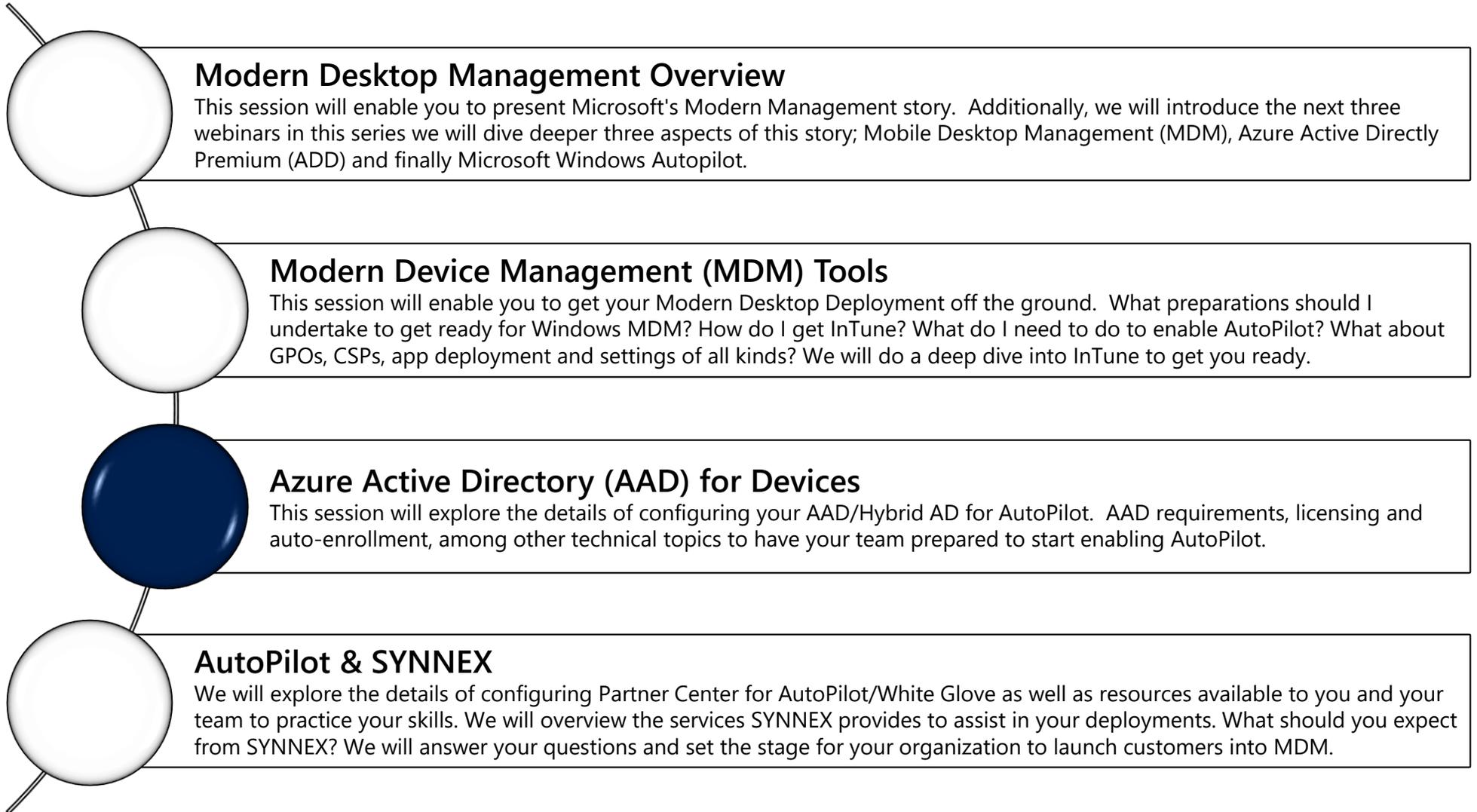


Modern Desktop Management Series Session 3

SYNNEX & Microsoft

August 7, 2019 Greenville, SC

Modern Desktop Management Series Sessions



Our Speakers

- John Petersen

SYNNEX Microsoft Sales Engineer

John's career includes 14 years in technical roles at Microsoft focused on delivering identity, security, collaboration & deployment solutions to Fortune 100 clients. He now brings these enterprise-class solutions to companies of all sizes.

- Mark Layton

SYNNEX Program Manager BTO Integration Team

Mark helps partners navigate the various service offerings offered by SYNNEX. Mark helps to scope opportunities that require services and match the capabilities of the Integration Team to the partner's needs. He also assists with new service offerings including first article builds and helps to competitively price services based on the scope of work required.

- Scott Birdzell

Microsoft Partner Technology Strategist

Scott is in his 9th year with Microsoft. In his prior roles he launched Surface Hub 1, worked as an Account Technology Strategist (ATS) in the Desert Mountain Region as well and a Lync TSP in his early days with Microsoft. He has had special assignment including Windows XP to Windows 7 migration accountability in the Southwest as well as being a field advocate for the Surface 2 engineering team.

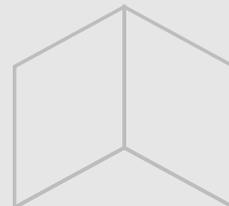
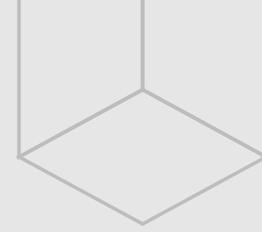
- Joseph Losinski

Microsoft Partner Technology Strategist

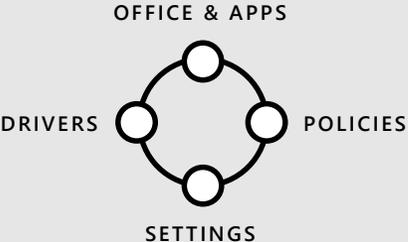
With more than 20 years of experience using technology to enable companies, Joe focuses on the digital transformation of partners and customers by leveraging cloud adoption and enablement strategies. He helps organizations understand how Microsoft cloud solutions drive business value, improve operations and empowers the workforce to extend customer reach.



Windows Autopilot and Azure Active Directory (AAD)



Traditional Windows deployment // The old way

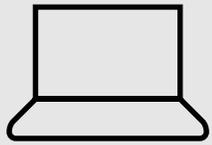


Build a custom image, gathering everything else that's necessary to deploy

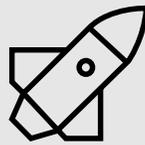
Deploy image to a new computer, overwriting what was originally on it

Time means money, making this an expensive proposition

Modern Windows deployment // The new way



Un-box and turn on
off-the-shelf Windows PC



Transform with minimal
user interaction



Device is ready
for productive use

Device lifecycle management with Windows Autopilot and Intune

Key Benefits:

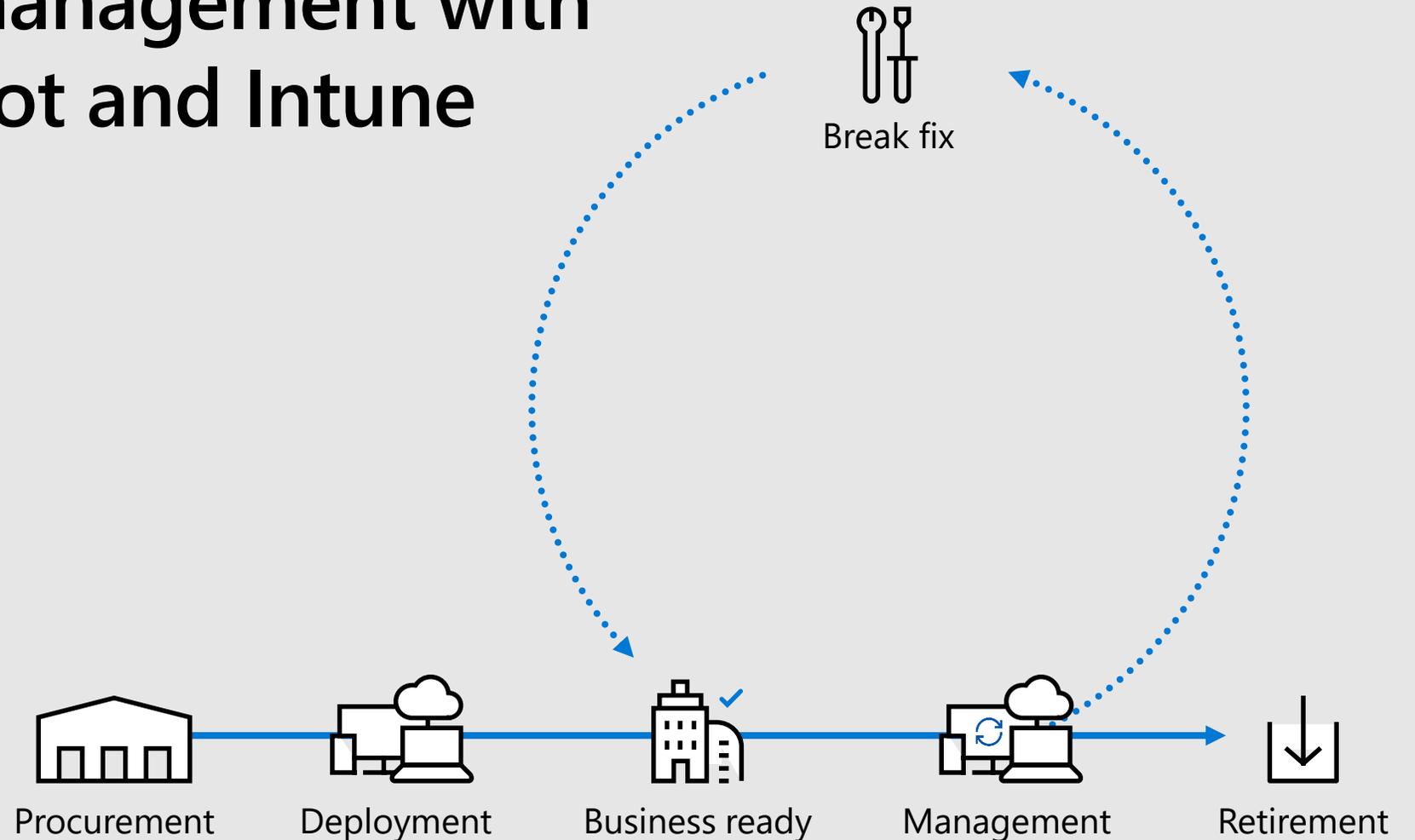
No more maintenance of images and drivers

No need for IT to touch the devices

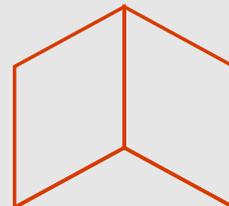
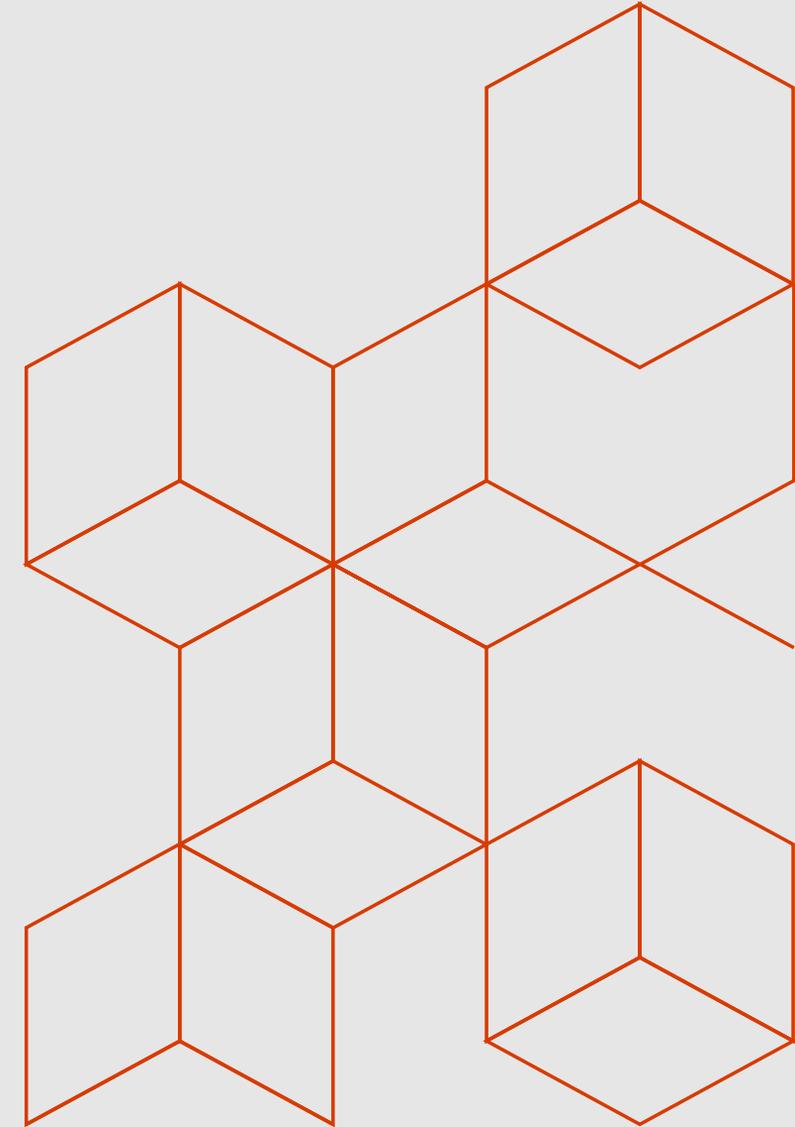
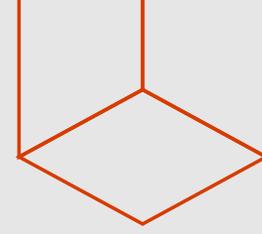
Simple process for users and IT

Integration in the device supply chain

Reset device back to a business ready state



Windows Autopilot Public Service Announcement



Q&A with the AutoPilot Program Manager

<https://oofhours.com/2019/07/28/join-me-for-a-qa-session/>

https://oofhours.com/2019/07/28/join-me-for-a-qa-session/

Out of Office Hours

MICHAEL NIEHAUS' TECHNOLOGY RAMBLINGS

WEDNESDAY, AUGUST 7TH, 2019

Search... 

[HOME](#) | [RSS](#)

WINDOWS AUTOPILOT

Join me for a Q&A session

BY MICHAEL NIEHAUS ON JULY 28, 2019 • (9 COMMENTS)

One of the things that I've wanted to do for a while is to have an open Q&A call – you know, the typical “office hours” concept from your college days, where someone says they’ll be available during certain times for any questions you might have. In my case, I’m not an instructor, and true to the domain name of this site I fully expect to do this from “out of the office” – with any luck, I’ll be sitting at home in my recliner, contemplating what I might want for breakfast before heading into the office.

To cover a broad range of time zones, I've picked 8am Pacific Daylight Time (PDT), on Thursday, August 1st. Here are the connection details:

[Join Microsoft Teams Meeting](#)

Conference ID: 330 973 15#

[Local numbers](#)

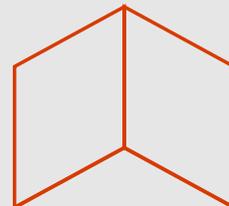
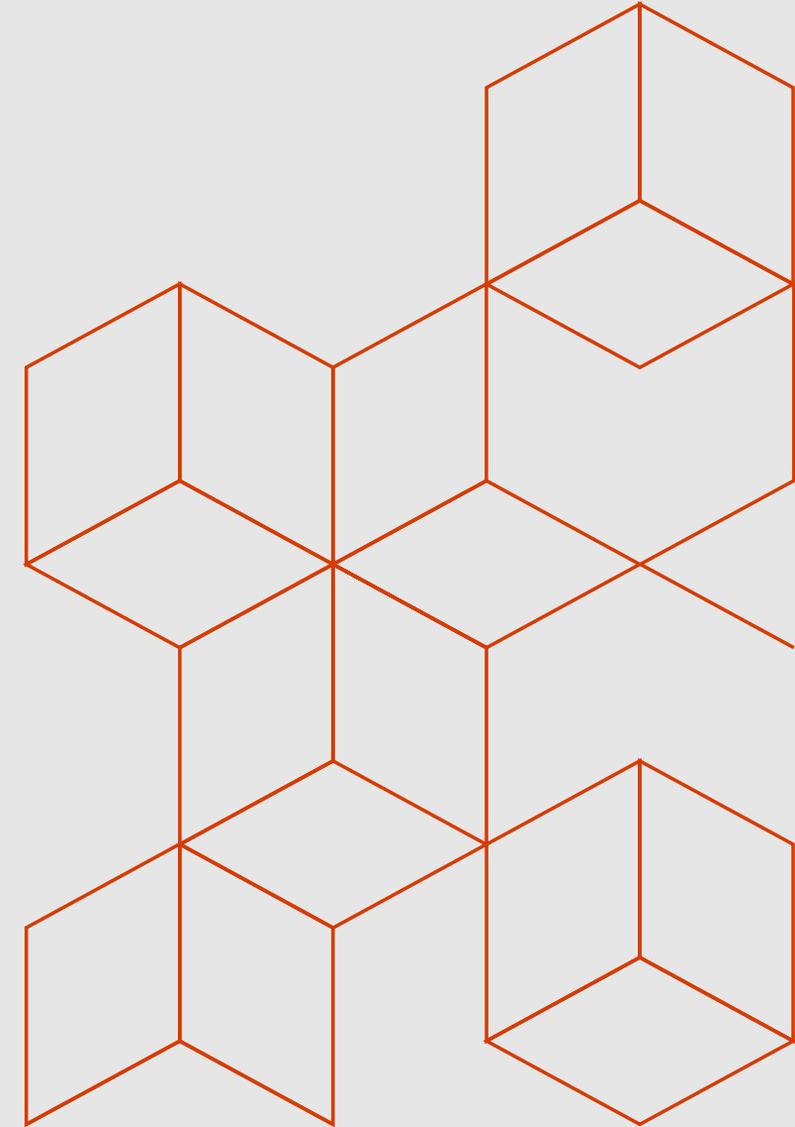
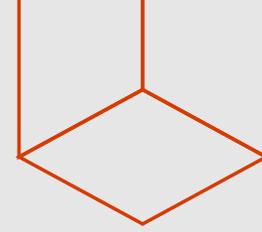
Using the Teams client (locally installed or via the web) is preferred, just in case there is any screen sharing needed, but feel free to call in if that's easier.

If no one shows up, I'll chalk this up as a failed experiment and go back to my breakfast. Otherwise, I'll look at doing this once a month.

For those with doubts about the time zone math, the zip file below contains an ICS file that you can import to your favorite e-mail client (e.g. Outlook):

[Link: August-1-OOFHour.zip](#)

Windows Autopilot Program Prerequisites

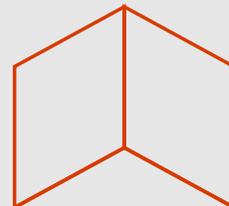
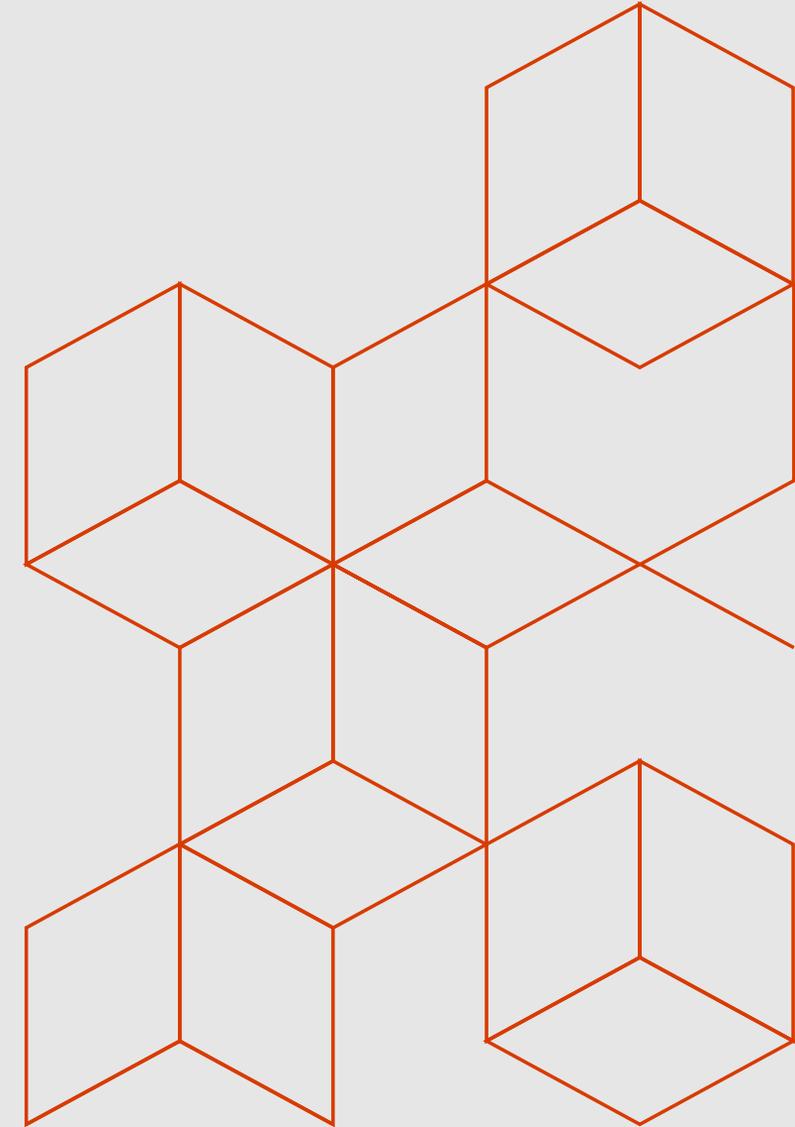


What is required to use AutoPilot?

- Azure Active Directory P1/P2 – Available in any one of the following SKUs
 - Microsoft 365 Business, E3 or E5
 - Enterprise Mobility+Security (EMS) E3 or E5
- Intune for Device Management – Available in any one of the following SKUs
 - Intune
 - Intune Device
 - Enterprise Mobility + Security E3
 - Enterprise Mobility + Security E5
 - Microsoft 365 E3
 - Microsoft 365 E5
 - Microsoft 365 F1
 - Microsoft 365 Business
 - Microsoft 365 Education A3
 - Microsoft 365 Education A5
- Windows 10 RS3 1709 or higher

Windows Autopilot

Azure AD Configuration



Automatic Enrollment

General



Automatic Enrollment

Configure Windows devices to enroll when they join or register with Azure Active Directory.

Choose to automatically enroll Windows 10 devices in your Azure Active Directory

- **Some** Option – manage by device or user groups
- **All** Option – manage all devices without exception

Configure

Microsoft Intune

Save Discard Delete

MDM user scope ⓘ

None Some **All**

MDM terms of use URL ⓘ

MDM discovery URL ⓘ

MDM compliance URL ⓘ

[Restore default MDM URLs](#)

MAM User scope ⓘ

None Some **All**

MAM Terms of use URL ⓘ

MAM Discovery URL ⓘ

MAM Compliance URL ⓘ

[Restore default MAM URLs](#)

Learn more at - <https://docs.microsoft.com/en-us/intune/quickstart-setup-auto-enrollment>

What is Hybrid Azure AD Join?

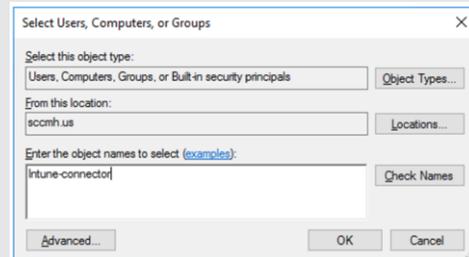


Intune Connector for Active Directory

Configure hybrid Azure AD joined devices

Devices joined to on premises Active Directory and registered in Azure Active Directory

- Install & Configure the Intune Connector for AD
- Configure AD to allow the Intune Connector to add computer objects (see link below)



- Use clients at Windows 10 **1809** or later

Learn more at - <https://docs.microsoft.com/en-us/intune/windows-autopilot-hybrid>

Add connector

Intune connector for Active Directory (Preview)

Configuring the Intune connector for Active Directory

1. Configure your account and server to connect to the on-premises Intune connector for Active Directory
[Learn more](#)
2. Download and install the on-premises Intune Connector for Active Directory
[Download the on-premises Intune Connector for Active Directory](#)

It should be as easy as



Registering your device with Autopilot

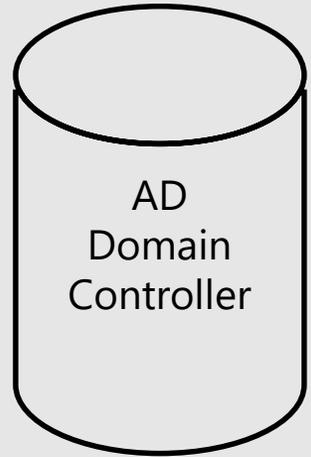


Assigning a Hybrid Azure AD Autopilot Profile using Intune

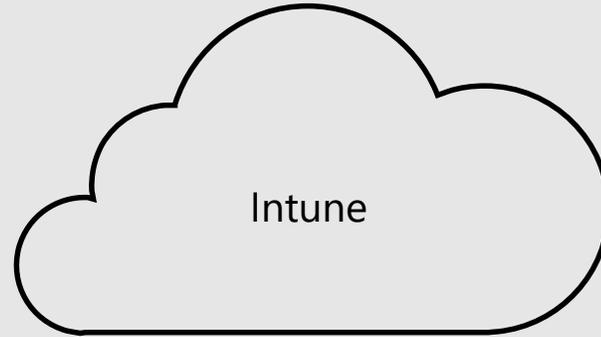


Booting your device and connecting to corpnet

Hybrid Azure AD Join through Windows Autopilot



Offline Domain Join Connector



Receive ODJ

MDM enrollment

Autopilot profile

Hardware ID

Complete join over corp net

Receive GPOs over corp net



Employee unboxes device, self-deploys

Demo

Hybrid Azure AD Join



- Create a resource
- All services
- FAVORITES
- Azure Active Directory
- Intune
- Dashboard
- All resources
- Resource groups
- App Services
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Security Center
- Cost Management + Billing
- Help + support
- Monitor
- Advisor

Windows Autopilot deployment profiles

Windows enrollment

+ Create profile

Windows Autopilot deployment profiles lets you customize the out-of-box experience for your devices. [Learn More.](#)

NAME	DESCRIPTION	JOIN TYPE	ASSIGNED
User Driven Profile		Azure AD joined	Yes
Kiosk		Azure AD joined	Yes

Create profile

Windows Autopilot deployment profiles

* Name
Hybrid Azure AD Join ✓

Description
Deployment profile for Hybrid Azure AD Join

* Deployment mode ⓘ
User-Driven

* Join to Azure AD as ⓘ
Hybrid Azure AD joined

Out-of-box experience (OOBE)
Defaults configured >

Create

Let's start with region. Is this right?

Turks and Caicos Islands

Tuvalu

U.S. Minor Outlying Islands

U.S. Virgin Islands

Uganda

Ukraine

United Arab Emirates

United Kingdom

United States

Yes



Recycle Bin



Microsoft
Edge



Type here to search

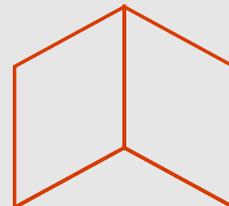
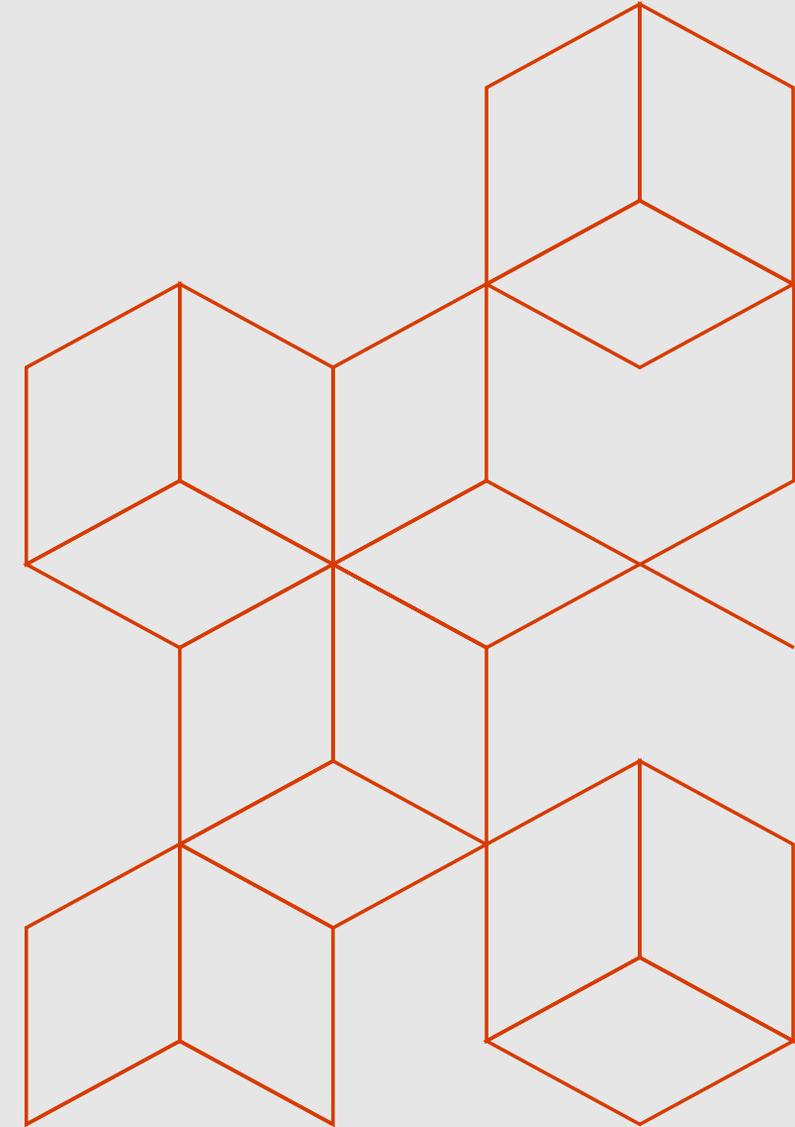


3:46 PM
9/20/2018



Windows Autopilot use case

Self-deploying mode



How would you use Autopilot to deploy...

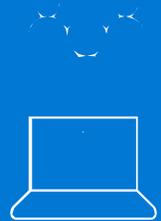
Digital signage



Multi app kiosk



Shared PC



Single app kiosk



VDI clients



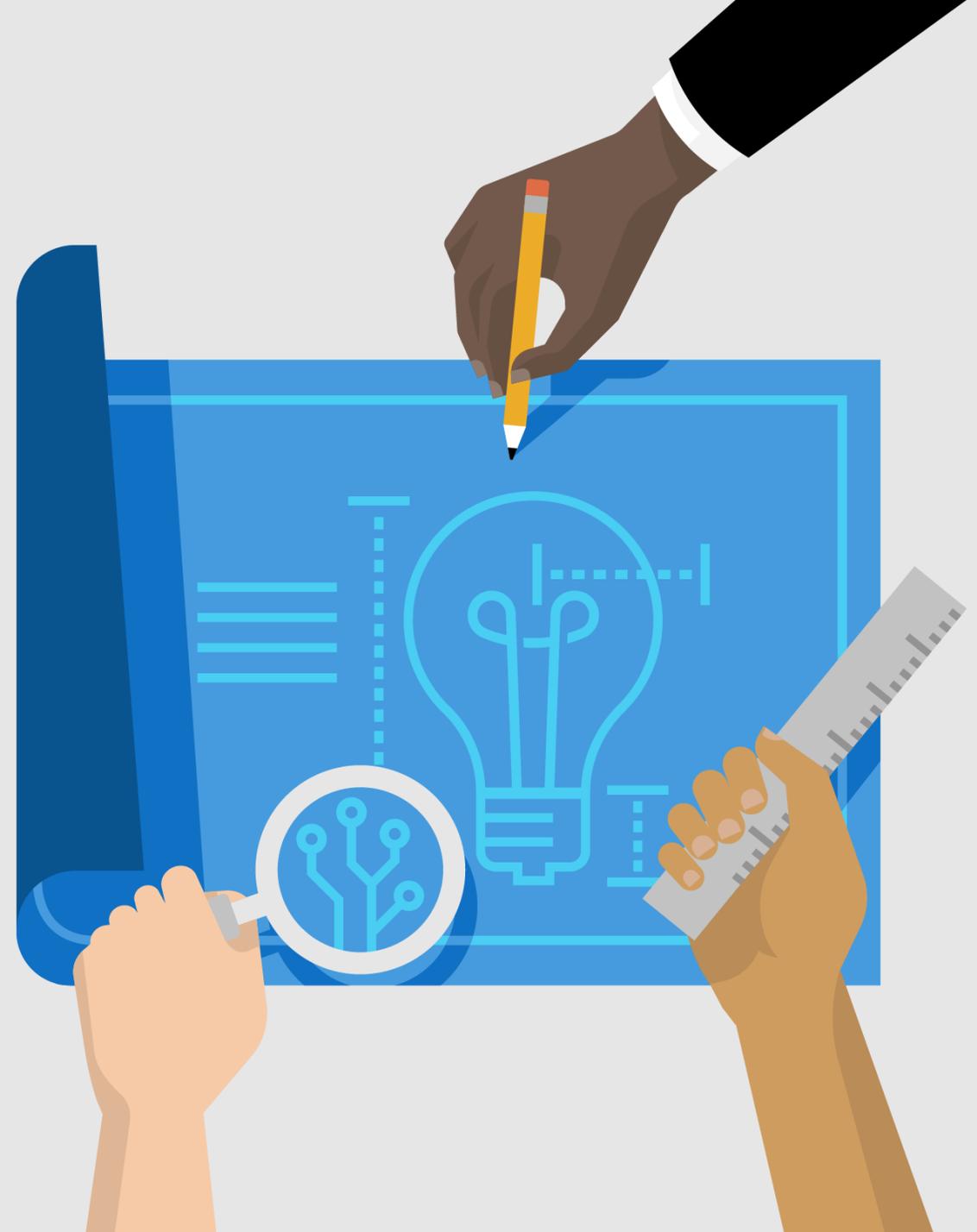
Design notes

Technicians usually set up these types of devices

No defined user to auth or set up the device

May not have peripherals (keyboards, mice, etc.)

Typically involve “walk up and use” scenarios



It should be as easy as



Registering your device with Autopilot



Assigning a Self-Deploying Autopilot Profile using Intune



Connecting to a network and booting your device

Windows Autopilot Self-Deploying Mode

Pre-requisites

Windows 10 version 1809 or higher running on a device with TPM 2.0

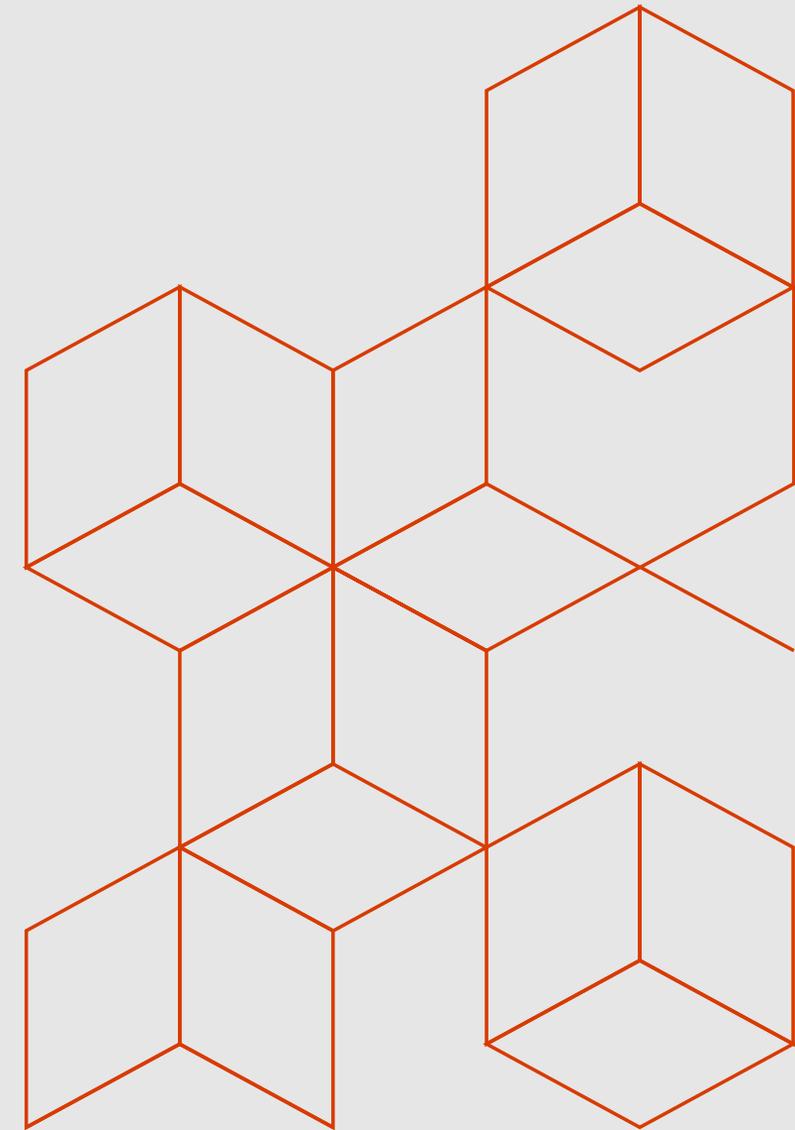
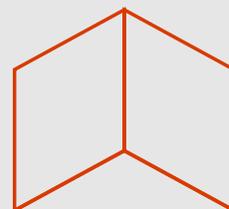
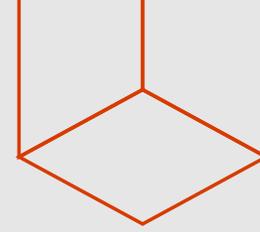
One of the following, to provide needed Azure Active Directory (automatic MDM enrollment and company branding features) and MDM functionality:

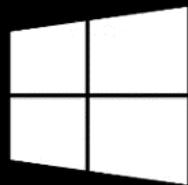
- Microsoft 365 Business subscriptions
- Microsoft 365 F1 subscriptions
- Microsoft 365 Enterprise E3 or E5 subscriptions, which include all Windows 10, Office 365, and EM+S features (Azure AD and Intune)
- Enterprise Mobility + Security E3 or E5 subscriptions, which include all needed Azure AD and Intune features
- Azure Active Directory Premium P1 or P2 and Intune subscriptions (or an alternative MDM service)

See <https://docs.microsoft.com/en-us/windows/deployment/windows-autopilot/windows-autopilot-requirements-licensing> for more information

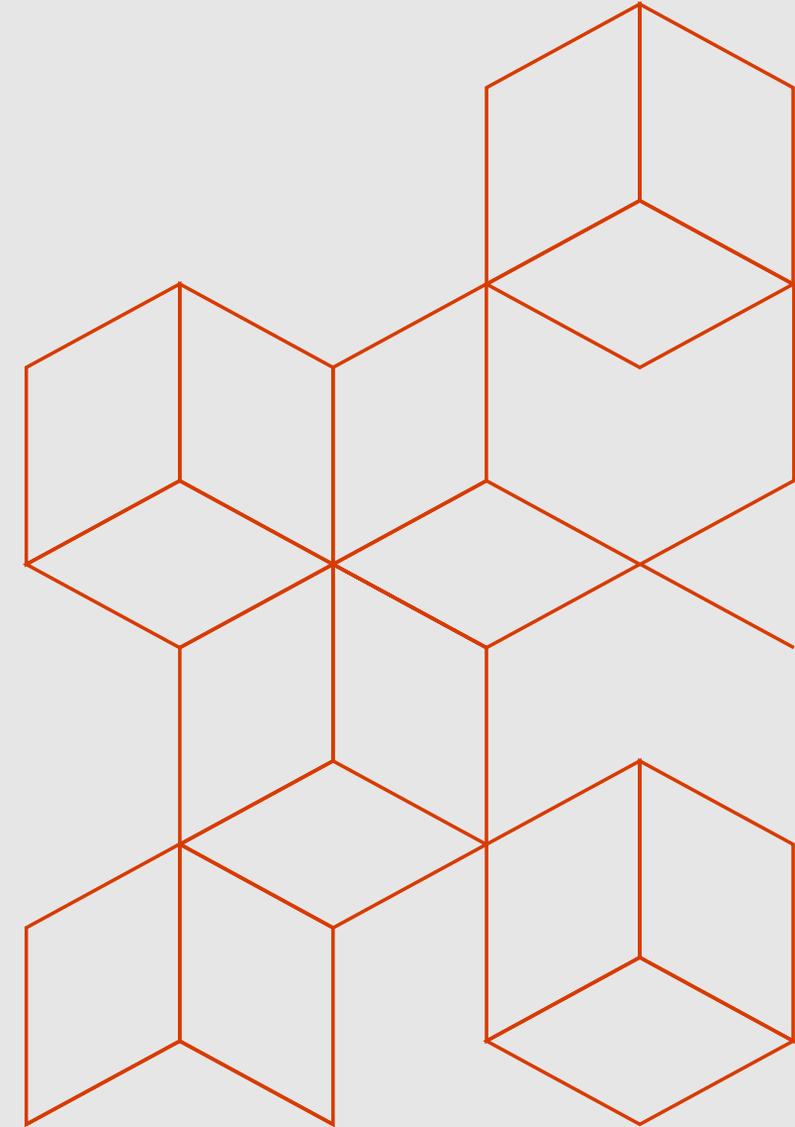
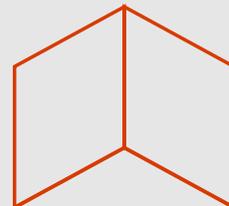
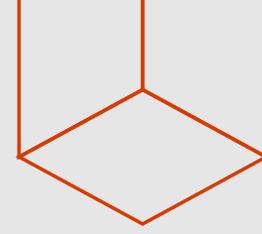
Demo

Self-deploying mode
Kiosk





Windows Autopilot use case existing devices



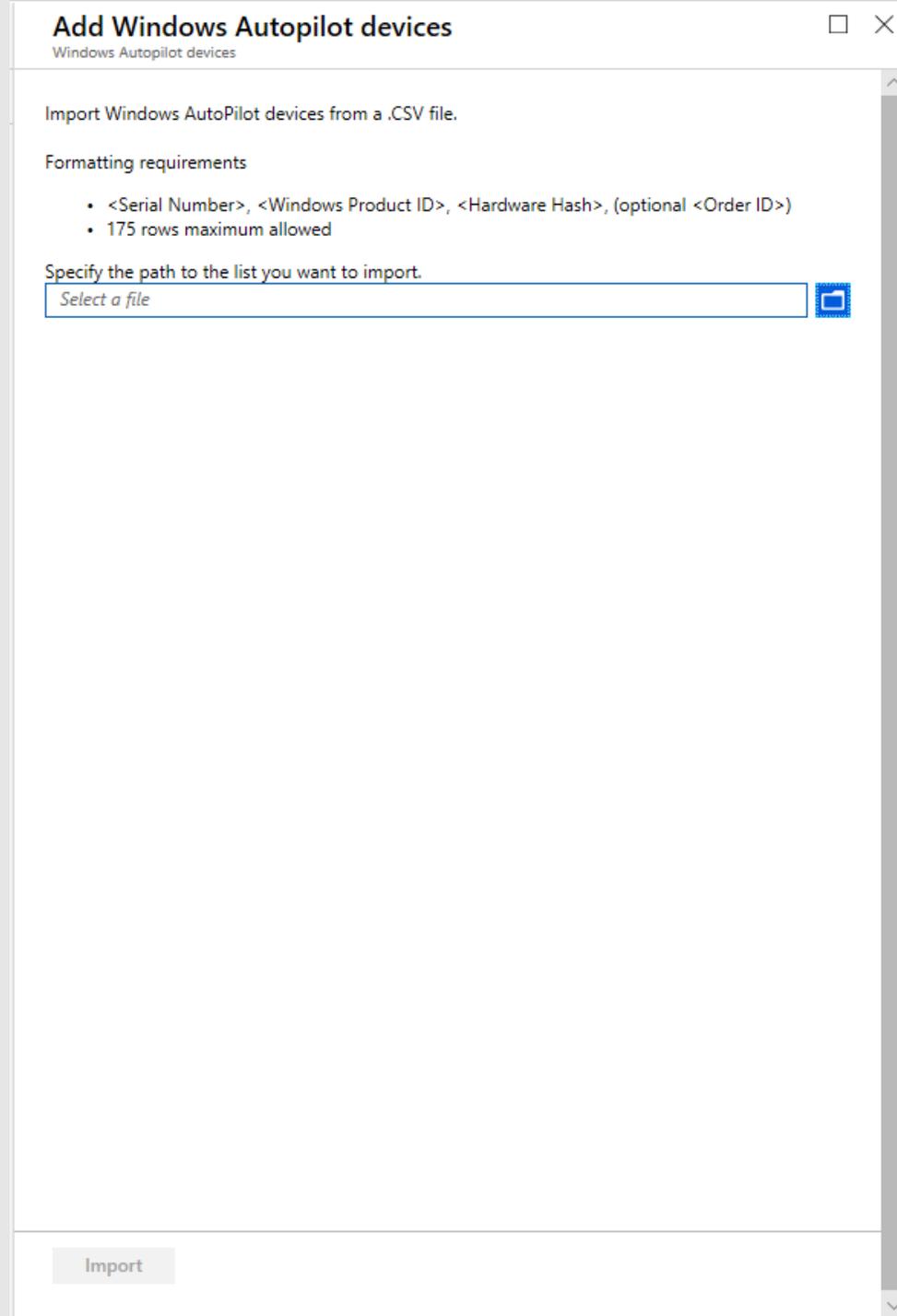
Registering existing Windows 10 devices

Manually for existing devices

To register existing devices:

- Use the PowerShell script available at <https://www.powershellgallery.com/packages/Get-WindowsAutoPilotInfo>
- Run for each device (requires Windows 10 1703 or higher)
- Upload resulting CSV file via Intune portal
- See <https://docs.microsoft.com/en-us/windows/deployment/windows-autopilot/add-devices#collecting-the-hardware-id-from-existing-devices-using-powershell> for more information

Great for testing and validation with existing devices and virtual machines



Registering existing devices

Automatically for all Intune-managed Windows 10 devices

If you have existing Windows 10 devices:

- Enable new Autopilot profile setting for all targeted devices
- Ensure the Autopilot profile is assigned to a group containing the existing Windows 10 devices

If your existing Windows 10 devices are not yet Intune-managed:

- Enable co-management with ConfigMgr via the “Automatic enrollment into Intune” setting. (See <https://docs.microsoft.com/en-us/sccm/core/clients/manage/co-management-overview#enable-co-management>)
- Ensure all new Intune-enrolled Windows 10 devices are part of a group with an assigned Autopilot profile

Create profile
Windows Autopilot deployment profiles

* Name
Enter the name

Description
Optional

By default, this profile can only be applied to Autopilot devices synced from the Autopilot service. [Learn More.](#)
Convert all targeted devices to Autopilot ⓘ

* Deployment mode ⓘ
User-Driven

* Join to Azure AD as ⓘ
Select directory service devices will join

Out-of-box experience (OOBE)
Defaults configured >

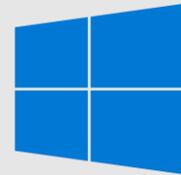


Microsoft Intune

Microsoft System Center



Windows[®] 7



Windows 10

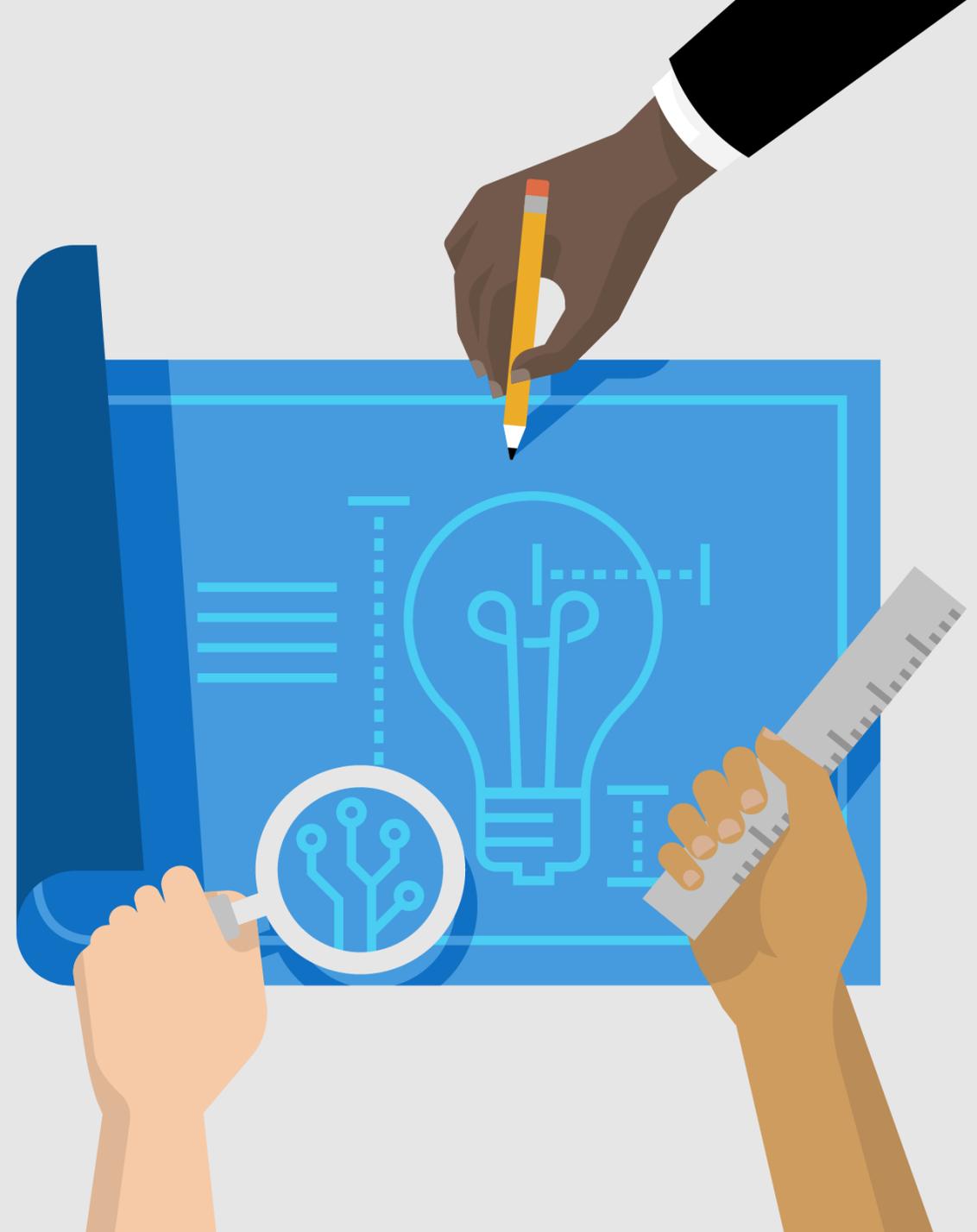
Windows 7 Upgrade

Windows 7 end of support is fast approaching
January 14, 2020

Usually would like to migrate user data from
Win7 to Win10

Autopilot currently only supported on version
1703 and later

Unable to harvest hardware hashes in Win7



With ConfigMgr (SCCM)



(optional) Deploy group policy to redirect Known Folders to OneDrive



Generate Autopilot configuration file



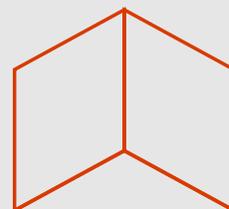
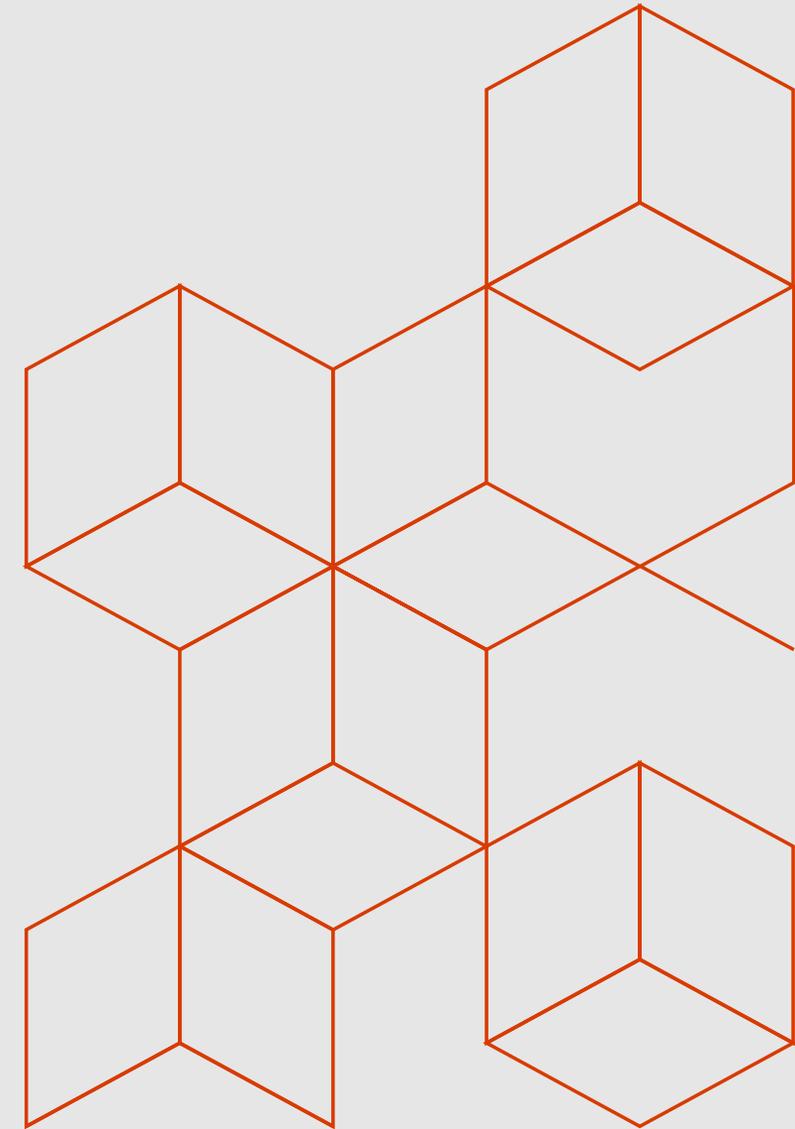
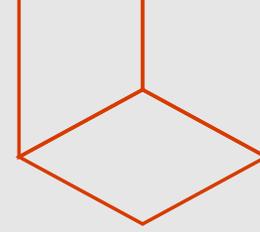
Deploy Task Sequence to upgrade to Windows 10



Windows 10 machine goes through Autopilot on first boot

Demo

Upgrading from Win7 to Win10 using Autopilot





Recycle Bin



2:39 AM
9/20/2018

Managing existing Windows 7 or 8.1 devices

Install & Config Intune client software

<https://docs.microsoft.com/en-us/intune/install-the-windows-pc-client-with-microsoft-intune>

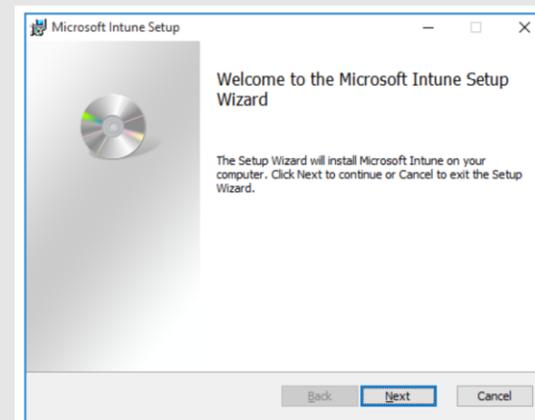
Capabilities

In most scenarios, you will enroll your devices with Microsoft Intune, which provides a greater set of capabilities. However, you can also manage PCs by using the Intune software client, which provides the following features:

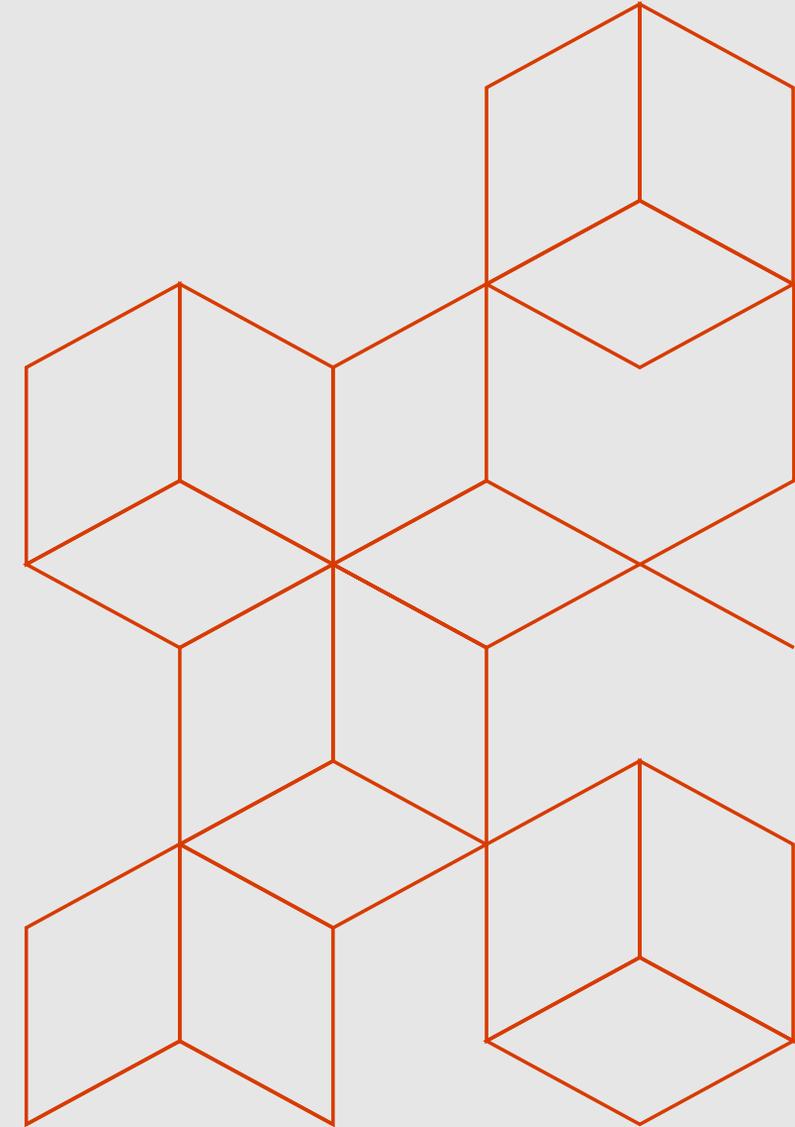
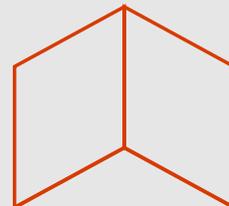
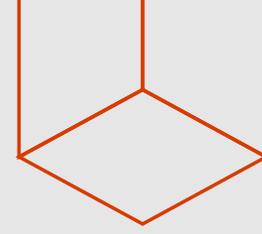
- Software update management - You can keep PCs up-to-date and decide when updates are applied.
- Windows Firewall policy - This helps to ensure that no PC that's used in your company has an inactive or improperly-configured Windows Firewall.
- Anti-malware protection - Intune includes Endpoint Protection, which helps protect your PCs from malware.
- Remote assistance - Intune lets users contact IT support staff, who can then provide assistance by using a remote desktop feature that is included with Intune (requires TeamViewer software).
- Software license management - Track how many software licenses are available, and how many available licenses are being used.
- App deployment - Deploy software to PCs that you manage. Some app management features are not available when you manage PCs with the software client.

Deployment

- Deploy the client software (manually or via GPO)



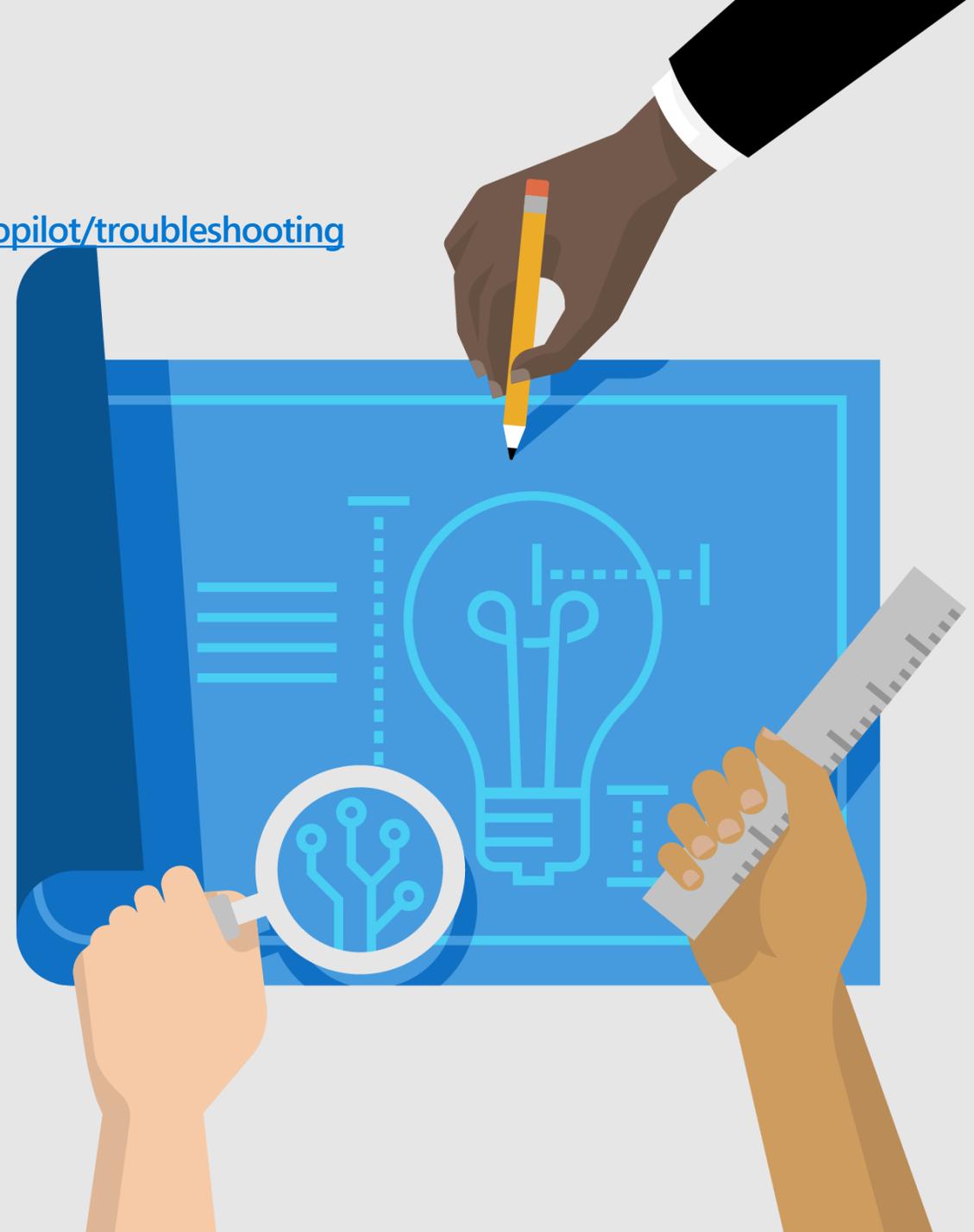
Windows Autopilot troubleshooting



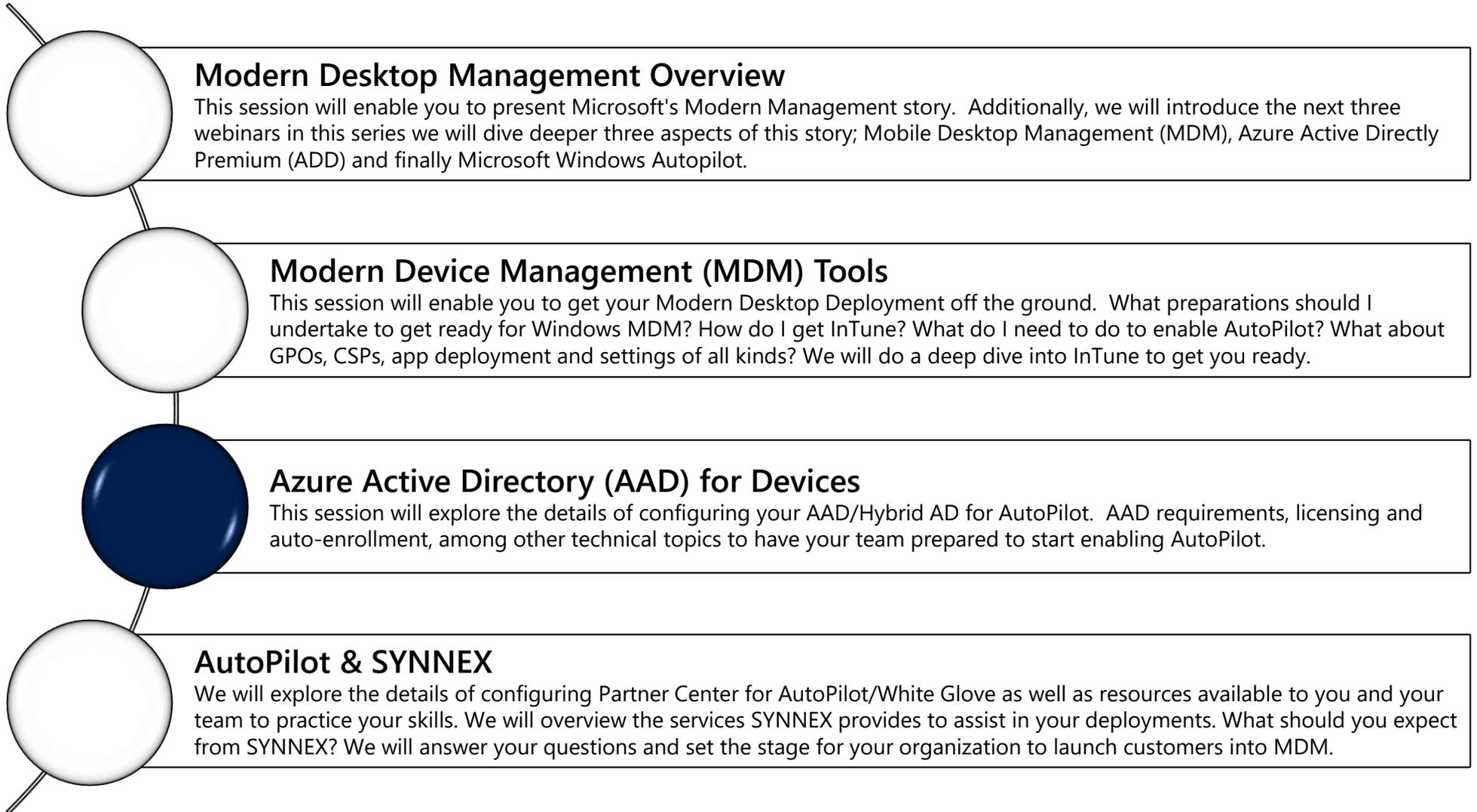
Troubleshooting Process

<https://docs.microsoft.com/en-us/windows/deployment/windows-autopilot/troubleshooting>

- Configuration. Has Azure Active Directory and Microsoft Intune (or an equivalent MDM service) been configured as specified in [Windows Autopilot configuration requirements?](#)
- Network connectivity. Can the device access the services described in [Windows Autopilot networking requirements?](#)
- Autopilot OOB E behavior. Were only the expected out-of-box experience screens displayed? Was the Azure AD credentials page customized with organization-specific details as expected?
- Azure AD join issues. Was the device able to join Azure Active Directory?
- MDM enrollment issues. Was the device able to enroll in Microsoft Intune (or an equivalent MDM service)?



Modern Desktop Management Series Sessions



Q&A





Appendix



Plan Comparison

		Business Plans		Enterprise Plans			
		Office 365 Business Premium	Microsoft 365 Business	Office 365 Enterprise E3	Microsoft 365 Enterprise E3	Office 365 Enterprise E5	Microsoft 365 Enterprise E5
STANDARD SERVICES	Estimated retail price per user per month \$USD (with annual commitment)	\$12.50	\$20	\$20	\$34	\$35	\$57
	Maximum number of users	300	300	unlimited	unlimited	unlimited	unlimited
	Install Office on up to 5 PCs/Macs + 5 tablets + 5 smartphones per user	Business	Business	ProPlus	ProPlus	ProPlus	ProPlus
	Exchange, OneDrive, SharePoint, Skype, Microsoft Teams	●	●	●	●	●	●
	Business Apps – Outlook Customer Manager, Bookings, MileIQ ¹ Business center ² , Listings ² , Connections ² , Invoicing ²	●	●				
ADVANCED SERVICES	Legal compliance & archiving needs for email – archiving, eDiscovery, mailbox hold			●	●	●	●
	Information protection – message encryption, rights management, data loss prevention			●	●	●	●
	Advanced Threat Protection, Advanced Security Management, Threat Intelligence, Advanced Compliance		Add-on	Add-on	Add-on	●	●
	End User and Organizational Analytics (MyAnalytics), PowerBI Pro		Add-on	Add-on	Add-on	●	●
	PSTN Conferencing		Add-on	Add-on	Add-on	●	●
	Cloud PBX, PSTN Calling ⁴			Add-on	Add-on	●	●
	Windows: Windows 10 Business (Windows Defender, Store, Cortana Mgmt Controls, Auto-Install Office apps, Upgrade rights to Windows 10 Pro for 7/8.1 Pro licenses)		●				
	Windows: Windows AutoPilot		●		●		●
	EMS: Microsoft Intune, Azure Active Directory Premium P1		● ³		●		
	Windows: Microsoft Desktop Optimization Package, VDA				●		●
	Windows: Enterprise Data Protection, Windows Hello, Credential Guard, Device Guard, App Locker				●		●
	EMS: Microsoft Advanced Threat Analytics, Azure Information Protection P1				●		●
	Windows: Windows Defender Advanced Threat Protection						●
	EMS: Azure Active Directory Premium P2, Microsoft Cloud App Security, Azure Information Protection P2						●

[1] Available in US, UK, Canada

[2] Currently in public preview in US, UK, Canada

[3] Only selected features: App protection for Office mobile apps, MDM for Windows 10 PCs, Selective wipe of company data, AAD Auto-Enroll

[4] Cloud PBX Required

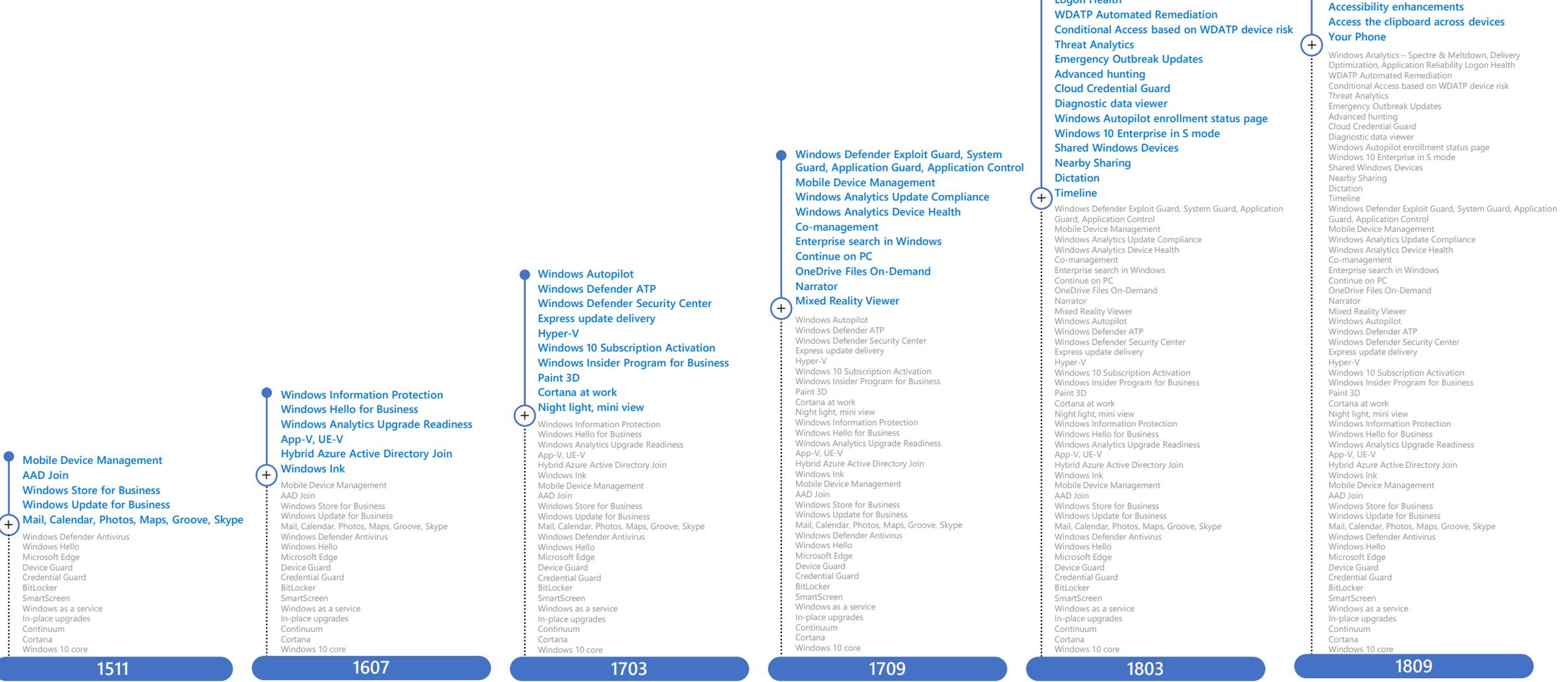
Office 365 Commercial Plan Comparison

		Business ¹			Enterprise ²				
		Business	Business Essentials	Business Premium	ProPlus	F1	E1	E3	E5
Standard Services	Estimated retail price per user per month \$USD (with annual commitment)	\$8.30	\$5	\$12.5	\$12	\$4	\$8	\$20	\$35
	Install Office on up to 5 PCs/Macs + 5 tablets + 5 smartphones per user	Business ³		Business ³	ProPlus ⁴			ProPlus ⁴	ProPlus ⁴
	Access to Office apps and documents from all major smartphones and iPad	●		●	●			●	●
	OneDrive for Business – personal online document storage	1 TB	1 TB	1 TB	1 TB	2 GB ⁹	1 TB	1-5+ TB ⁸	1-5+ TB ⁸
	Office Mobile Apps – Create/edit rights for commercial use of Office Mobile apps ¹⁴	●	● ¹⁸	●	●	● ¹⁸	● ¹⁸	●	●
	Office Online – Create/edit rights for online versions of core Office apps	●	●	●	●	●	●	●	●
	Sway for Office 365 ⁵	●	●	●	●	●	●	●	●
	To-Do – Personal task management app		●	●		●	●	●	●
	PowerApps and Flow		●	●		● ¹¹	●	●	●
	Team collaboration & internal portals (SharePoint), Internal social networking (Yammer)		●	●		● ¹⁵	●	●	●
	Email - 50 GB email, contacts, shared calendars (Exchange)		●	●		2 GB ¹³	●	● ¹⁶	● ¹⁶
	Skype for Business, Microsoft Teams – Conferencing, meetings, IM/presence, chat-centered workspace		●	●		● ¹⁰	●	●	●
	Shift scheduling, content sharing, and workgroup messaging			●		●	●	●	●
	Microsoft Bookings			●				●	●
	Outlook Customer Manager, Invoicing, Business center, Listings, Connections & MileIQ			● ¹⁷					
Microsoft Stream					● ¹²	●	●	●	
Advanced Services	On-premises Active Directory synchronization for single sign on	●	●	●	●	●	●	●	●
	Mobile Device Management (MDM) for Office 365 ⁶	●	●	●	●	●	●	●	●
	Access to equivalent on-premise servers (Exchange, SharePoint, Skype for Business)						●	●	●
	Legal compliance & archiving needs for email – archiving, eDiscovery, mailbox hold							●	●
	Information protection – message encryption, rights management, data loss prevention							●	●
	Enterprise Voice w/Skype for Business (on-prem only) ⁷								●
	Office 365 Cloud App Security, Advanced Compliance, Advanced Threat Protection, Threat Intelligence								●
	Threat Intelligence								●
	Data analytics and visualization (Power BI Pro), personal productivity analytics (MyAnalytics)								●
Phone System, Audio Conferencing								●	

See speaker notes section for footnotes

Windows 10 gets better with

With enhanced security, more tools for IT and end user productivity features



Office 365 ProPlus gets better with each release

Showing only new, customer-facing ProPlus (win32) client features

- Faster PivotTables
- Upgraded accessibility
- Have an idea?
- Improvements to Get & Transform
- Publish to Power BI
- Shape recognition
- Text Highlighter
- Zoom
- Do more with Ink
- Import latest AutoCAD file formats
- Three templates for UML
- Your First Draft Just Got Easier

Fall 2016

- Enhanced data import functionality
- Insert recent links
- Keep control over your attachments
- Know before you share
- Large Number (bigint) support
- Narrate a recording
- Personalize the default PivotTable layout
- Quick access to superscript and subscript
- Quickly access the groups you use most
- Use your pen to select and change objects
- A Quick Start to Your Research
- Make diagrams from Excel data
- Editor: Enhanced writing assistance
- PowerPoint Designer
- View and restore changes in shared Word, Excel, PPT
- Faster PivotTables
- Upgraded accessibility
- Have an idea?
- Improvements to Get & Transform
- Publish to Power BI
- Shape recognition
- Text Highlighter
- Zoom
- Do more with Ink
- Import latest AutoCAD file formats
- Three templates for UML
- Your First Draft Just Got Easier

Spring 2017

- Use SVG images in Excel and PowerPoint
- A new digital writing assistant
- Better recordings
- Cloud attachments just got better
- Collaborate on attachments in real time
- Create Precise Ink Shapes
- Easily select and manipulate objects
- Edit with natural pen gestures
- Improve Reading with Learning Tools
- Ink replay
- Insert 3D Models to See All the Angles
- Insert and Edit Icons
- Maps
- Mini-previews for attached photos
- Shared with Me
- Show #N/A data as a gap in charts
- Stay on top of your travel and deliveries
- Syllable breaking
- Tap finds the content you need, for easy reuse
- While you were away
- Word Saves For You
- Collaborative, Real-Time Editing
- Designer turns bullets into compelling visuals
- Designer transforms more types of slides
- Enhanced data import functionality
- Insert recent links
- Keep control over your attachments
- Know before you share
- Large Number (bigint) support
- Narrate a recording
- Personalize the default PivotTable layout
- Quick access to superscript and subscript
- Quickly access the groups you use most
- Use your pen to select and change objects
- A Quick Start to Your Research
- Make diagrams from Excel data
- Editor: Enhanced writing assistance
- PowerPoint Designer
- View and restore changes in shared Word, Excel, PPT
- Faster PivotTables
- Upgraded accessibility
- Have an idea?
- Improvements to Get & Transform
- Publish to Power BI
- Shape recognition
- Text Highlighter
- Zoom
- Do more with Ink
- Import latest AutoCAD file formats
- Three templates for UML
- Your First Draft Just Got Easier

Fall 2017

- Use Read Aloud to listen to your email
- Translator
- 3D animations
- Ask your audience with a quiz or survey
- Chat with co-authors while you edit
- Data Visualizer audit template
- Find and fix relevant proofing issues.
- Insights in Excel
- Know who you'll be meeting with
- Sort your email with ease
- Sprint management just got easier
- Type hands-free
- A smarter To: line
- Convert SVG icons to shapes
- Keep your Visio diagram and Excel data in sync
- Remodel your forms and reports with new charts
- Use SVG images in Excel and PowerPoint
- A new digital writing assistant
- Better recordings
- Cloud attachments just got better
- Collaborate on attachments in real time
- Create Precise Ink Shapes
- Easily select and manipulate objects
- Edit with natural pen gestures
- Improve Reading with Learning Tools
- Ink replay
- Insert 3D Models to See All the Angles
- Insert and Edit Icons
- Maps
- Mini-previews for attached photos
- Shared with Me
- Show #N/A data as a gap in charts
- Stay on top of your travel and deliveries
- Syllable breaking
- Tap finds the content you need, for easy reuse
- While you were away
- Word Saves For You
- Collaborative, Real-Time Editing
- Designer turns bullets into compelling visuals
- Designer transforms more types of slides
- Enhanced data import functionality
- Insert recent links
- Keep control over your attachments
- Know before you share
- Large Number (bigint) support
- Narrate a recording
- Personalize the default PivotTable layout
- Quick access to superscript and subscript
- Quickly access the groups you use most
- Use your pen to select and change objects
- A Quick Start to Your Research
- Make diagrams from Excel data
- Editor: Enhanced writing assistance
- PowerPoint Designer
- View and restore changes in shared Word, Excel, PPT
- Faster PivotTables
- Upgraded accessibility
- Have an idea?
- Improvements to Get & Transform
- Publish to Power BI
- Shape recognition
- Text Highlighter
- Zoom
- Do more with Ink
- Import latest AutoCAD file formats
- Three templates for UML
- Your First Draft Just Got Easier

Spring 2018

- Easy editing in the formula bar
- Learn with the new Office Training Center
- Export to 4K video
- Export process diagrams to Word
- Info about people and groups—at a glance
- New Ink Effects
- Quickly access your sites and groups
- Refresh, relink, or remove linked tables
- Run a slide show with your digital pen
- Stay organized with Recent save locations
- Stock quotes at your fingertips
- Task Board view
- Use Read Aloud to listen to your email
- Translator
- 3D animations
- Ask your audience with a quiz or survey
- Chat with co-authors while you edit
- Data Visualizer audit template
- Find and fix relevant proofing issues.
- Insights in Excel
- Know who you'll be meeting with
- Sort your email with ease
- Sprint management just got easier
- Type hands-free
- A smarter To: line
- Convert SVG icons to shapes
- Keep your Visio diagram and Excel data in sync
- Remodel your forms and reports with new charts
- Use SVG images in Excel and PowerPoint
- A new digital writing assistant
- Better recordings
- Cloud attachments just got better
- Collaborate on attachments in real time
- Create Precise Ink Shapes
- Easily select and manipulate objects
- Edit with natural pen gestures
- Improve Reading with Learning Tools
- Ink replay
- Insert 3D Models to See All the Angles
- Insert and Edit Icons
- Maps
- Mini-previews for attached photos
- Shared with Me
- Show #N/A data as a gap in charts
- Stay on top of your travel and deliveries
- Syllable breaking
- Tap finds the content you need, for easy reuse
- While you were away
- Word Saves For You
- Collaborative, Real-Time Editing
- Designer turns bullets into compelling visuals
- Designer transforms more types of slides
- Enhanced data import functionality
- Insert recent links
- Keep control over your attachments
- Know before you share
- Large Number (bigint) support
- Narrate a recording
- Personalize the default PivotTable layout
- Quick access to superscript and subscript
- Quickly access the groups you use most
- Use your pen to select and change objects
- A Quick Start to Your Research
- Make diagrams from Excel data
- Editor: Enhanced writing assistance
- PowerPoint Designer
- View and restore changes in shared Word, Excel, PPT
- Faster PivotTables
- Upgraded accessibility
- Have an idea?
- Improvements to Get & Transform
- Publish to Power BI
- Shape recognition
- Text Highlighter
- Zoom
- Do more with Ink
- Import latest AutoCAD file formats
- Three templates for UML
- Your First Draft Just Got Easier

Fall 2018