Modern Commercial Deployment with Autopilot

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Introduction and Agenda

Agenda:
Overview
Benefits
Process
Configuration
Requirements
Demo
Roadmap (new features)
Call to action
Overview
What is Autopilot?

A cloud-based deployment technology available in Windows 10.

It allows you to deploy and configure devices over the internet with no interaction from the IT Admin.

It builds on existing modern management technologies like Azure Active Directory (AAD) and Mobile Device Management (MDM) to manage and configure devices by automatically enrolling the devices in these solutions at their first bootup, right out of the box.
What is Autopilot?

- IT Admin makes custom image
- Slow imaging process
- USB sticks
- Assist employees
- Updates?
- Reset/reimage devices
What is Autopilot?
Benefits
Benefits

- Win seats
- Register devices as a service
- Custom configurations as a service
- Customer SAT
Process
Process

1. Acquire device identity
2. Register devices to the organization
3. Customize setup experience
4. Hand out shrink wrapped devices
Process

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OEM → Device IDs → CSP
Process

Acquire device identity

Register devices to the organization

Customize setup experience

Hand out shrink wrapped devices

Windows AutoPilot Deployment Service

OEM

Device IDs

CSP

Upload Device IDs (via Partner Center)

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Process

- **Acquire device identity**
- **Register devices to the organization**
- **Customize setup experience**
- **Hand out shrink wrapped devices**

**Windows AutoPilot Deployment Service**

- **Device IDs**: OEM → CSP → IT Admin
- **Upload Device IDs (via Partner Center)**
- **Configure AutoPilot (via Microsoft Store for Business or Intune)**

For WinHEC 2018

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Process

1. **Acquire device identity**
   - OEM

2. **Register devices to the organization**
   - CSP
   - IT Admin

3. **Customize setup experience**
   - Configure AutoPilot (via Microsoft Store for Business or Intune)
   - Upload Device IDs (via Partner Center)

4. **Hand out shrink wrapped devices**
   - AAD & MDM
   - Windows AutoPilot Deployment Service
   - Employee

- **Ship**
  - Off-the-shelf and shrink-wrapped devices

- **Deliver**
Configuration
Configuration

- Skip steps to setup a local admin account
- Shorten OOBE (e.g., suppress EULA page)
- Present organization branding during OOBE user login
- Automatic enrollment in MDM
- Device configuration, policies, and apps defined by MDM are applied at first boot
Configuration

Microsoft Store for Business

Partner Center

Microsoft Intune

Microsoft 365 Business
Requirements
Requirements

- Commercial Windows 10 1703+ (Pro, Pro EDU, Pro WKS, S mode, Enterprise EDU)
- Internet connectivity
- AAD* or Office 365 ProPlus (M365 Business)
- CSP
- MDM
- Partners must have a reseller relationship with the customer
- TPM for Self-deploying
- Microsoft Store for Business account or a CSP partner with access to Partner Center

*Premium required for MDM auto-enrollment
Demo

Autopilot
Would you like to continue in English?
Let’s start with region. Is this right?

- United Arab Emirates
- United Kingdom
- United States
- Uruguay
- Uzbekistan
- Vanuatu
- Vatican City
- Venezuela

Yes
Is this the right keyboard layout?

- United States-Dvorak for left hand DVORAK L
- United States-Dvorak for right hand DVORAK R
- United States-International QWERTY
- Albanian QWERTZ
- Azerbaijani PUSUDB
- Azeri Latin QUERTY
- Belgian (comma) AZERTY
Want to add a second keyboard layout?
Now let’s get you connected to a network. That way you get updates, apps and cat videos as soon as possible. How about the first one on the list? Want to use that one?
Now let’s get you connected to a network. That way you get updates, apps and cat videos as soon as possible. How about the first one on the list? Want to use that one?
Alright, you’re connected. Just a moment...
Now we'll check for any updates...
Welcome to Contoso Ltd

Enter your Contoso Ltd email.

someone@example.com

Change account

Next
Welcome to Contoso Ltd

Enter your Contoso Ltd email.

anna@contosoltd.com

Change account

Next
Enter your password

Enter password for anna@contosoltd.com

Need help?
Contoso MN
Setting up your work account...
We’re getting everything ready for you.

Don’t turn off your PC
Roadmap – Windows 10 October 2018 Update

**Personalization.** Pre-assigned user personalization ("Hi Rob").

**Self-deploying.** Completely automated, no-touch device setup.

**Reset.** IT Admin can remote reset devices.

**Hybrid Azure AD join.** AP for offline devices that are not domain joined.

**Rip & Reuse.** AP for Windows 7+ devices.
Personalization
Self-deploying
Setting up your device for work

This could take a while and your device may need to reboot.

- Device preparation
  - Complete
- Device setup
  - Installing
- Account setup
  - Waiting for previous step to finish
Reset
Hybrid AAD join
Hybrid AAD join

IT Admin

Employee unboxes device, self-deploys

Offline Domain Join Connector

Complete Join over corp net

Receive GPOs over corp net

Receive ODJ

MDM enrollment

Autopilot profile

Hardware ID

Intune

Windows Autopilot Deployment Service

DC

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Shared under NDA
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Hybrid AAD join
Rip & Reuse

1. Create task sequence in Configuration Manager to deploy generic Windows 10 image with needed drivers (wipe-and-load).
2. Migrate data to OneDrive for Business (in advance).
3. Deploy task sequence to existing Windows 7+ devices, installing Windows 10 and proceeding through Windows Autopilot user-driven process to join device to Azure AD.
In PowerShell:

1. Use PS script we published to generate json configuration file that contains the device profile.
   ```powershell
   import-module windowsautopilotintune.
   ```
2. Connect to Intune.
   ```powershell
   connect-autopilotintune
   ```
3. Query Intune for list of Autopilot profiles.
   ```powershell
   Get-AutoPilotProfile
   ```
4. Convert the profile you want into json.
   ```powershell
   ConvertTo-AutoPilotConfigurationJSON
   ```
5. Copy the json output from the previous command into a text file:
6. Drop the text file into the right Windows folder as part of your Task Sequence using a PS script.
Rip & Reuse
Roadmap – Direct sales

OEM

End-user
Roadmap – Indirect sales

- OEM
- Distributor
- Reseller
- IT Admin
- End-user
Why Windows Autopilot?
Call to action

Try Autopilot
Go through the Autopilot self-demo walkthrough

Consider Autopilot
For all your commercial customers

Visit the webpage