MEM with EDU Scenarios (Enterprise WiFI and .Intunewin)

Introduction

Education institutions can do most of their app targeting and policy management for Windows and iOS in the Intune for Education dashboard.

There are some tasks that can only be done in Microsoft Endpoint Manager (MEM). The most common EDU scenarios in MEM are Enterprise Wi-Fi configuration and deploying legacy (.exe) applications. You will experience these common scenarios in this interactive guide.

Create and Deploy Enterprise Wi-Fi Profile

Wi-Fi is a wireless network that's used by many mobile devices to get network access. Microsoft Intune includes built-in Wi-Fi settings that can be deployed to users and devices in your organization. This group of settings is called a "profile" and can be assigned to different users and groups. Once assigned, your users get access to your organization's Wi-Fi network without configuring it themselves.

Note: We will use the full MEM Console to create and assign the Windows and iOS Wi-Fi profiles to devices.

Windows 10 Enterprise Wi-Fi Profile

- Click in the address bar and type: **https://endpoint.microsoft.com/** and then hit **Enter**
- Sign in with the following credentials:
    - Type Username as **admin@myschool.com** and hit **Enter**
    - Type Password as **password** and hit **Enter**
    - Click on Yes to stay signed in
- In the left panel click on **Devices**
- Click on **Configuration profiles**
- Click on **Create profile**
- In the flyout, under Platform, choose **Windows 10 and later** from the drop-down list.
- Under Profile Type select **Templates**
- Scroll down and select **Wi-Fi** from the templates list
- Select **Create**

Basics

Enter the following information:

- Click in the Name field, type **Windows 10 Enterprise Wi-Fi** and hit **Enter**
- Click in the Description field, type **Windows 10 Enterprise Wi-Fi profile for All Devices** and hit **Enter**
- Click **Next** to proceed

Configuration Settings

We will configure the **minimum required** settings to enable an Enterprise Wi-Fi profile.

- Select **Enterprise** from the **Wi-Fi type** drop-down list
- Click in the Wi-Fi Name (SSID) field, type **ContosoWiFi** and hit **Enter**
- Click in the Connection Name field, type **ContosoWiFi** and hit **Enter** (Enter a user-friendly name for this Wi-Fi connection.)
- **Scroll down** and then under **EAP Type** select the Extensible Authentication Protocol (EAP) type to authenticate secured wireless connections. For this guide, select **Protected EAP (PEAP)** from the drop-down list.

For additional information on each type: https://docs.microsoft.com/en-us/mem/intune/configuration/wi-fi-settings-windows#enterprise-profile

- **Scroll down,** and select **Username and Password** from the **Authentication Method** drop-down list
- Click **Next** to proceed

Assignments

Assignment is where we will specify to which Devices the Wi-Fi profile will be deployed – using Azure AD Groups.

For this example:

- Under included groups, click on **+Add All Devices**
- Click **Next** to proceed

Applicability Rules

We will create an applicability rule to only include Windows devices that are running Windows 10 Enterprise.

- In the drop-down list for **Rule**, select **Assign profile if**
- In the drop-down list for **Property**, select **OS Edition**
- In the drop-down list for **Value**, select **Windows 10 Enterprise**
- Click **Next** to proceed

Review and Create

Review the Profile information

- **Scroll down** and then click **Create**

iOS Enterprise Wi-Fi Profile

- On the left side of the screen, click **Devices**
- Click on **Configuration profiles**
- Click on **Create profile**
- On the flyout, choose **iOS/iPadOS** as **Platform** from the drop-down list
- Under Profile Type select **Wi-Fi** from the drop-down list
- Click **Create**

Basics

Enter the following information:

- Click in the Name field, type **iOS Enterprise Wi-Fi** and hit **Enter**
- Click in the Description field, type **iOS Enterprise Wi-Fi profile** and hit **Enter**
- Click **Next** to proceed

Configuration Settings

We will configure the minimum required settings to enable an Enterprise Wi-Fi profile.

- Under **Wi-Fi type,** select **Enterprise** from the drop-down list
- Click in the Network Name field, type **ContosoWiFi** and hit **Enter**
- Click in the SSID field, type **ContosoWiFi** and hit **Enter**
- Under **Security type**, select **WPA-Enterprise** from the drop-down list
- In the drop-down list for **EAP Type,** select the Extensible Authentication Protocol (EAP) type to authenticate secured wireless connections. For this guide, select **Protected EAP (PEAP)**
- Select **Username and Password** from the **Authentication Method** drop-down list
- Click **Next** to proceed

Assignment

- Click on **+Add All Devices**
- Click **Next** to proceed

Review and Create

Review the Profile information

- Click **Create**

Deploy Win32 App

Before you can deploy a Win32 App to devices in your organization you must first add the app to Microsoft Intune by preparing the app through using the Microsoft Win32 Content Prep Tool.

Prepare Win32 App Content for Upload to Intune

Download the Microsoft Win32 Content Prep Tool from Github – in a browser, access the following URL:

- Click in the address bar and type **https://github.com/Microsoft/Microsoft-Win32-Content-Prep-Tool** and then hit **Enter**

- In the Github file ‘explorer’ window – click on the **IntuneWinAppUtil.exe**
- Click **Download** – this will automatically download to the Windows Downloads folder.

Running the Microsoft Win32 Content Prep Tool

We will deploy WinZIP to devices using Intune and the MEM Console.

- Click in the address bar and type **https://download.winzip.com/gl/gad/winzip25.exe** and then hit **Enter**. WinZip will download immediately

Generating the IntuneWin file:

- Click on **Open File** under **IntuneWinAppUtil.exe**
- In command prompt, type the source (winZip) folder as **c:\WinZIP**
- Type the setup file as **Winzip25.exe**
- Type the output folder as **C:\Output**
- Type **N** (no) for “do you want to specify catalog folder”

Winzip25.exe has been converted to .intunewin and is in your c:\output folder

Deploying the Win32 App using Intune

- Click on the address bar and type **http://endpoint.microsoft.com** and then hit **Enter**
- In the sidebar click on **Apps**
- Click on **All apps**
- Click **Add**
- On the Select app type pane, under the Other app types, select **Windows app (Win32)** from the drop-down list
- Click **Select** to proceed

Select the App package file:

- On the Add App pane, click **Select app package file**
- On the App package file pane, select the **browse button** and **double-click on Output** folder (navigate to C:\Output)
- Click on **`winzip25.intunewin`** file that was created in above steps.
- Click **Open**
- When you are finished, click on **OK** on the App package file pane.

Set App information:

Review app information

- In the Add Publisher field, type **WinZip** and hit **Enter**
- Click **Next**

Program

Enter values for the following fields.

- In the Install Command field, type **Winzip25.exe /q** and hit **Enter**

For the specific arguments your application package supports, contact your application vendor.

- In the Uninstall Command field, type **msiexec.exe /x{{784C04A3-2E5A-4E7C-A7F7-7D97E27859AD}} /quiet** and hit **Enter**

More information: Product Codes - Win32 apps | Microsoft Docs

Return Codes : The Return Codes and Code Type fields should be automatically populated with: 0 – Success 1707 – Success 3010 – Soft Reboot 1641 – Hard Reboot 1618 – Retry

- Click **Next** to proceed

Requirements

Note that these settings are very subjective based on your specific device and device architecture requirements.

- In the **Operating System Architecture** drop-down list, select **64-bit**
- Select **Windows 10 1607** as the **Minimum Operating System** from the drop-down list
- Select **Next** to proceed.

Detection Rules

With Detection Rules we effectively detect the presence of the app on target devices.

- Under **Rules Format,** select **Manually Configure Detection Rules** from the drop-down list
- Click **+Add**
- In the **Rules type,** select **MSI** from the dropdown list.
- In the MSI Product Code field, type: **{28B89EEF-4101-0000-0102-CF3F3A09B77D}** and hit **Enter**

This code can be sourced from the product vendor or alternatively from a device that already has the application installed – and can be found in the Registry: HKEY_CLASSES_ROOT\AppID\winzip64.exe Make sure to include the brackets {}

- Click **OK** to save and proceed
- Click **Next** to proceed

Dependencies

App dependencies are applications that must be installed before your Win32 app can be installed. You can require that other apps are installed as dependencies.

Refer to https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-add#step-5-dependencies for additional guidance.

- Click **Next** to Proceed

Supersedence

When you supersede an application, you can specify which app will be updated or replaced. To update an app, disable the uninstall previous version option. To replace an app, enable the uninstall previous version option.

- Click Next to Proceed

Assignment

Assignment is where we will specify on which Devices the Win32 to be installed – using Azure AD Groups. We can target the App to a User Group or a Device Group.

- When a Device Group is used then all devices will install the app (based on the criteria defined in App profile) and the application will be available to all user that sign onto that device.
- When a User Group is used then the application will be installed on the device where the assigned user has signed in and the application will only be available to that user.
- Click **+Add Group** under **Required**
- Click in the search box and type **All Company** to search for the All Company group
- Select **All Company** from the list
- Click **Select**
- Click **Next** to proceed

Review and Create

Review the values and settings that you entered for the app. Verify that you configured the app information correctly.

- **Scroll down** and then **scroll down again.**
- Click **Create** to add the app to Intune - the Overview pane for the LOB app appears.

At this point, you have completed steps to add a Win32 app to Intune.