

Secure 10: BIOS to UEFI 2017

The Complete Automation Guide for ConfigMgr Administrators



Table of Contents

Introduction	3
Prerequisites	3
Assumptions	3
Vendor Tools	4
Download and Prepare the Vendor Tools	4
Create the Utility Package	4
Dell.....	5
HP	5
Lenovo	7
Create a ConfigMgr Package	8
Create the Task Sequence.....	10
In-place Upgrade	10
Refresh/Replace/Bare Metal	25

Introduction

As companies move to Windows 10, they are also moving to from legacy BIOS to UEFI. UEFI is required for many of Windows 10's security features, such as Secure Boot, Device Guard and Credential Guard. When done manually, this transition requires booting into legacy BIOS, changing a setting, then boot into UEFI and configuring as desired.

UEFI requires a new type of partition table called GUID Partition Table (GPT), whereas legacy BIOS works with Master Boot Record (MBR) partitioning. This means the disk must be repartitioned, which meant losing all data until the Windows 10 Creators Update resolved that issues.

For companies using Microsoft System Center Configuration Manager (ConfigMgr), the entire process can be automated. This includes the move from legacy BIOS to UEFI and the conversion from MBR to GPT.

This document provides step-by-step instructions for ConfigMgr administrators to set up a completely automated solution for BIOS to UEFI conversion during the Windows 10 deployment process. Steps are provided for both in-place upgrades and refresh/replace/bare metal deployments. Also, specific steps for each of three vendors are included: Dell, HP, and Lenovo. Finally, example task sequences—tested and run successfully against all three vendors—are included to help you integrate a fully automated solution into your environment.

With ConfigMgr 1610, Microsoft introduced new capability to simplify automated BIOS to UEFI conversion, making it possible to pre-stage a WinPE boot image to a partition from within an SCCM task sequence. With the Windows 10 Creators Update, Microsoft introduced an MBR2GPT.EXE tool, which can convert a disk from MBR to GPT without losing its data. Both of these new tools are covered in this guide.

This free community resource supersedes all previous BIOS to UEFI documents from Adaptiva.

Prerequisites

Assumptions

This guide assumes you have already created a Refresh/Replace or In-Place Upgrade task sequence. It will detail what customizations need to be added to fully support the MBR2GPT.EXE tool (only for in-place upgrade scenarios) as well as handle BIOS to UEFI conversion. The getting started guide will walk you through the tools you need to obtain and set up for both deployment types.

This guide assumes that you already have the following packages created and distributed:

- Any required driver packages for the models you will use
- Windows 10 1703 Operating System Image
- Windows 10 1703 Operating System Upgrade Package
- A boot image created with the Windows 10 ADK for 1703

This guide also assumes you are aware of the support statement from the PC manufacturer for whether it supports UEFI, and whether or not a reboot is required between any of the conversion steps to enable the features you would like to manipulate. The models tested for this guide are HP Zbook Studio G3, Dell Optiplex 7040, and Lenovo T430.

Vendor Tools

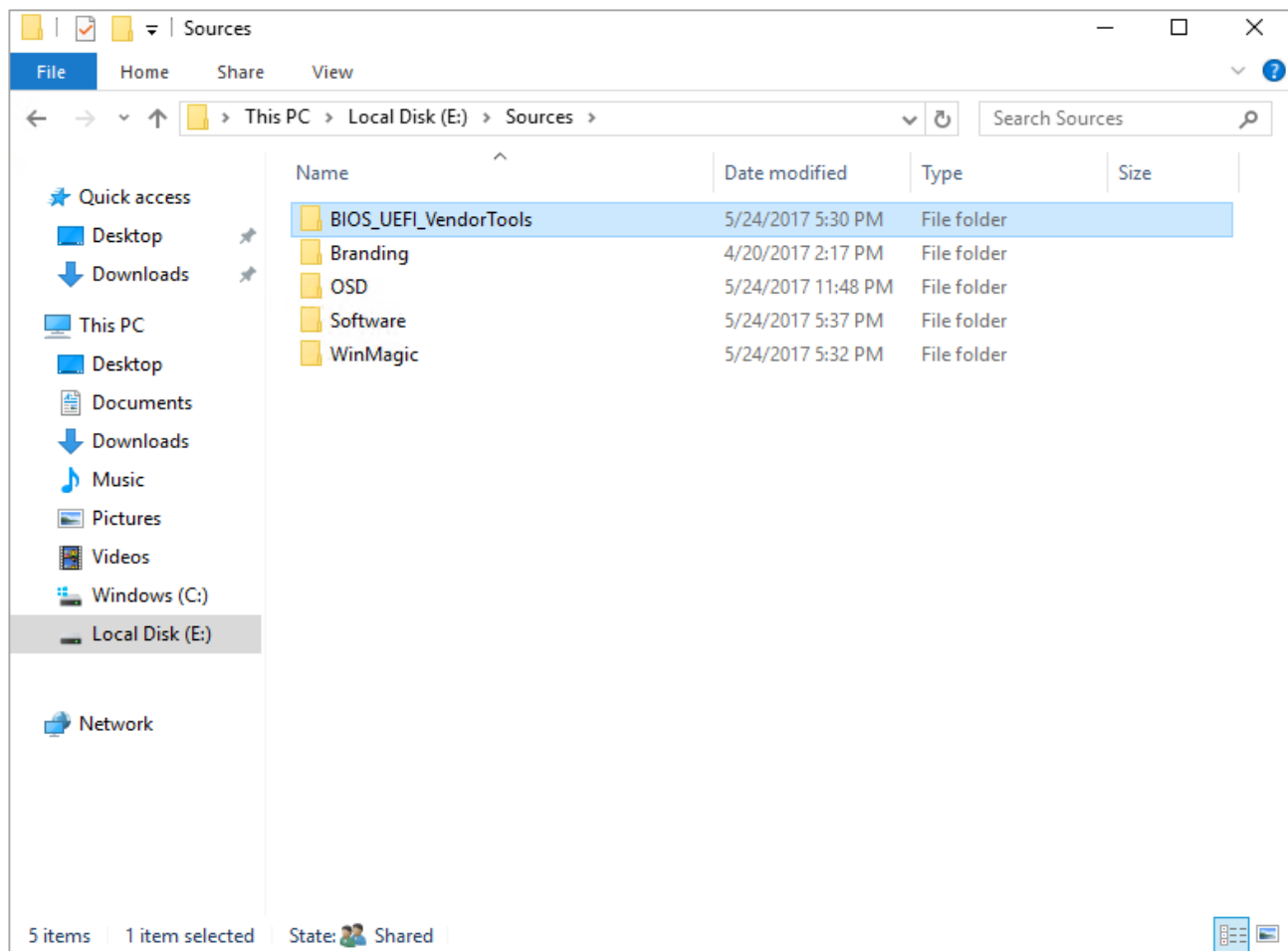
Download and Prepare the Vendor Tools

At the time of this writing, the vendor tools are located at the following links:

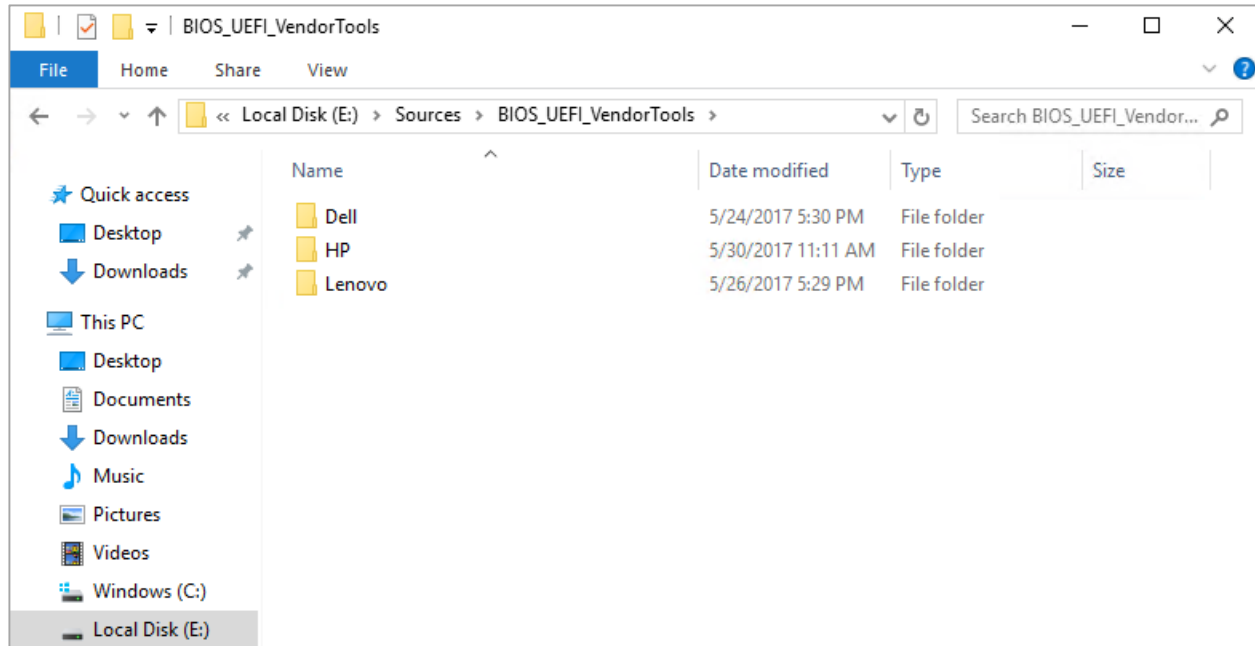
- Dell Command Configure
http://downloads.dell.com/FOLDER03164404M/1/SystemsManagement_Application_54W6D_WN32_3.1.0.250_A00.EXE
- HP BIOS Configuration Utility (BCU)
http://ftp.hp.com/pub/caps-softpaq/cmit/HP_BCU.html
- Lenovo Sample Scripts for BIOS Deployment Guide (Script.zip)
<https://support.lenovo.com/us/en/documents/ht100612>

Create the Utility Package

1. Download all the utilities above
2. Create a folder in your content library named **BIOS_UEFI_VendorTools**

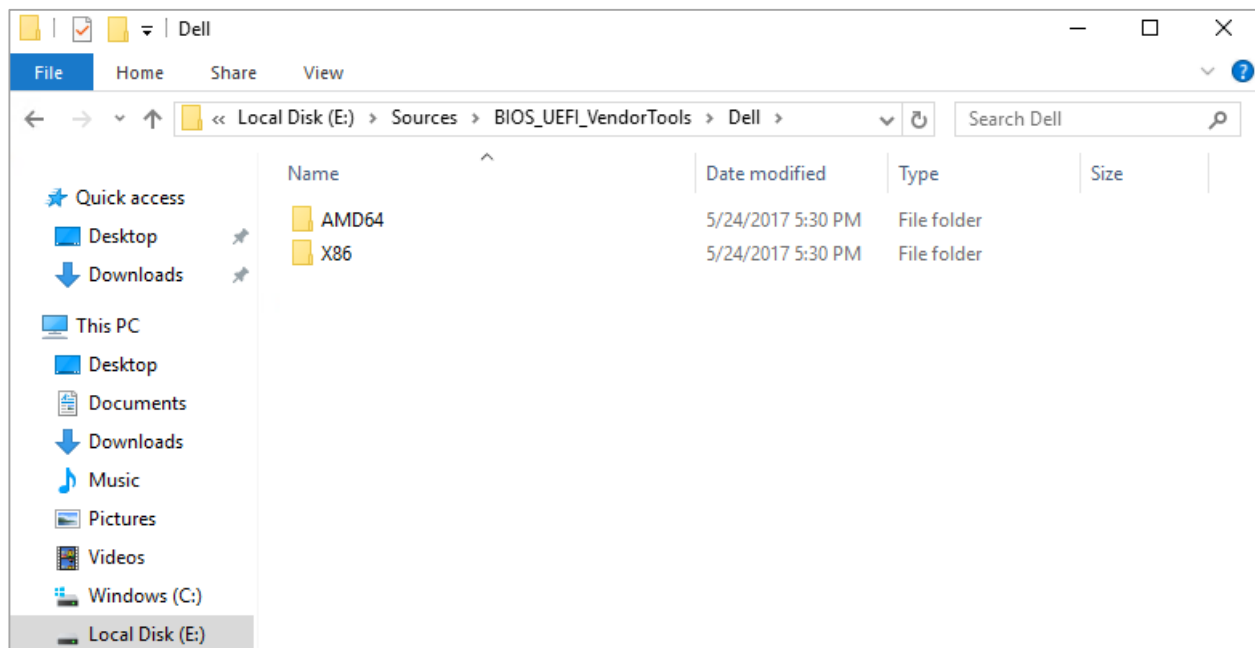


3. Create subfolders inside the **BIOS_UEFI_VendorTools** folder for each vendor



Dell

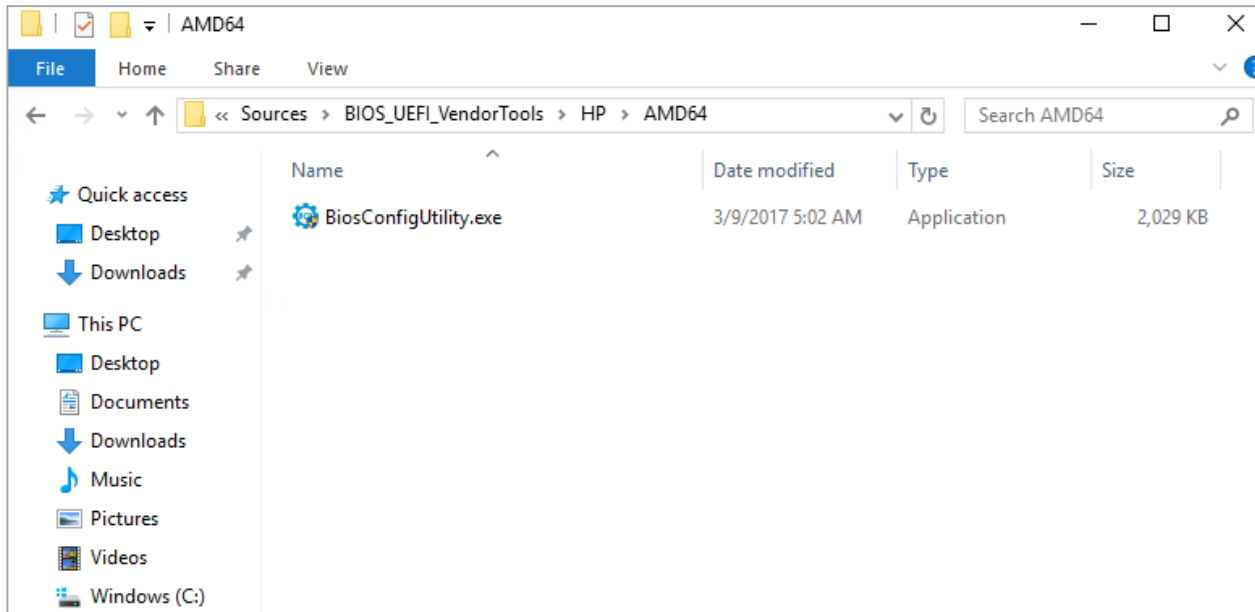
1. Extract the contents of the .exe that was downloaded
2. In the extracted folder, run the Command_Configure.msi, noting where it installed
3. Copy the contents of the extracted msi to the **Dell** folder created in the **BIOS_UEFI_VendorTools** folder created in the previous section and rename the "x86_64" folder to AMD64



HP

1. Extract the downloaded exe obtained in Step 1
2. Inside of the extracted folder will be a setup.exe which needs to run to unpack the utility, take note of where the setup.exe unpacks

3. In the **HP** folder, create two subfolders named **X86** and **AMD64**.
4. Copy the BIOSConfigUtility.exe from the extracted folder created in step 8 to the x86 folder. Copy the **BIOSConfigUtility64.exe** to the AMD64 folder and rename it to **BIOSConfigUtility.exe**

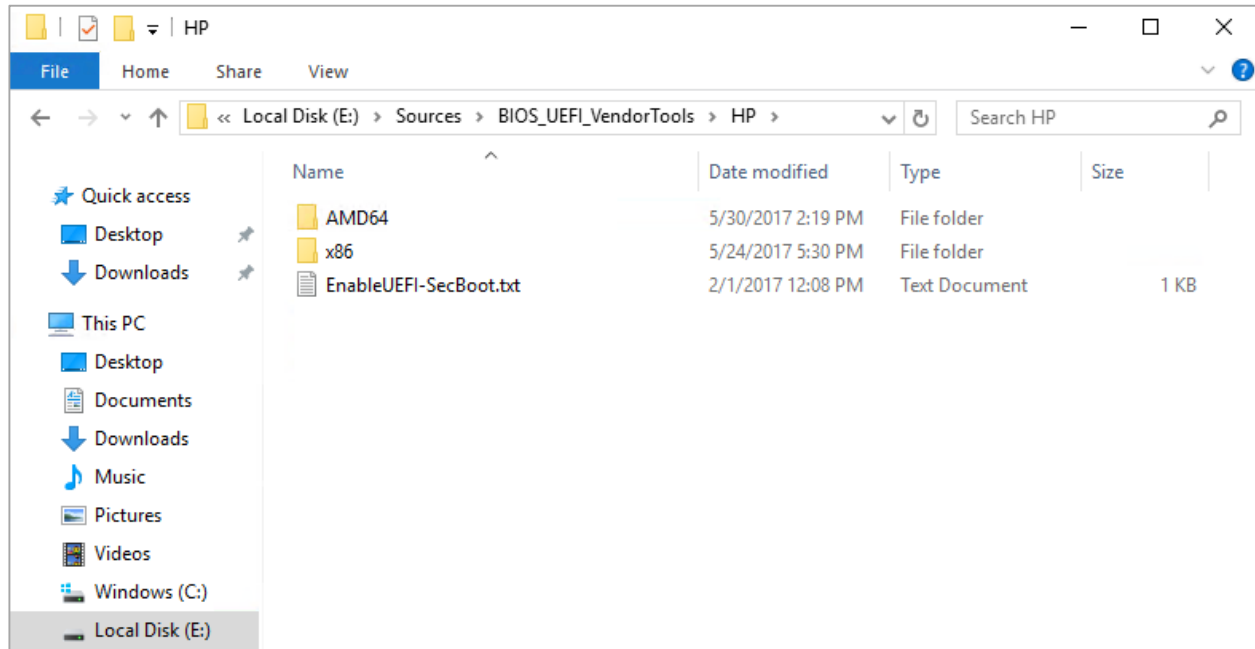


5. Use the BIOS Configuration Utility User's Guide in the folder where the utility was extracted for guidance on how to create a text file that will be placed in the HP folder, named: **EnableUEFI-SecBoot.txt**. The text file below is an example only and you may need to create your own, depending on the model being used.

```
BIOSConfig 1.0
;
;   Originally created by BIOS Configuration Utility
;   Version: 4.0.15.1
;   Thanks to Nathan Kofahl from HP, this file works for a Zbook Studio G3
;   Found 178 settings
;
TPM Device
    Hidden
    *Available
TPM State
    Disable
    *Enable
Clear TPM
    *No
    On next boot
TPM Activation Policy
    F1 to Boot
    Allow user to reject
    *No prompts
Fast Boot
    Disable
    *Enable
UEFI Boot Options
    Disable
    *Enable
```

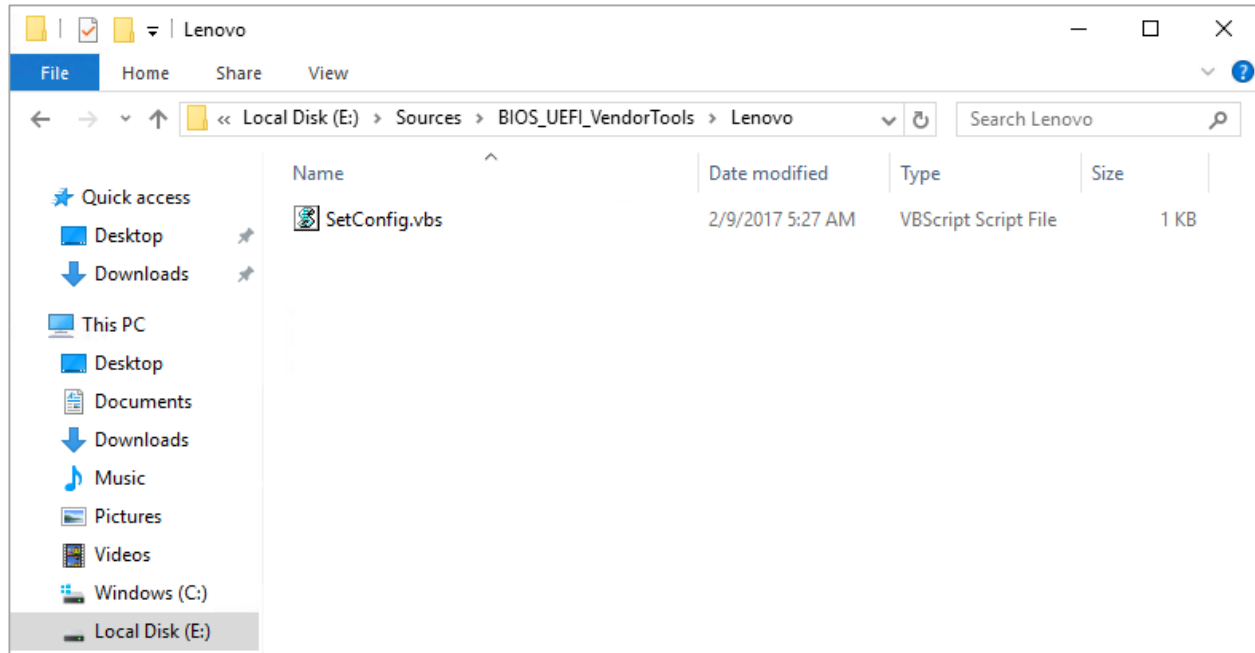
```
Configure Legacy Support and Secure Boot
  Legacy Support Enable and Secure Boot Disable
  *Legacy Support Disable and Secure Boot Enable
  Legacy Support Disable and Secure Boot Disable
Configure Option ROM Launch Policy
  All Legacy
  *All UEFI
  All UEFI Except Video
```

6. The HP folder should now look like this:



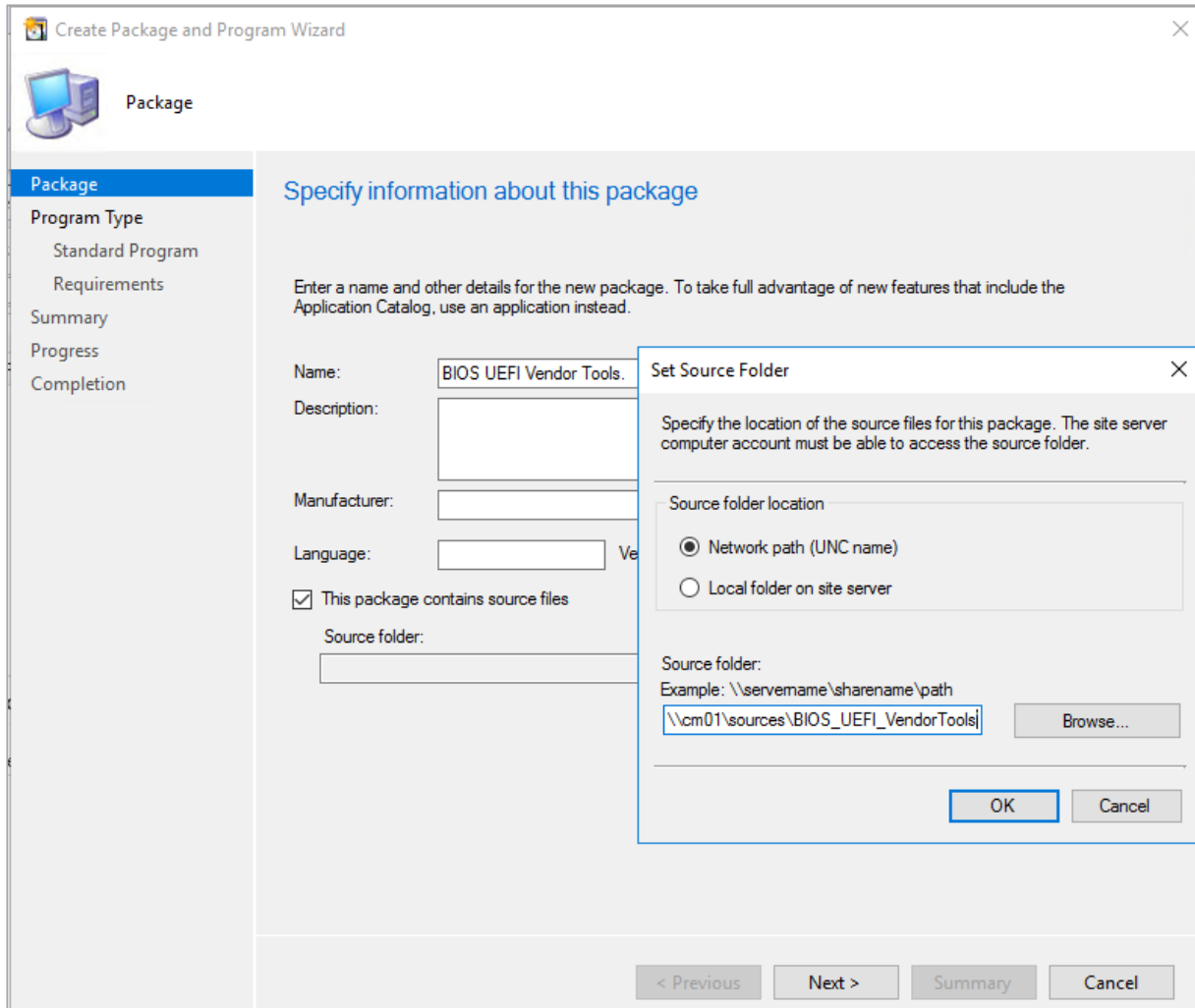
Lenovo

7. Extract the contents of the Scripts.zip folder obtained in Step 1
8. Copy the **SetConfig.vbs** to the Lenovo folder



Create a ConfigMgr Package

1. In the ConfigMgr console in **\Software Library\Overview\Application Management\Packages**, click the Create Package button on the ribbon
2. In the Create Package and Program Wizard, give the package a name, and tick the box for “This package contains source files” and click browse
3. In the Set Source Folder window, point to the where the Vendor tools reside.
4. Click OK, and then Next



Create Package and Program Wizard

Package

Specify information about this package

Enter a name and other details for the new package. To take full advantage of new features that include the Application Catalog, use an application instead.

Name: BIOS UEFI Vendor Tools

Description:

Manufacturer:

Language:

☒ This package contains source files

Source folder:

Set Source Folder

Specify the location of the source files for this package. The site server computer account must be able to access the source folder.

Source folder location

☒ Network path (UNC name)

☐ Local folder on site server

Source folder:

Example: \\servername\sharename\path

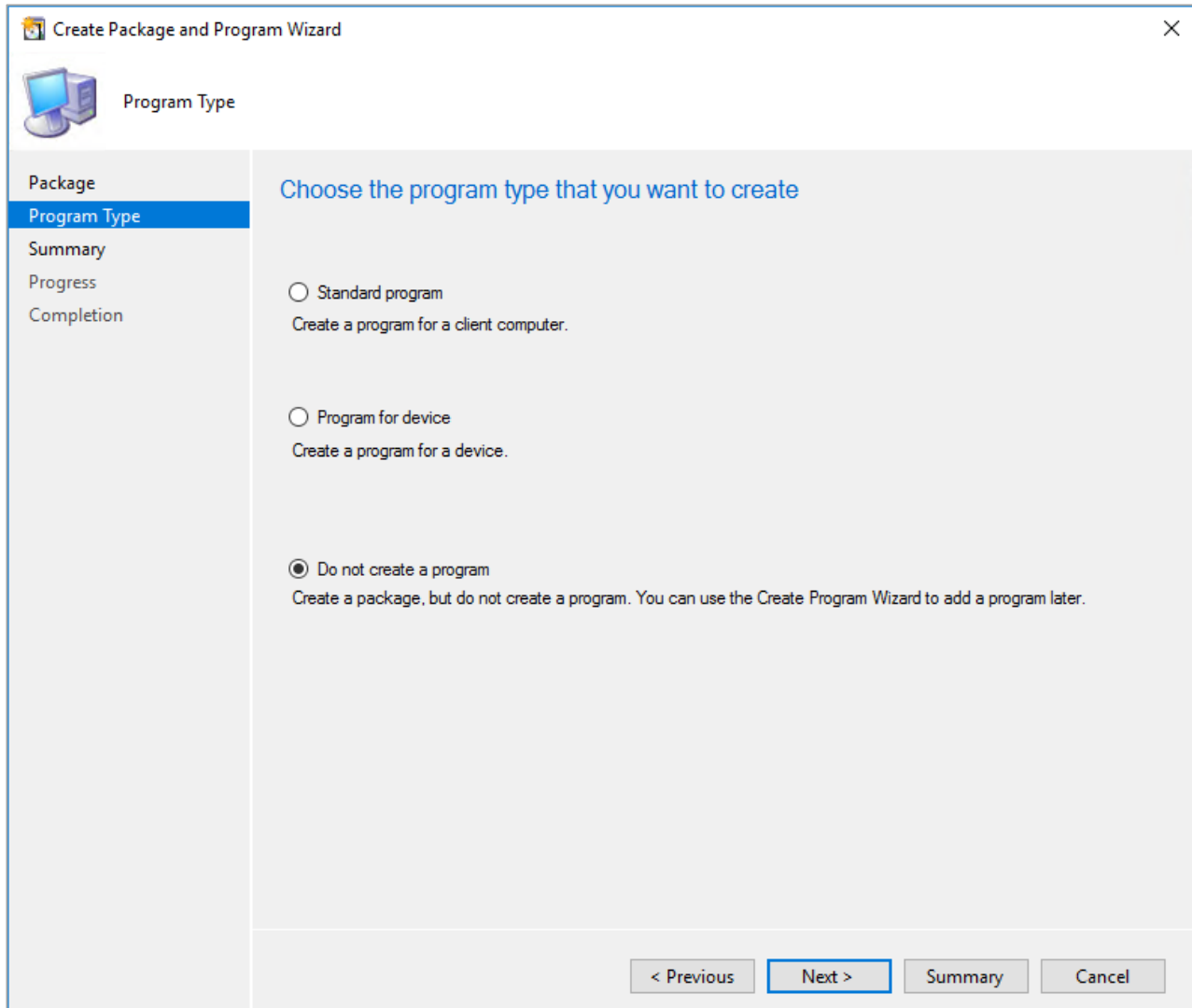
\\cm01\sources\BIOS_UEFI_VendorTools

Browse...

OK Cancel

< Previous Next > Summary Cancel

5. In Program Type, click the “Do not create a program” radio button, and then click Next through the rest of the Wizard



The screenshot shows the 'Create Package and Program Wizard' dialog box, specifically the 'Program Type' step. The left sidebar contains a list of steps: Package, Program Type (selected), Summary, Progress, and Completion. The main area is titled 'Choose the program type that you want to create' and contains three radio button options:

- ☐ Standard program
Create a program for a client computer.
- ☐ Program for device
Create a program for a device.
- ☒ Do not create a program
Create a package, but do not create a program. You can use the Create Program Wizard to add a program later.

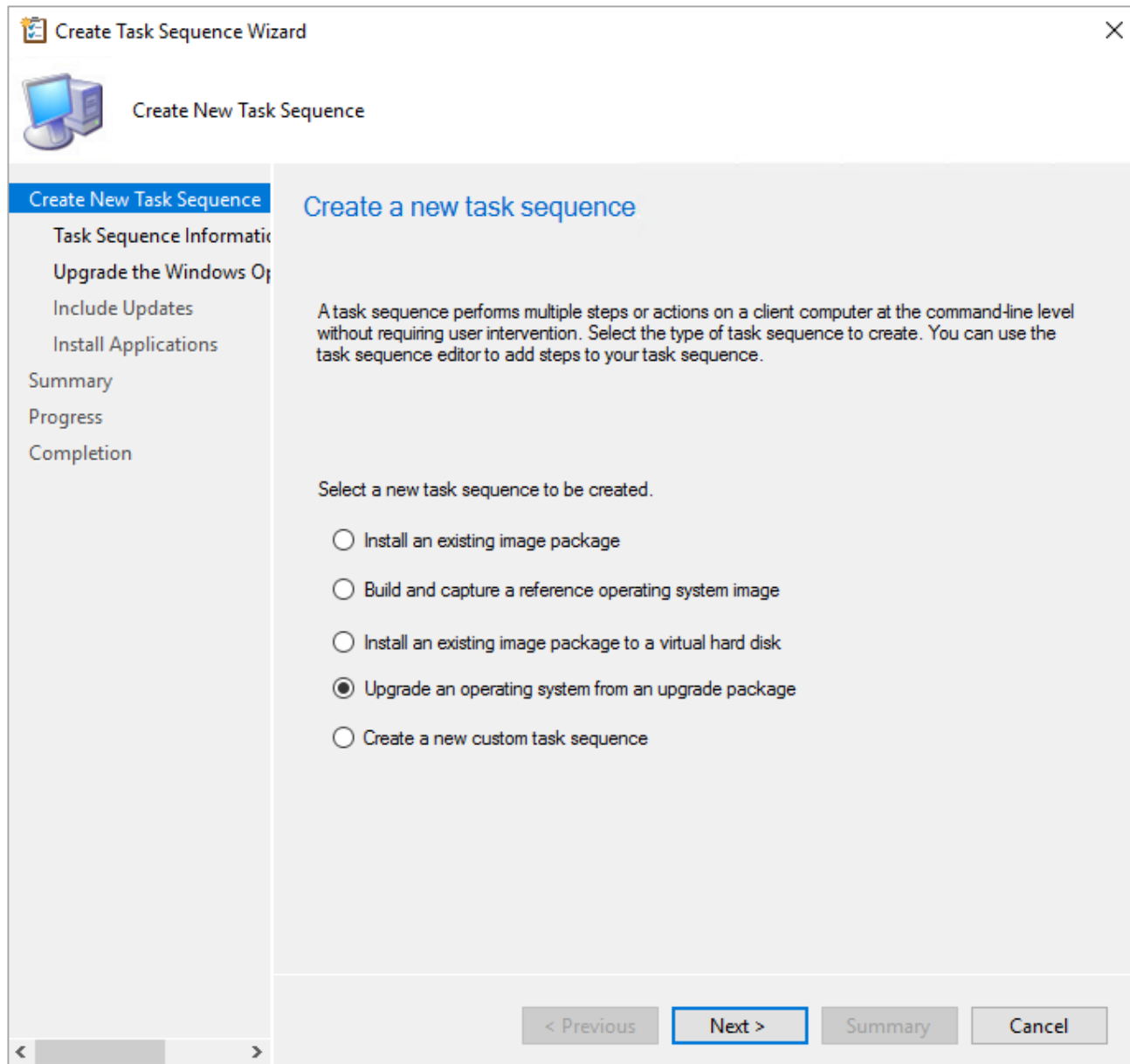
At the bottom right, there are four buttons: '< Previous', 'Next >' (highlighted with a blue border), 'Summary', and 'Cancel'.

- When the package is created, click **"Distribute Content"** on the ribbon to send the package to your Distribution Points

Create the Task Sequence

In-place Upgrade

- In **\Software Library\Overview\Operating Systems\Task Sequences**, click Create Task Sequence on the ribbon
- In the Wizard, pick upgrade an operating system from an upgrade package



Create Task Sequence Wizard

Create New Task Sequence

Create a new task sequence

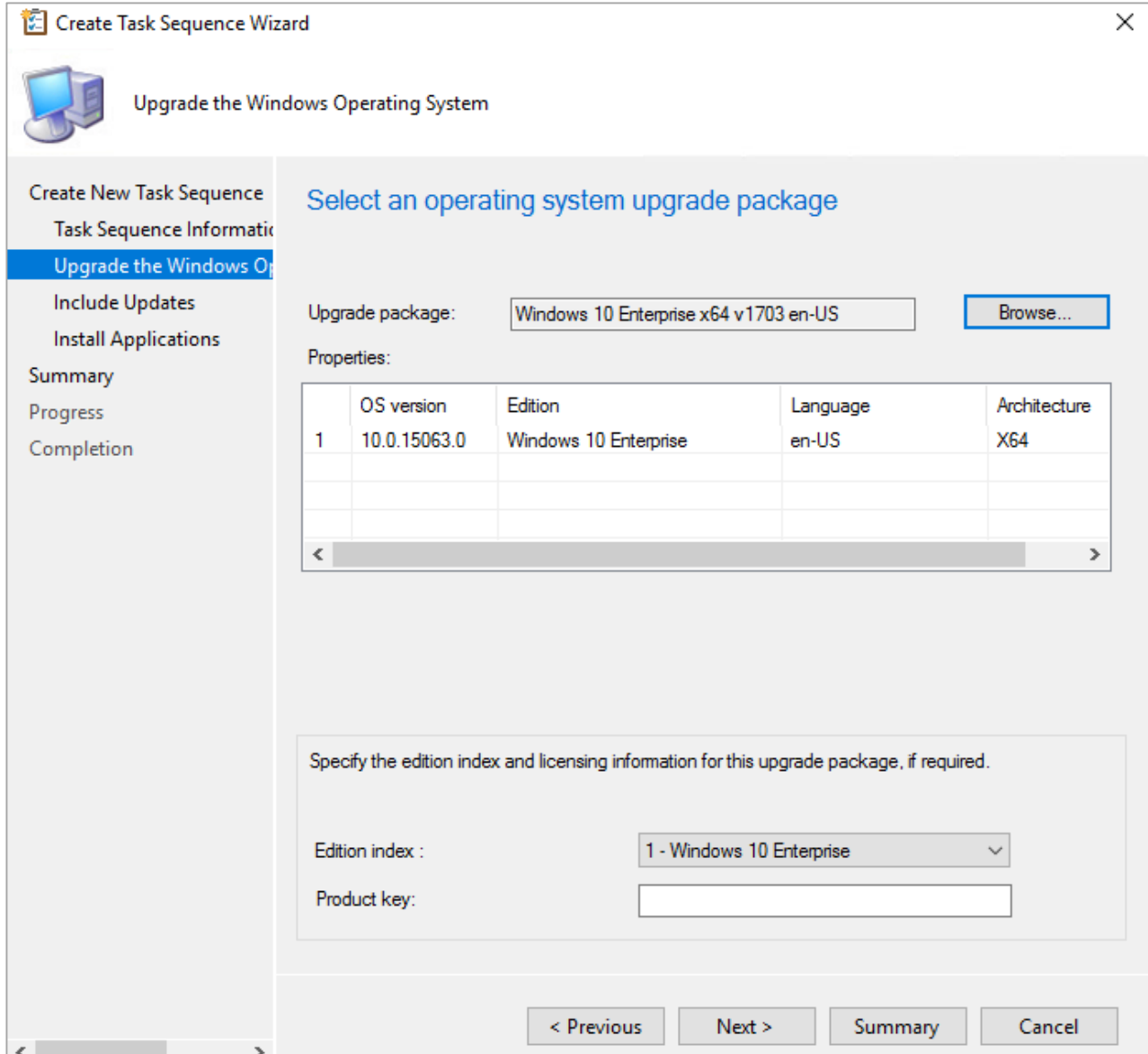
A task sequence performs multiple steps or actions on a client computer at the command-line level without requiring user intervention. Select the type of task sequence to create. You can use the task sequence editor to add steps to your task sequence.

Select a new task sequence to be created.

- ☐ Install an existing image package
- ☐ Build and capture a reference operating system image
- ☐ Install an existing image package to a virtual hard disk
- ☒ Upgrade an operating system from an upgrade package
- ☐ Create a new custom task sequence

< Previous **Next >** Summary Cancel

3. In the Task Sequence Information step, give the Task Sequence a Name
4. Add a Windows 10 1703 Upgrade Package and a product key (if necessary)



Create Task Sequence Wizard

Upgrade the Windows Operating System

Create New Task Sequence
Task Sequence Information
Upgrade the Windows Operating System
Include Updates
Install Applications
Summary
Progress
Completion

Select an operating system upgrade package

Upgrade package:

Properties:

	OS version	Edition	Language	Architecture
1	10.0.15063.0	Windows 10 Enterprise	en-US	X64

< >

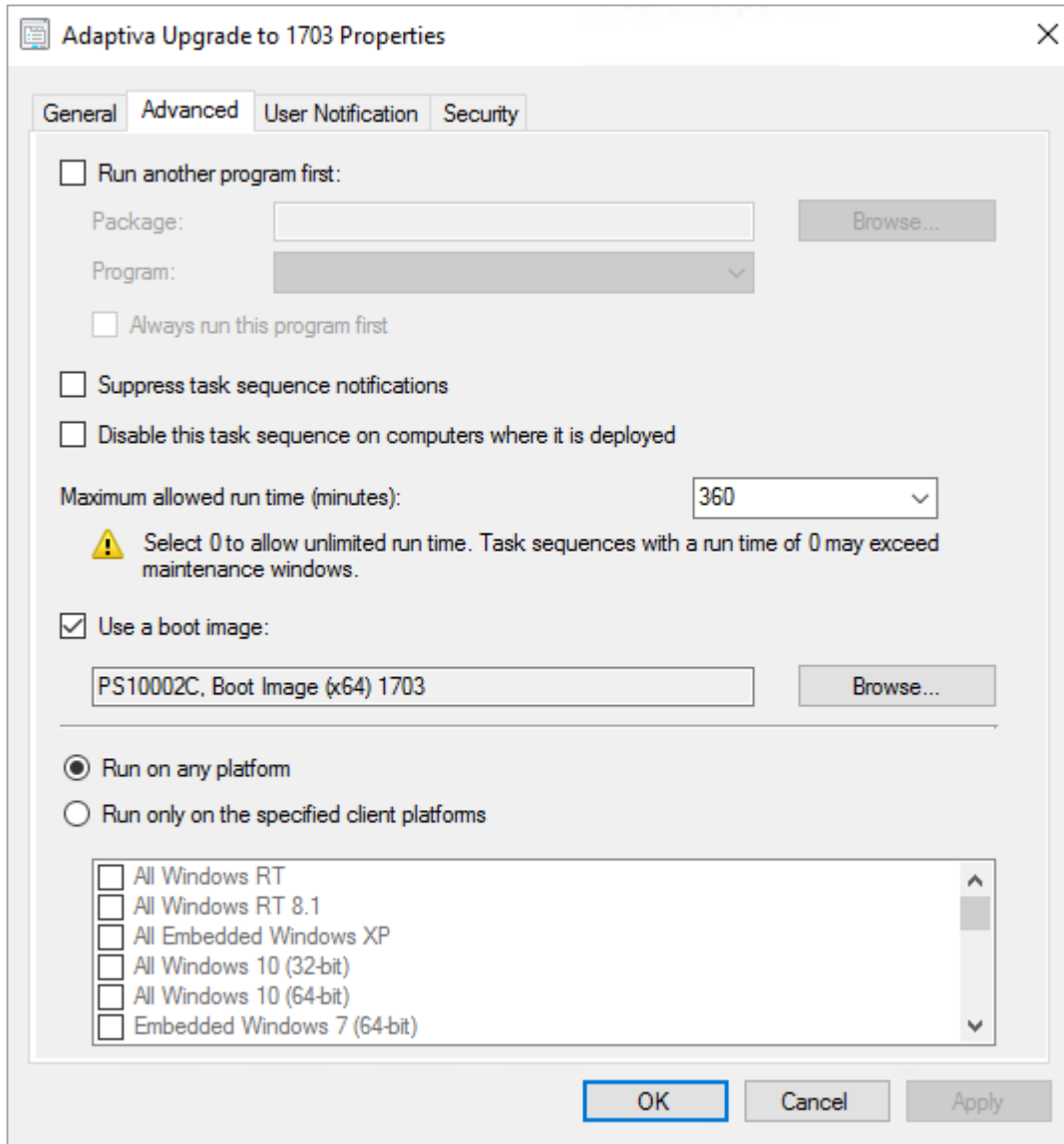
Specify the edition index and licensing information for this upgrade package, if required.

Edition index :

Product key:

< Previous Next > Summary Cancel

5. In the Include Updates and Install Applications steps, determine if the sequence will apply any additional updates or install applications
6. Click Next through the rest of the Wizard
7. Right-click the newly created sequence and select Properties
8. In the Advanced tab of the sequence properties, tick the box "Use a boot image" and assign a boot image created with **ADK 1703**, click OK and then close the Properties box



The screenshot shows the 'Adaptiva Upgrade to 1703 Properties' dialog box with the 'Advanced' tab selected. The 'General' tab is also visible. The 'Advanced' tab contains the following settings:

- ☐ Run another program first:
 - Package:
 - Program:
 - ☐ Always run this program first
- ☐ Suppress task sequence notifications
- ☐ Disable this task sequence on computers where it is deployed
- Maximum allowed run time (minutes):
- ☐ Use a boot image:
 -
- ☒ Run on any platform
- ☐ Run only on the specified client platforms
 - ☐ All Windows RT
 - ☐ All Windows RT 8.1
 - ☐ All Embedded Windows XP
 - ☐ All Windows 10 (32-bit)
 - ☐ All Windows 10 (64-bit)
 - ☐ Embedded Windows 7 (64-bit)

Buttons at the bottom: OK, Cancel, Apply.

9. Right click the sequence and click edit to open the Task Sequence Editor
10. In the Upgrade the Operating System group, click the Restart Computer action, and pick the radio button to reboot to the **boot image** you assigned to the sequence above. Customize any user notification as necessary

Adaptiva InPlace Upgrade to 1703 Task Sequence Editor

Add ▾ Remove ▾

Prepare for Upgrade

- ✓ Check Readiness for Upgrade

Upgrade the Operating System

- ✓ Upgrade Operating System
- ✓ **Restart Computer**

Post-Processing

- ✓ Rollback

Properties Options

Type: Restart Computer

Name: Restart Computer

Description:

Specify what to run after restart:

☒ The boot image assigned to this task sequence

☐ The currently installed default operating system

☒ Notify the user before restarting

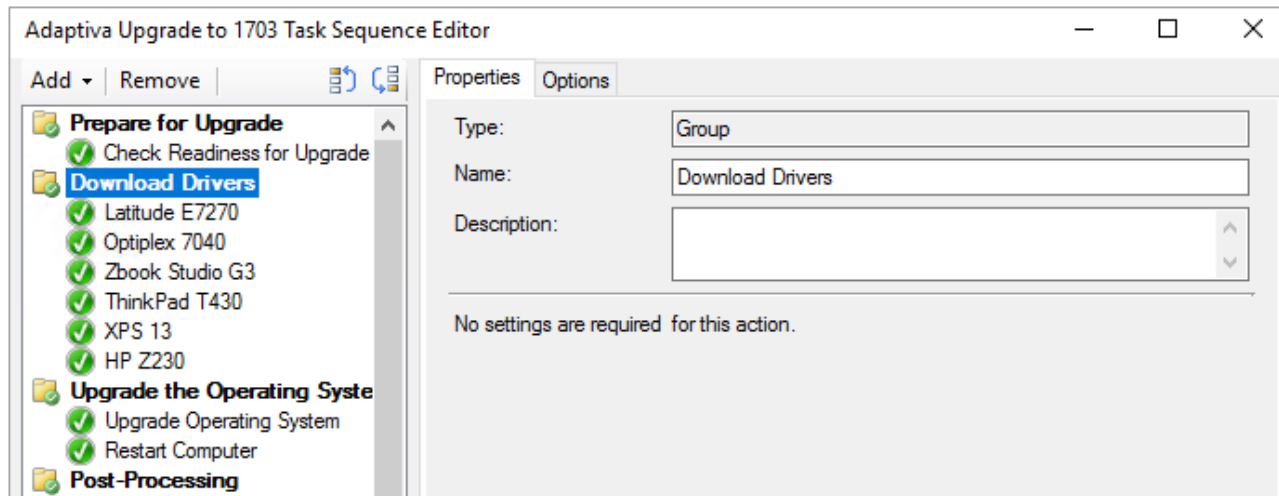
Notification message:

Microsoft Windows operating system is being upgraded. The computer must reboot to continue.

Message display time-out (seconds): 10

OK Cancel Apply

- Between the Prepare for Upgrade and Upgrade Operating System groups, create a group named Download Drivers
- In the download drivers group, use the Download Package content action to add drivers to the sequence for each model that will be upgraded



13. For each model, do the following:
 - a. Name the action after the package
 - b. Specify a custom path of **C:\W10Drivers**
 - c. Save the Path as a variable: **W10Drivers**

Adaptiva InPlace Upgrade to 1703 Task Sequence Editor

Add ▾ Remove ▾

Prepare for Upgrade

- ✓ Check Readiness for Upgrade

Download Drivers

- ✓ Latitude E7270
- ✓ Optiplex 7040
- ✓ Zbook Studio G3
- ✓ ThinkPad T430
- ✓ XPS 13
- ✓ HP Z230

Upgrade the Operating System

- ✓ Upgrade Operating System
- ✓ Restart Computer

Post-Processing

Rollback

Properties Options

Type: Download Package Content

Name: Latitude E7270

Description:

	Name	Type	Size (MB)	Package ID
1	Windows 10 x 64 Dell Latitude E...	Driver Packa...	1070	PS100006

Place into the following location:

☐ Task sequence working directory

☐ Configuration Manager client cache

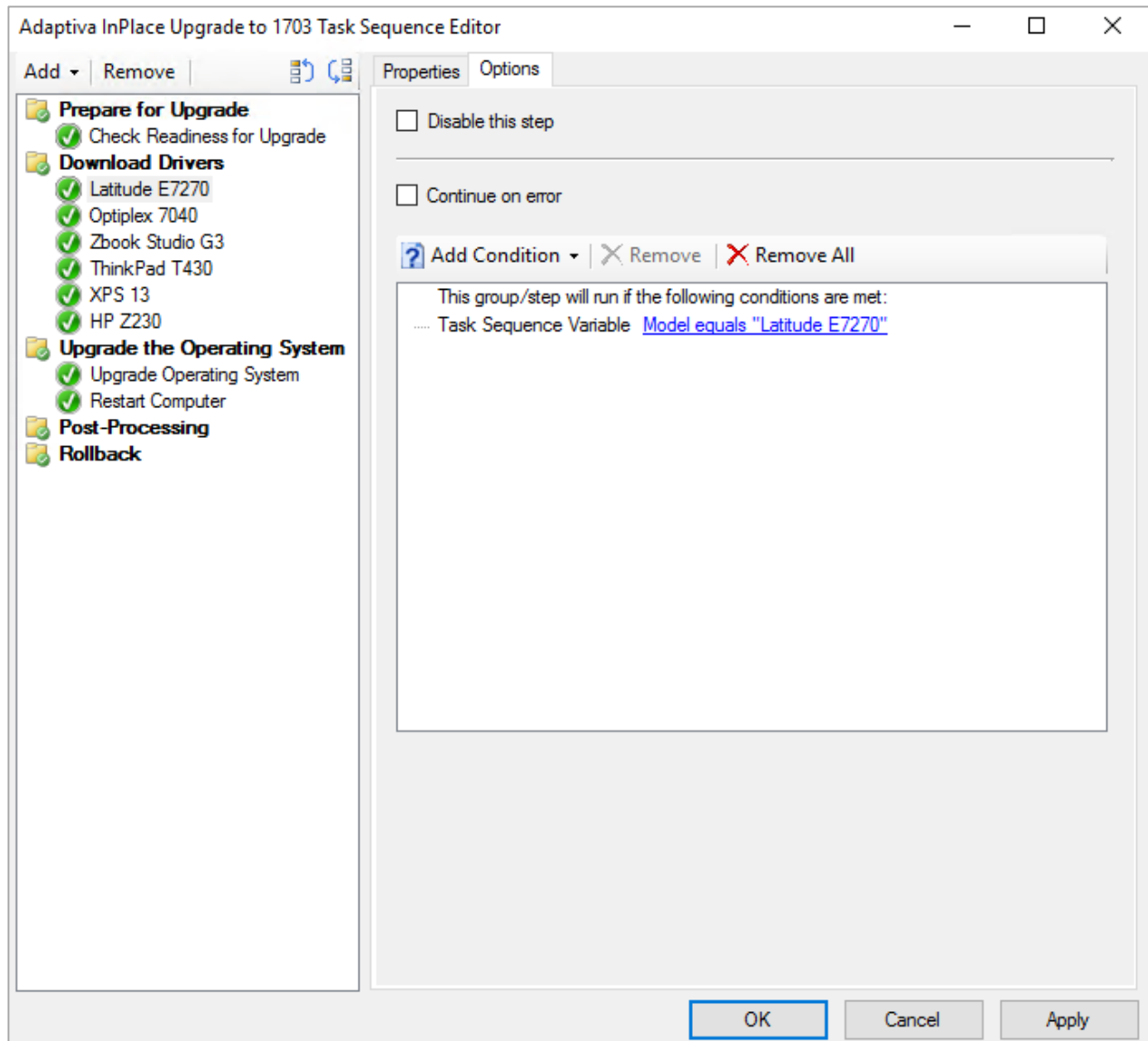
☒ Custom path: C:\W10Drivers

☒ Save path as a variable: W10Drivers

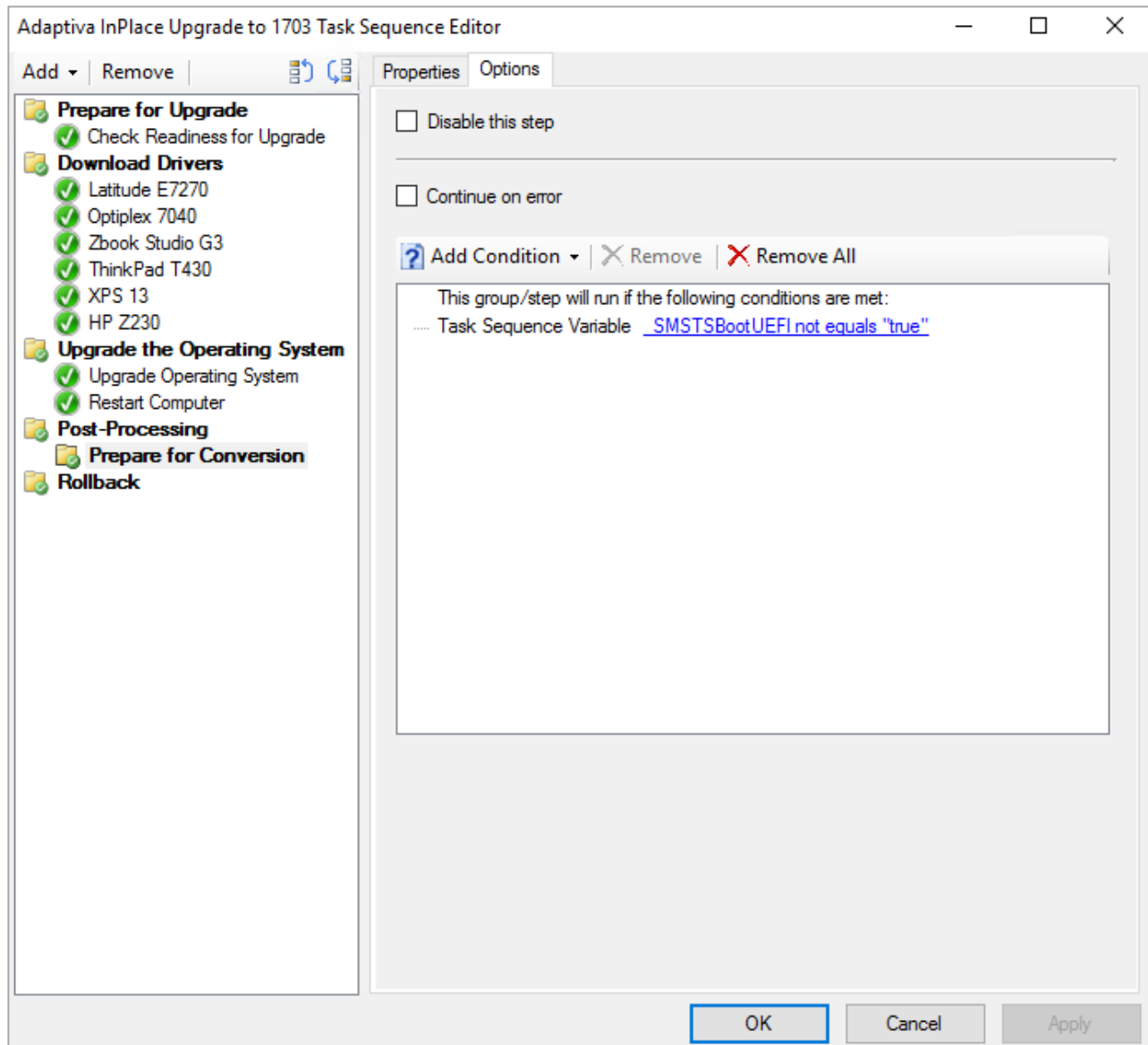
☒ If a package download fails, continue downloading other packages in the list

OK Cancel Apply

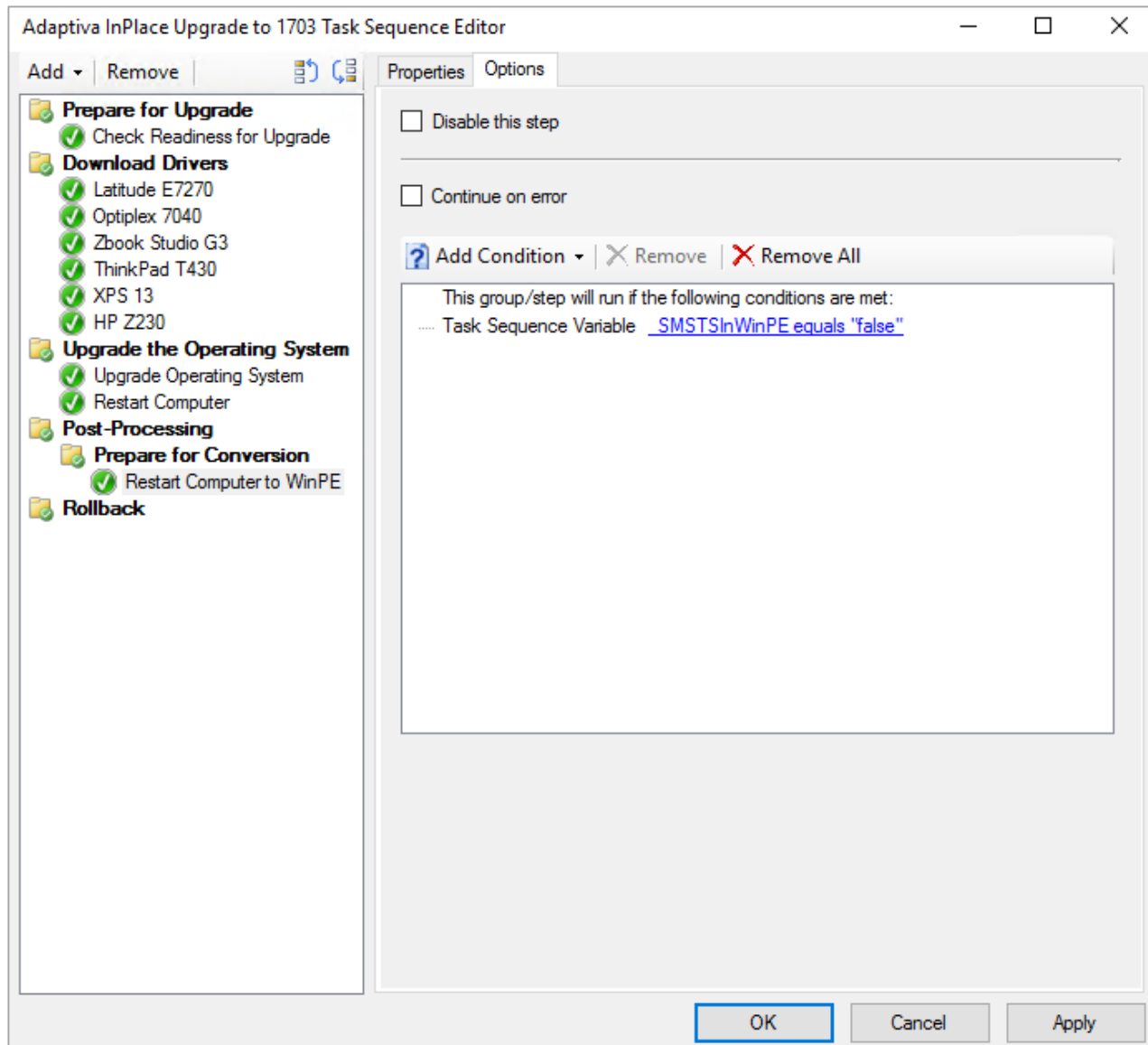
- d. In the options tab, set a task sequence variable under the Options tab so that the engine knows to do the step on a per-model basis (for example, Model equals Latitude E7270)



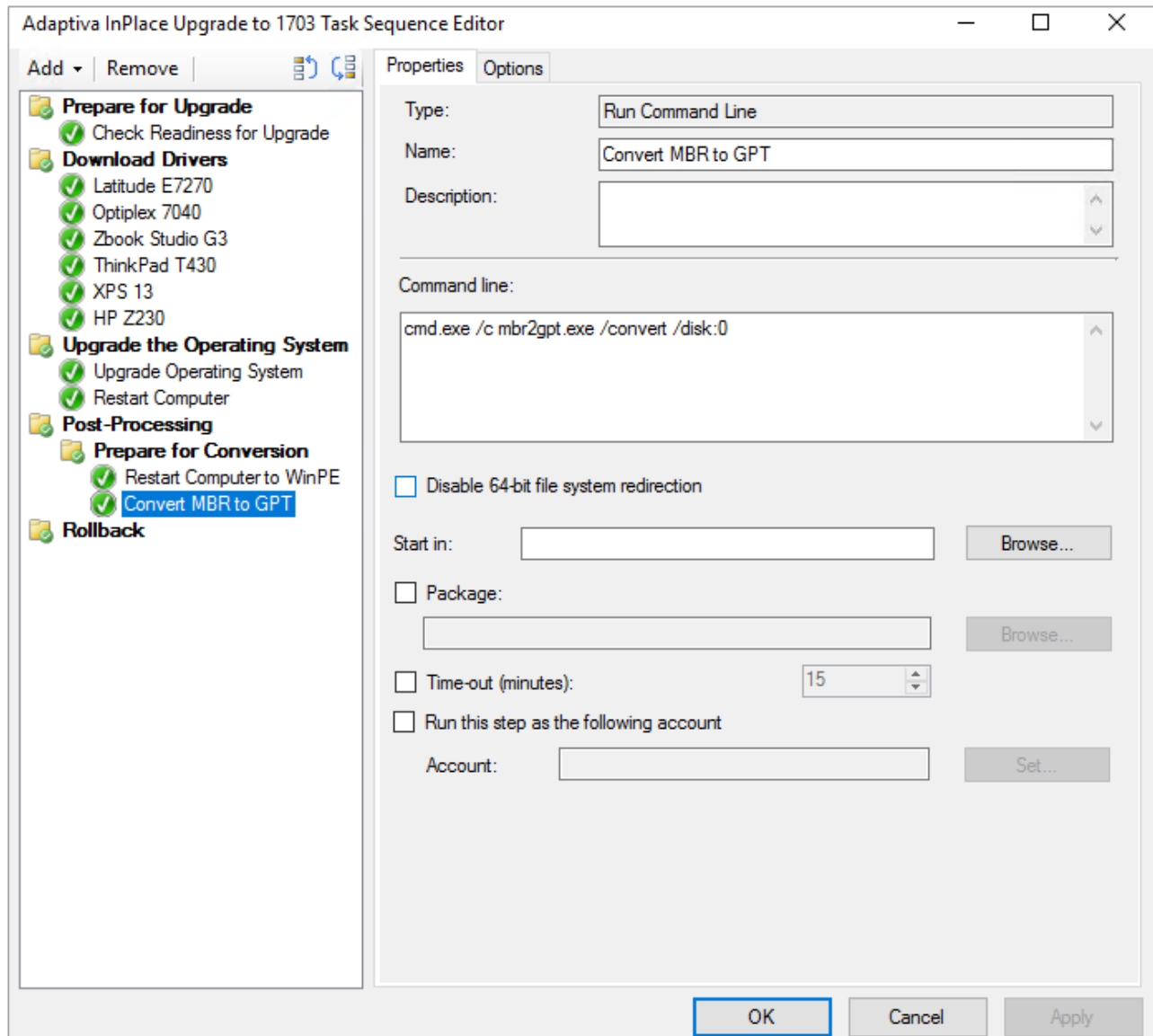
14. In the Post Processing Group, create a new Group called Prepare for Conversion and set the following Task Sequence Variable: **_SMSTSBootUEFI not equals true**



15. Add a reboot action to reboot to the **boot image** assigned to your task sequence
 - a. Set a user notification message if required
 - b. In the Options tab set the following Task Sequence Variable: **_SMSTSInWinPE equals false**

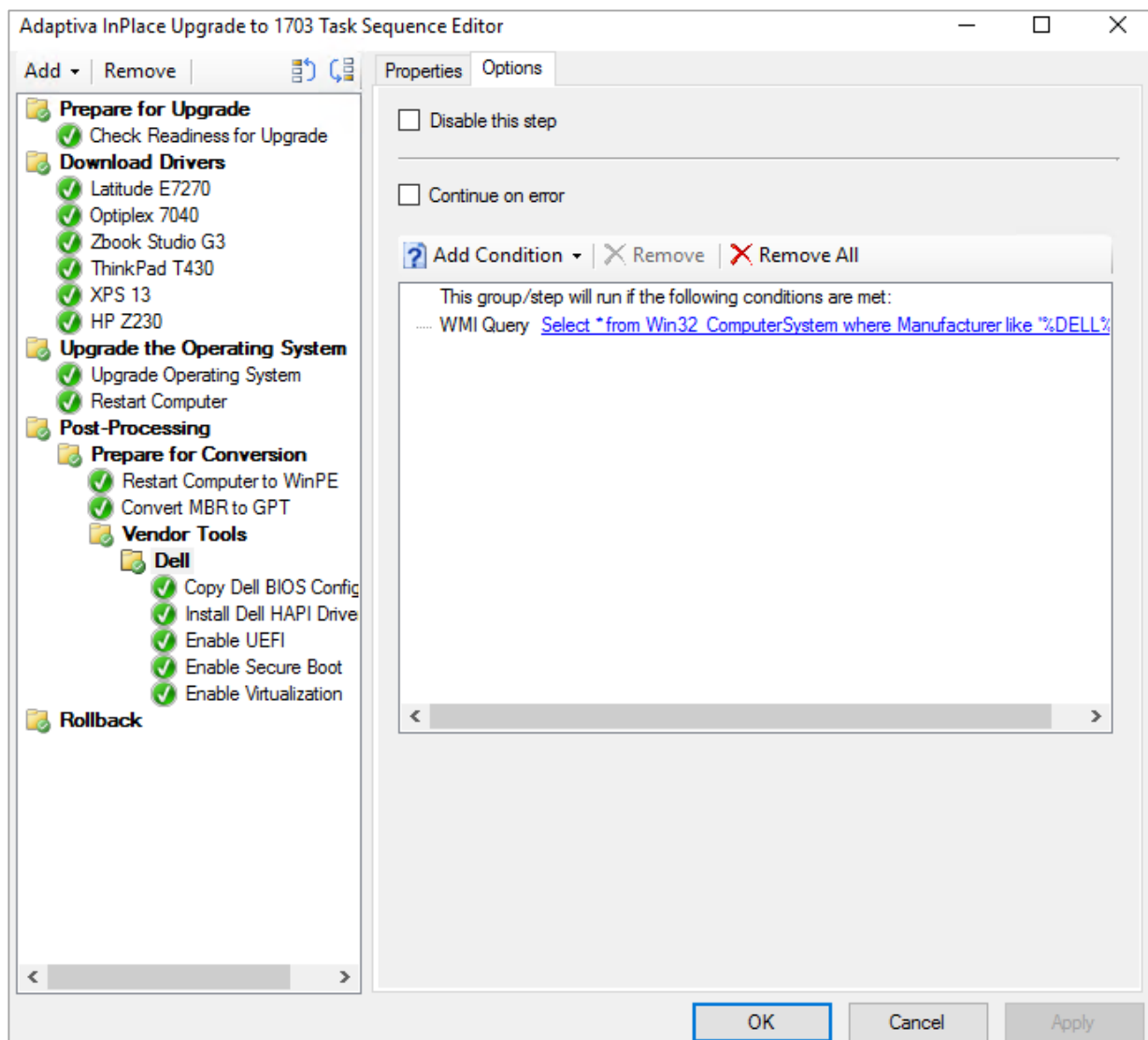


16. Create a Run Command Line named Convert MBR to GPT using the following command line: `cmd.exe /c mbr2gpt.exe /convert /disk:0`



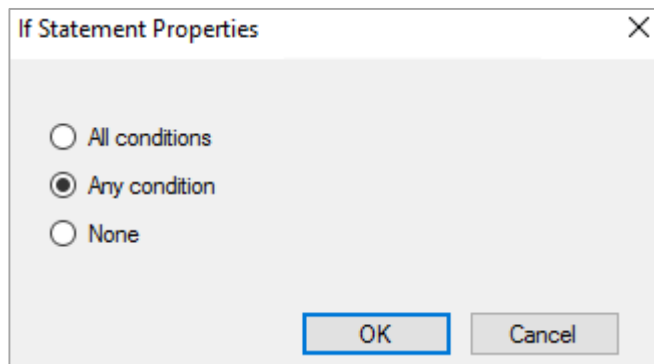
17. Create a new Group called Vendor Tools
 - a. Create a subgroup of Vendor Tools called Dell
 - i. In the Options tab, create the following WMI Query: Select * from Win32_ComputerSystem where Manufacturer like '%DELL%'
 - ii. Create a Run Command Line action named Copy Dell BIOS Config Tools
 1. Command Line: %comspec% /c xcopy .\DELL*. * %systemdrive%\BIOS\toUEFI\DELL /s /y /i
 2. Package: BIOS to UEFI Vendor Tools package
 - iii. Create a Run Command Line action named Install Dell HAPI Drivers
 1. Command Line: %comspec% /c %systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\HAPI\HAPIInstall.bat
 2. Do not assign a package
 - iv. Create a Run Command Line action named Enable UEFI

1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe bootorder --activebootlist=uefi
2. Do not assign a package
- v. Create a Run Command Line action named Enable Secure Boot
 1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe --secureboot=enable
 2. Do not assign a package
- vi. Create a Run Command Line action named Enable Virtualization
 1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe --virtualization=enable
 2. Do not assign a package

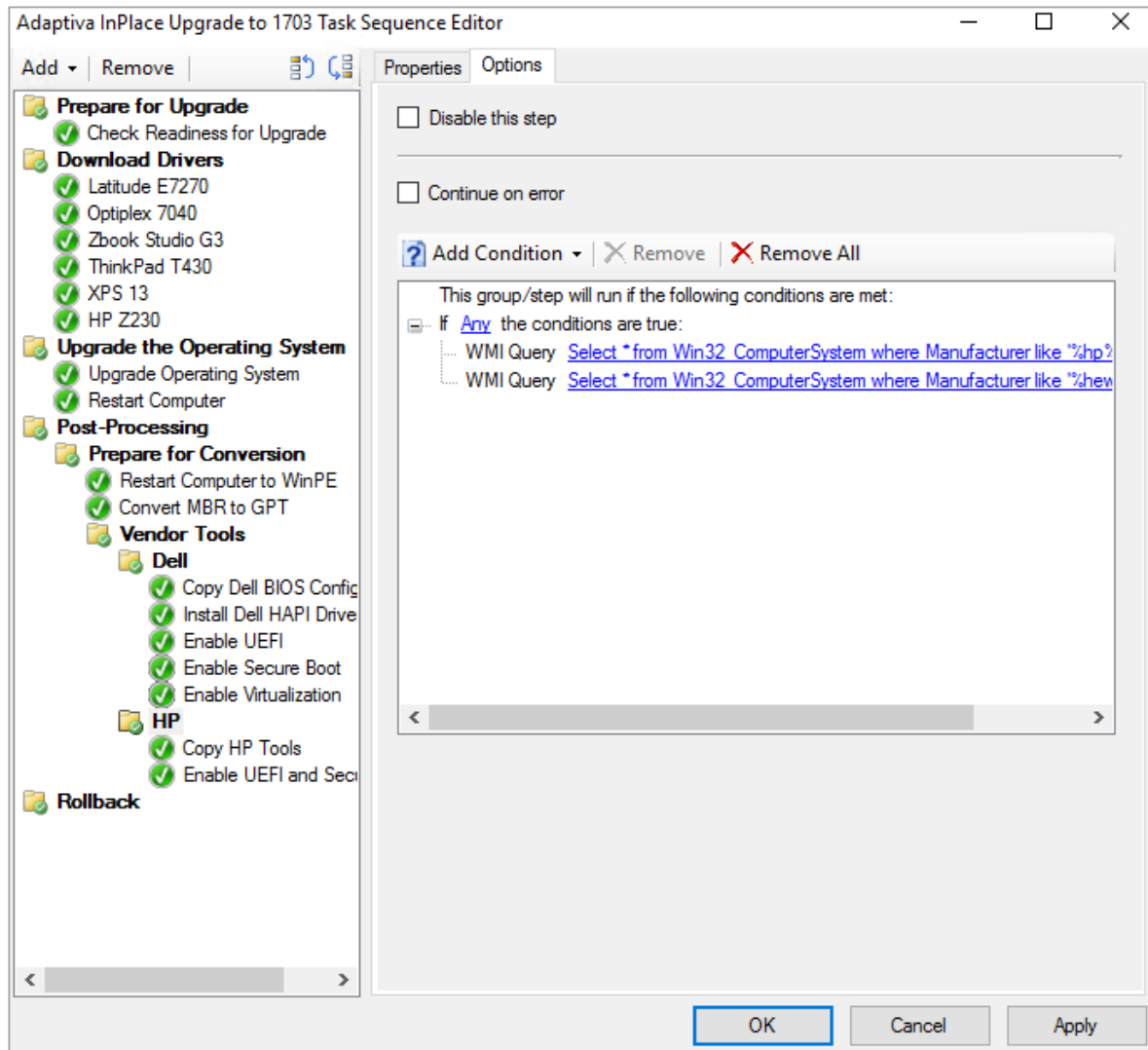


- b. Create a subgroup of Vendor Tools called HP
 - i. In the Options tab, set the following condition:

1. If Statement
2. If **ANY** conditions are true

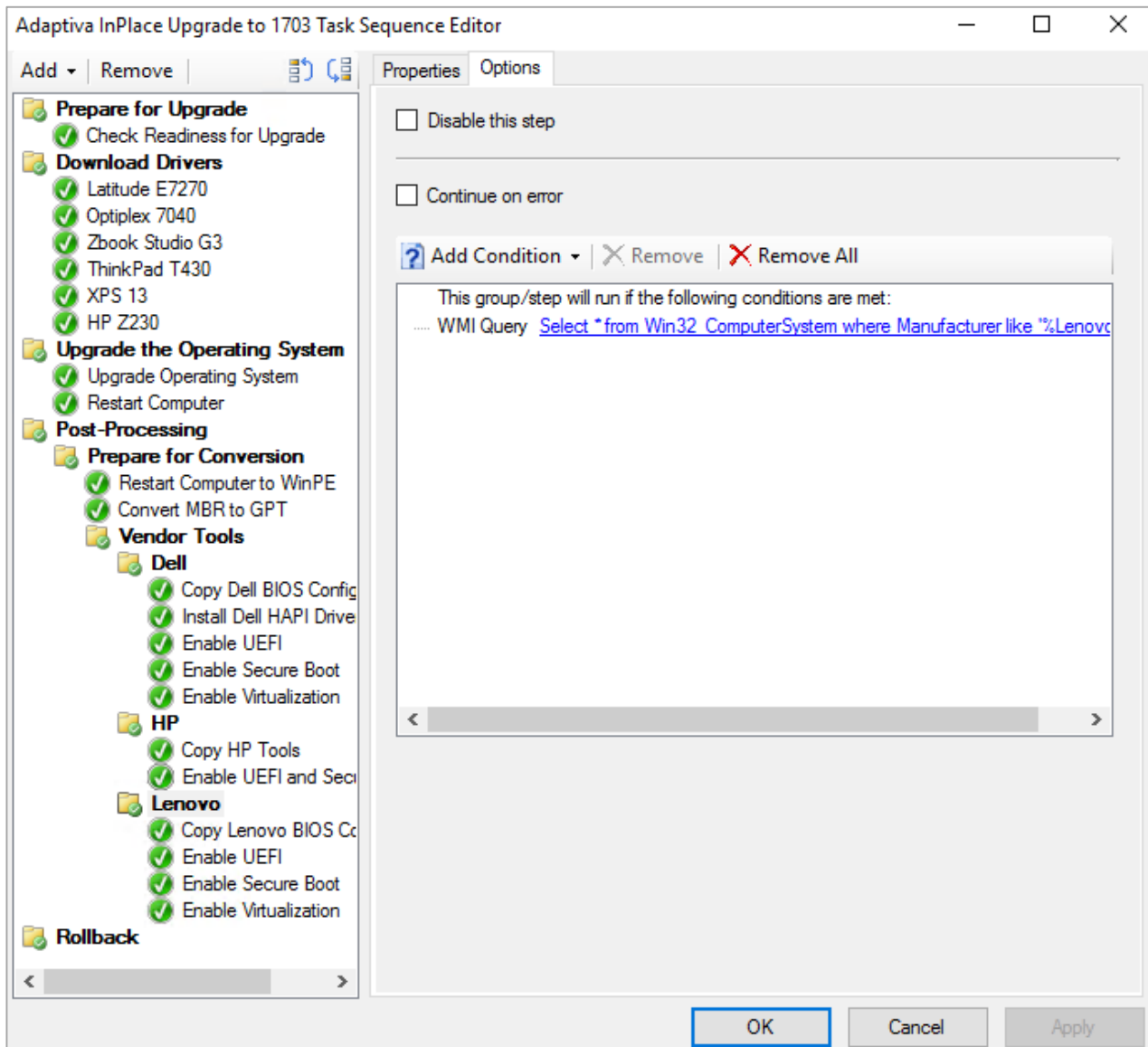


- ii. Create the following **two** WMI Queries under the If Statement:
 1. Select * from Win32_ComputerSystem where Manufacturer like '%hp%'
 2. Select * from Win32_ComputerSystem where Manufacturer like '%hewlett-packard%'
- iii. Create a Run Command Line step named Copy HP Tools
 1. Command Line: `%comspec% /c xcopy .\HP*.* %systemdrive%\BIOS\toUEFI\HP /s /y /i`
 2. Package: BIOS UEFI Vendor Tools
- iv. Create a Run Command Line step named Enable UEFI and Secure Boot
 1. Command Line: `%systemdrive%\BIOS\toUEFI\HP\%processor_architecture%\BiosConfigUtility.exe /set:%systemdrive%\BIOS\toUEFI\HP\EnableUEFI-SecBoot.txt /l /verbose`
 2. Do not assign a package

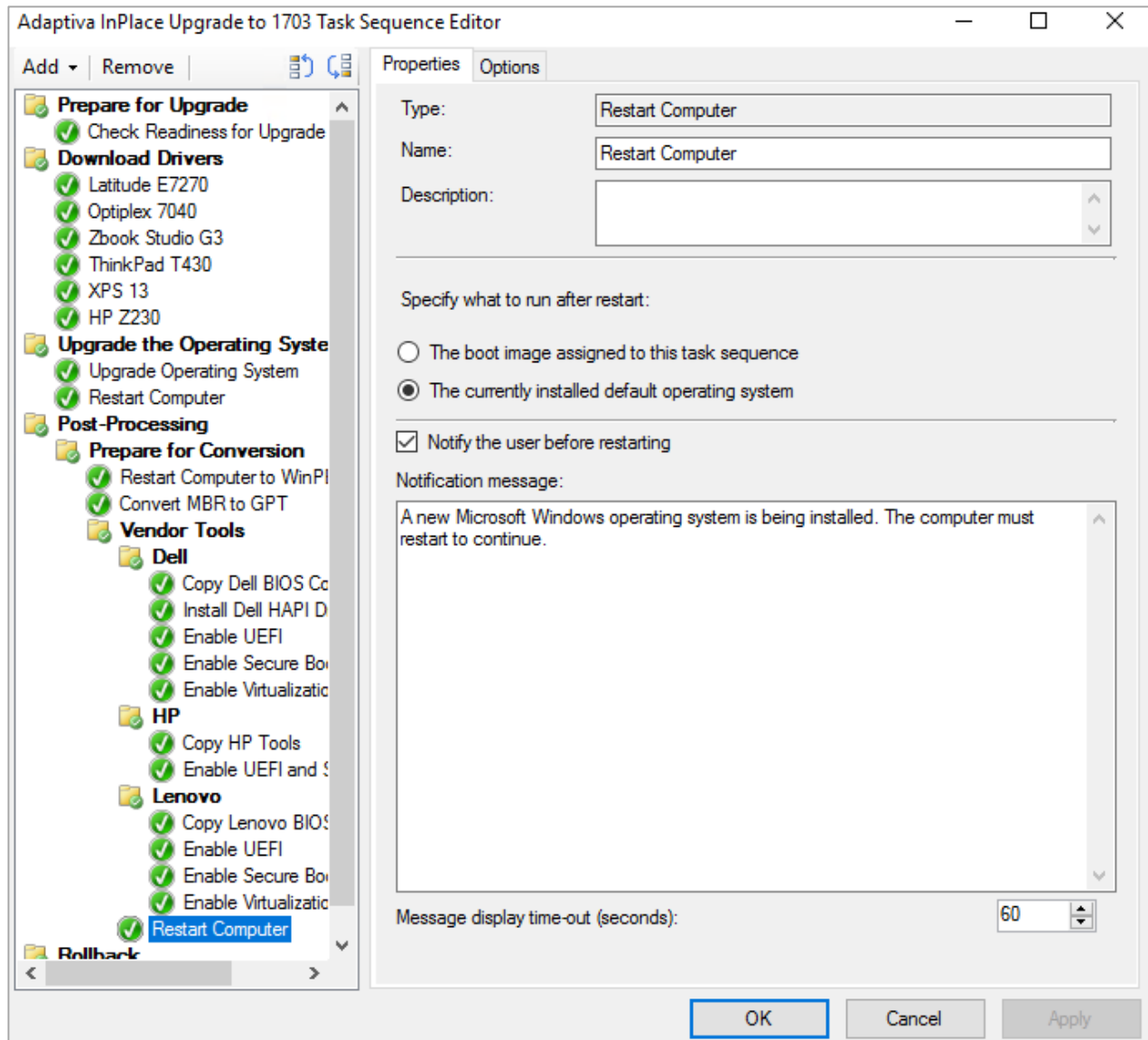


- c. Create a subgroup of Vendor Tools called Lenovo
 - i. In the Options tab, create the following WMI Query: Select * from Win32_ComputerSystem where Manufacturer like '%Lenovo%'
 - ii. Create a Run Command Line step named Copy Lenovo BIOS Config Tools
 1. Command Line: `%comspec% /c xcopy .\Lenovo*. * %systemdrive%\BIOSToUEFI\Lenovo /s /y /i`
 2. Package: BIOS UEFI Vendor Tools
 - iii. Create a Run Command Line step named Enable UEFI
 1. Command Line: `cscript.exe %systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs`
 2. Do not assign a package
 - iv. Create a Run Command Line step named Enable Secure Boot
 1. Command Line: `cscript.exe %systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs SecureBoot Enable`
 2. Do not assign a package
 - v. Create a Run Command Line step named Enable Virtualization

1. Command Line: `cscript.exe`
`%systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs`
`VirtualizationTechnology Enable`
2. Do not assign a package



18. Create a Restart Computer action and have it reboot to the **Operating System**

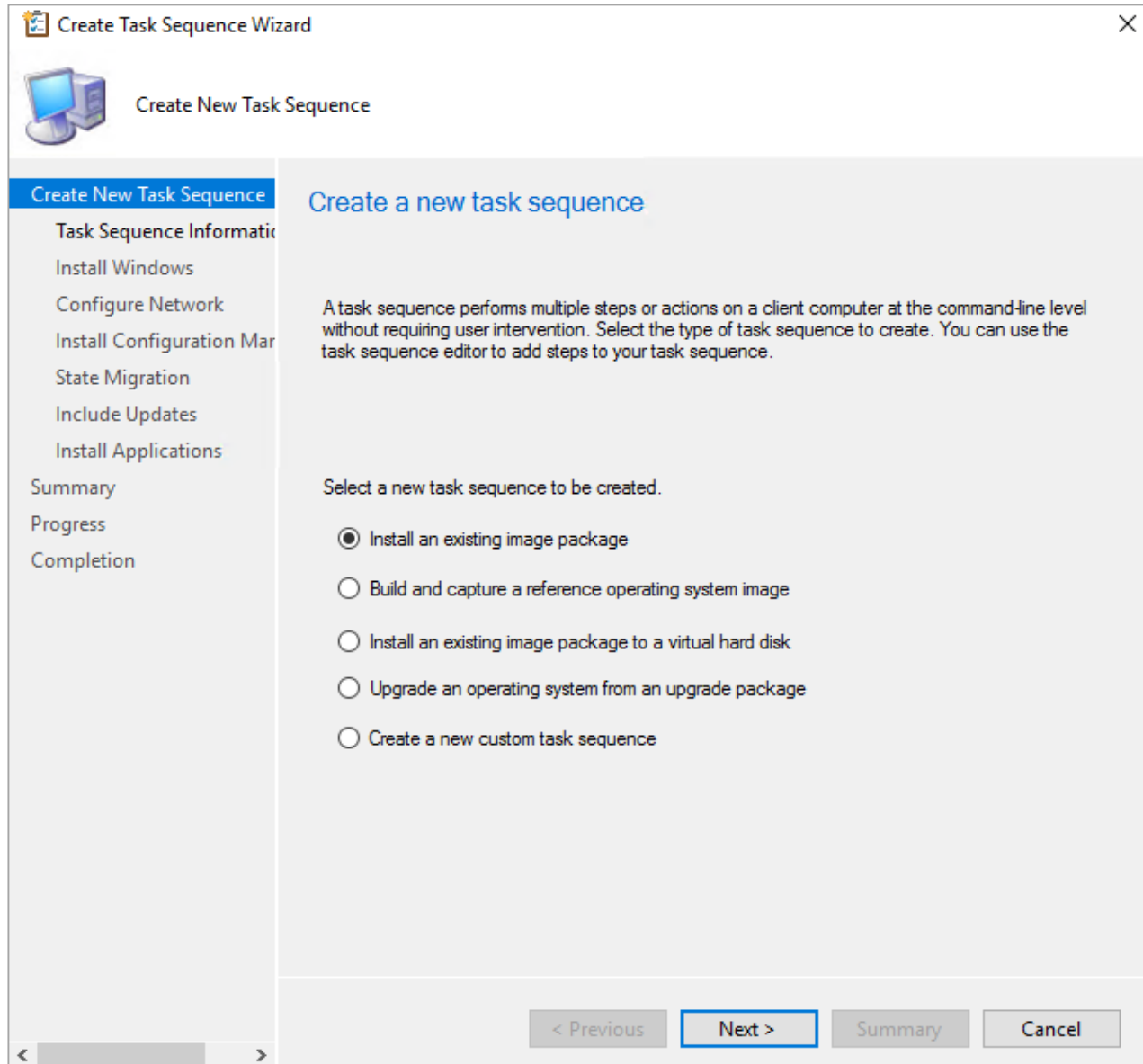


19. Click Ok to close the Task Sequence Editor
20. Deploy the Task Sequence to the device collection that hosts the PCs that are candidates to upgrade

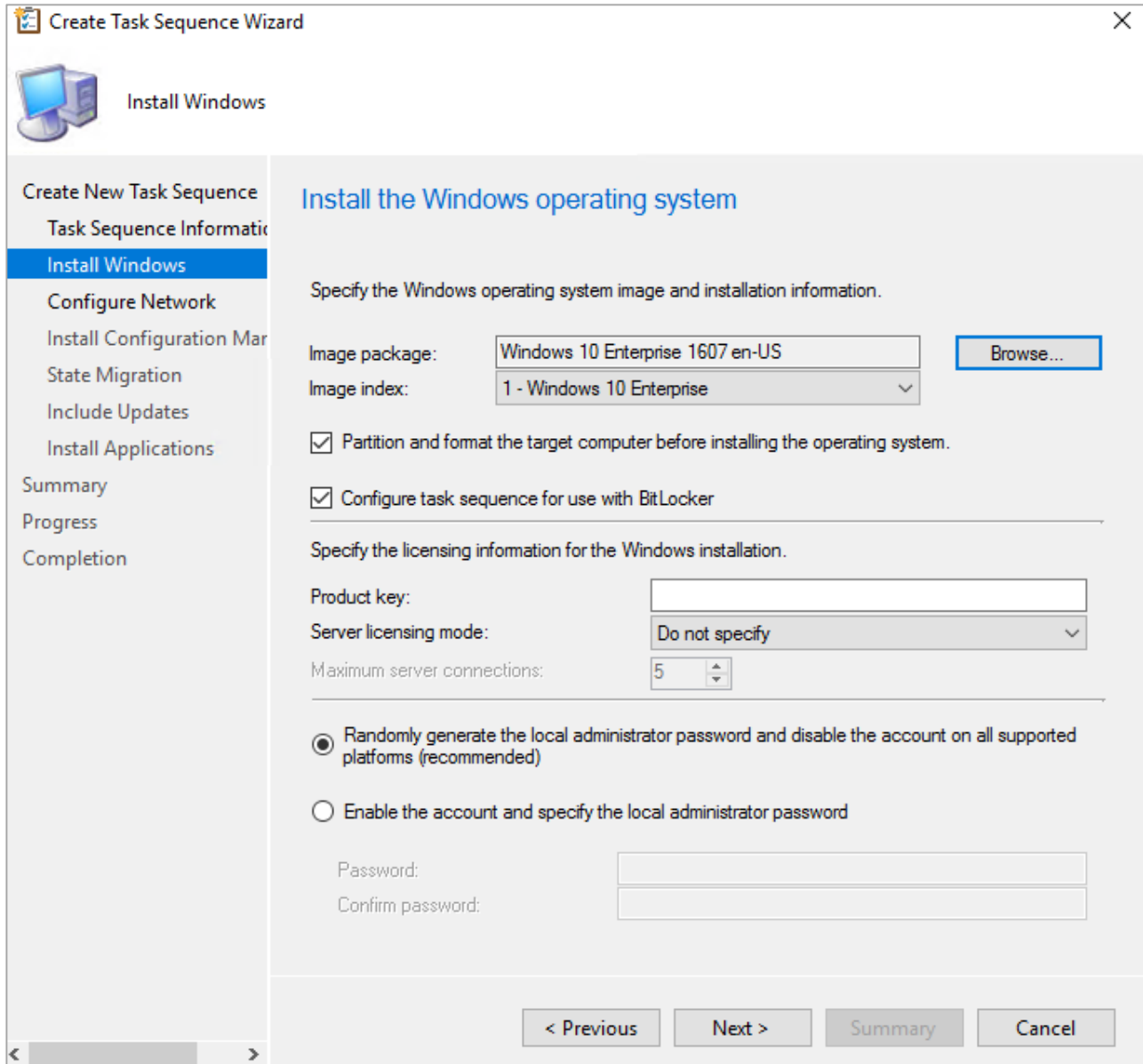
Refresh/Replace/Bare Metal

This Task Sequence is designed for a PC replace/refresh scenario. If you would like to use the User State Migration Tool (USMT), please have it gather the data at the start of the sequence and store it elsewhere on the network as the disk will get formatted several times during this process.

1. In **\Software Library\Overview\Operating Systems\Task Sequences**, click Create Task Sequence on the ribbon
2. In the Create Task Sequence Wizard, pick Install an existing image package



3. In the Task Sequence Information step, give the sequence a name, and assign a boot image created with Windows ADK 1703
4. In the Install Windows step, choose the image package you created for Windows 10 1703 and assign a product key, set your BitLocker preferences, and set the desired properties for the local administrator account

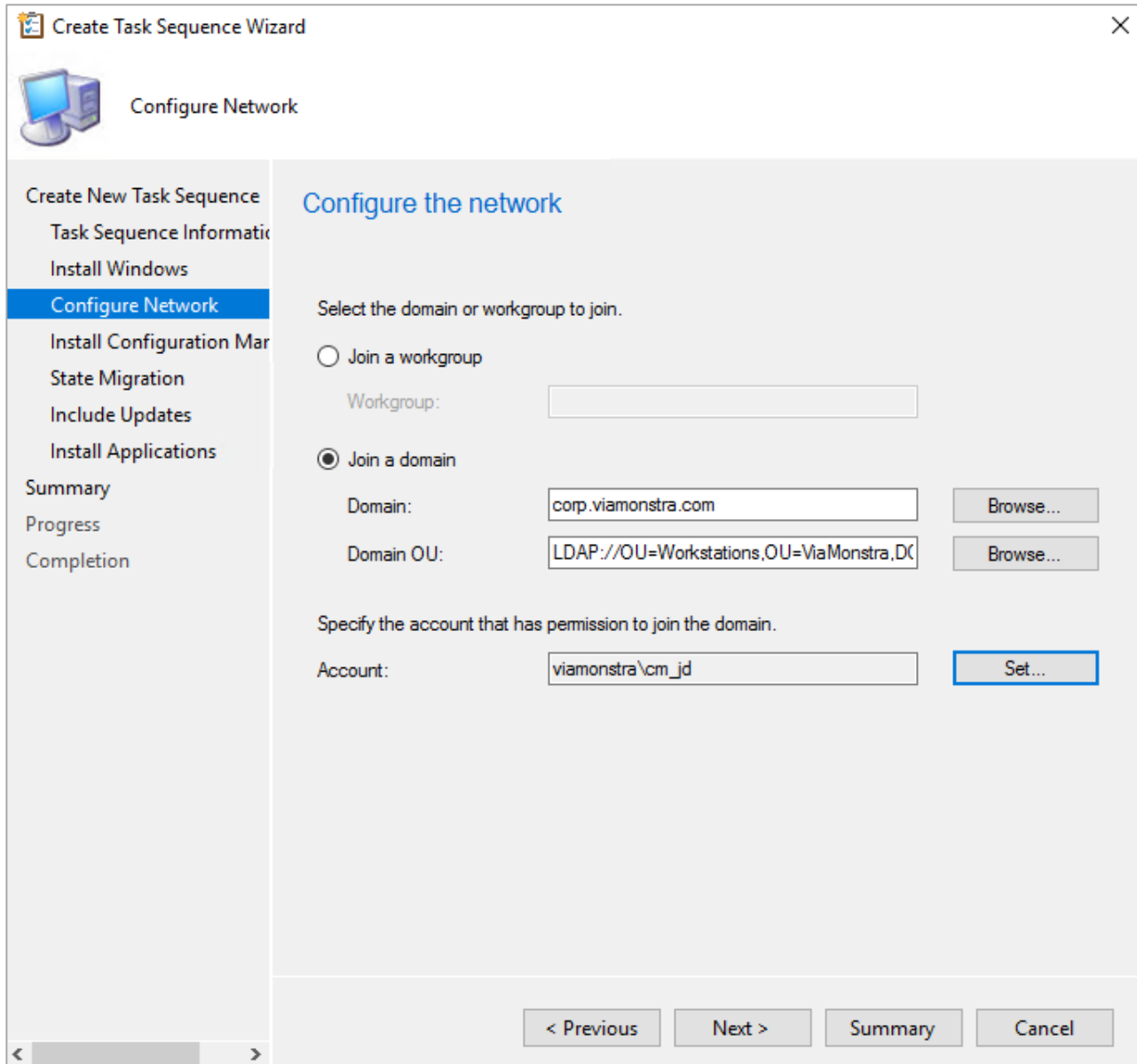


The screenshot shows the 'Create Task Sequence Wizard' window, specifically the 'Install Windows' step. The left sidebar contains the following navigation options: 'Create New Task Sequence', 'Task Sequence Information', 'Install Windows' (selected), 'Configure Network', 'Install Configuration Manager', 'State Migration', 'Include Updates', 'Install Applications', 'Summary', 'Progress', and 'Completion'. The main area is titled 'Install the Windows operating system' and contains the following fields and options:

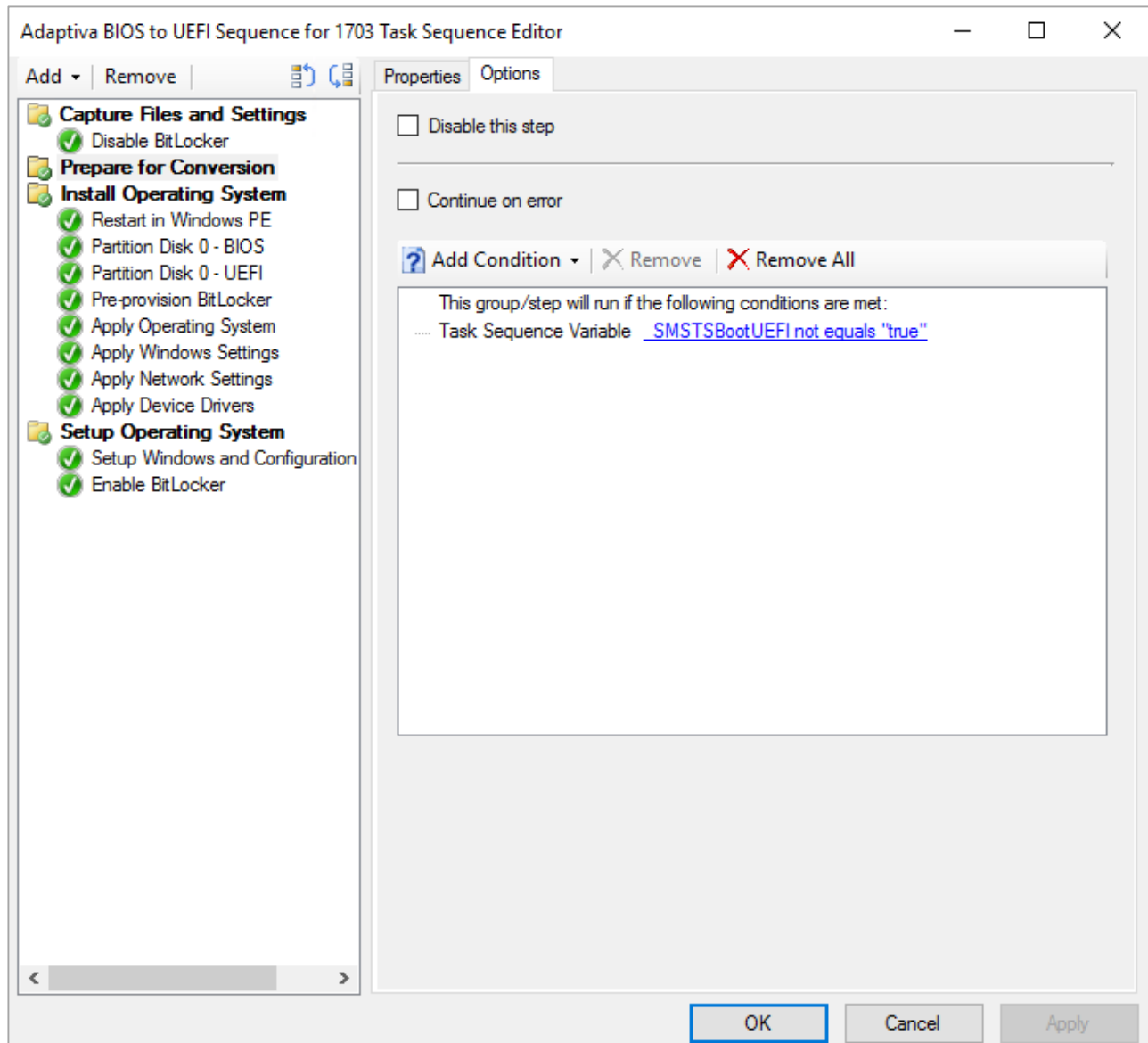
- Image package:** A text box containing 'Windows 10 Enterprise 1607 en-US' and a 'Browse...' button.
- Image index:** A dropdown menu showing '1 - Windows 10 Enterprise'.
- ☒ Partition and format the target computer before installing the operating system.
- ☒ Configure task sequence for use with BitLocker.
- Specify the licensing information for the Windows installation.**
 - Product key:** An empty text box.
 - Server licensing mode:** A dropdown menu showing 'Do not specify'.
 - Maximum server connections:** A spinner box set to '5'.
- ☒ Randomly generate the local administrator password and disable the account on all supported platforms (recommended).
- ☐ Enable the account and specify the local administrator password.
 - Password:** An empty text box.
 - Confirm password:** An empty text box.

At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

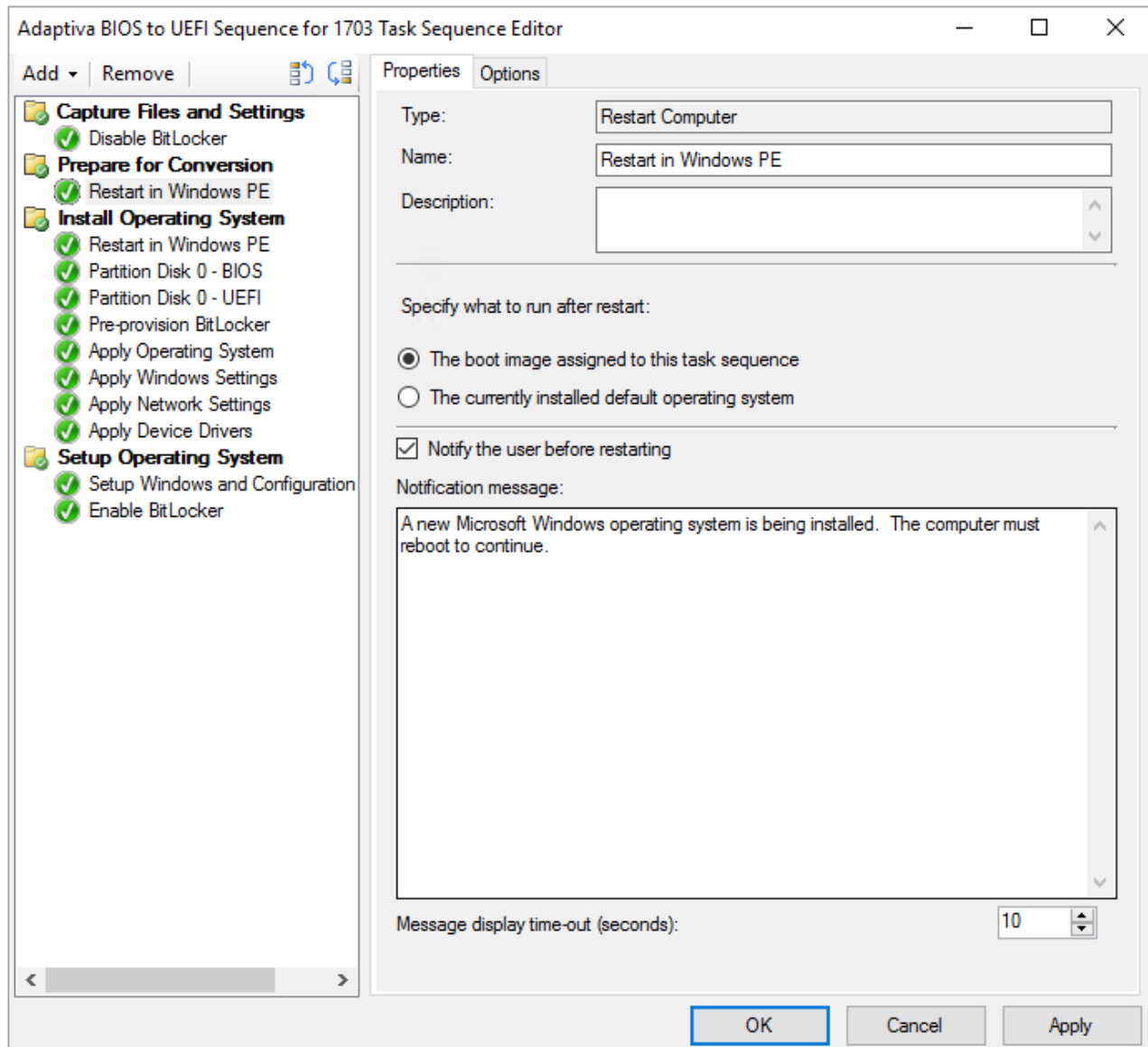
5. In Configure Network, input the information required for joining a PC to your domain (while it is possible to use this sequence for a workgroup deployment, it is not covered in this document)



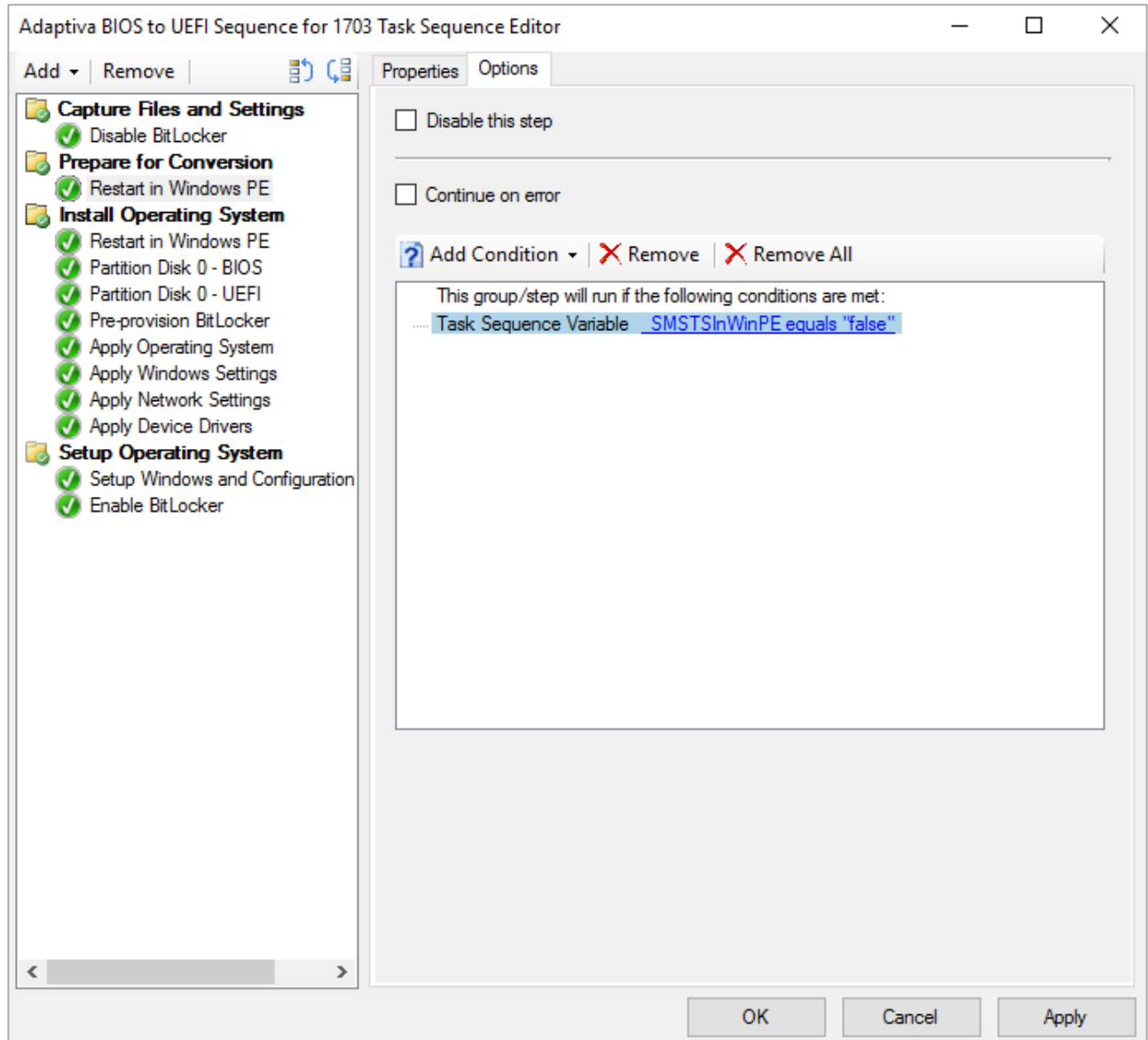
6. If you plan to capture and later restore any user or machine settings, install updates, or install applications configure those steps, otherwise click next through the Wizard
7. Above the Install Operating System Group, create a Group called Prepare for Conversion and set the following Task Sequence Variable: **`_SMSTSBootUEFI not equals true`**



8. Create a Restart Computer step and rename it to Restart in Windows PE
 - a. Use the boot image assigned to the sequence
 - b. Set any user notification if necessary

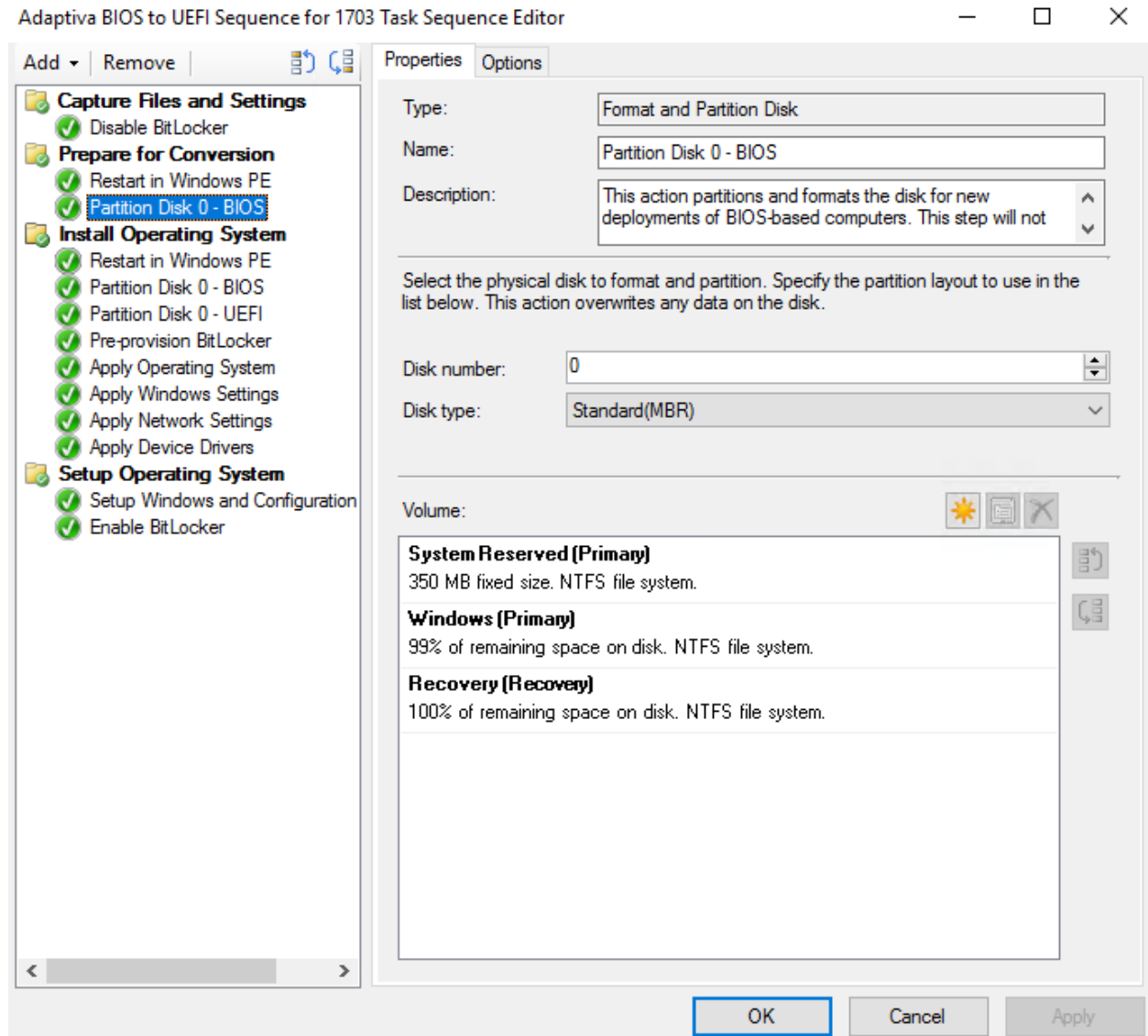


- c. Set a Task Sequence Variable: **`_SMSTSInWinPE` equals false**



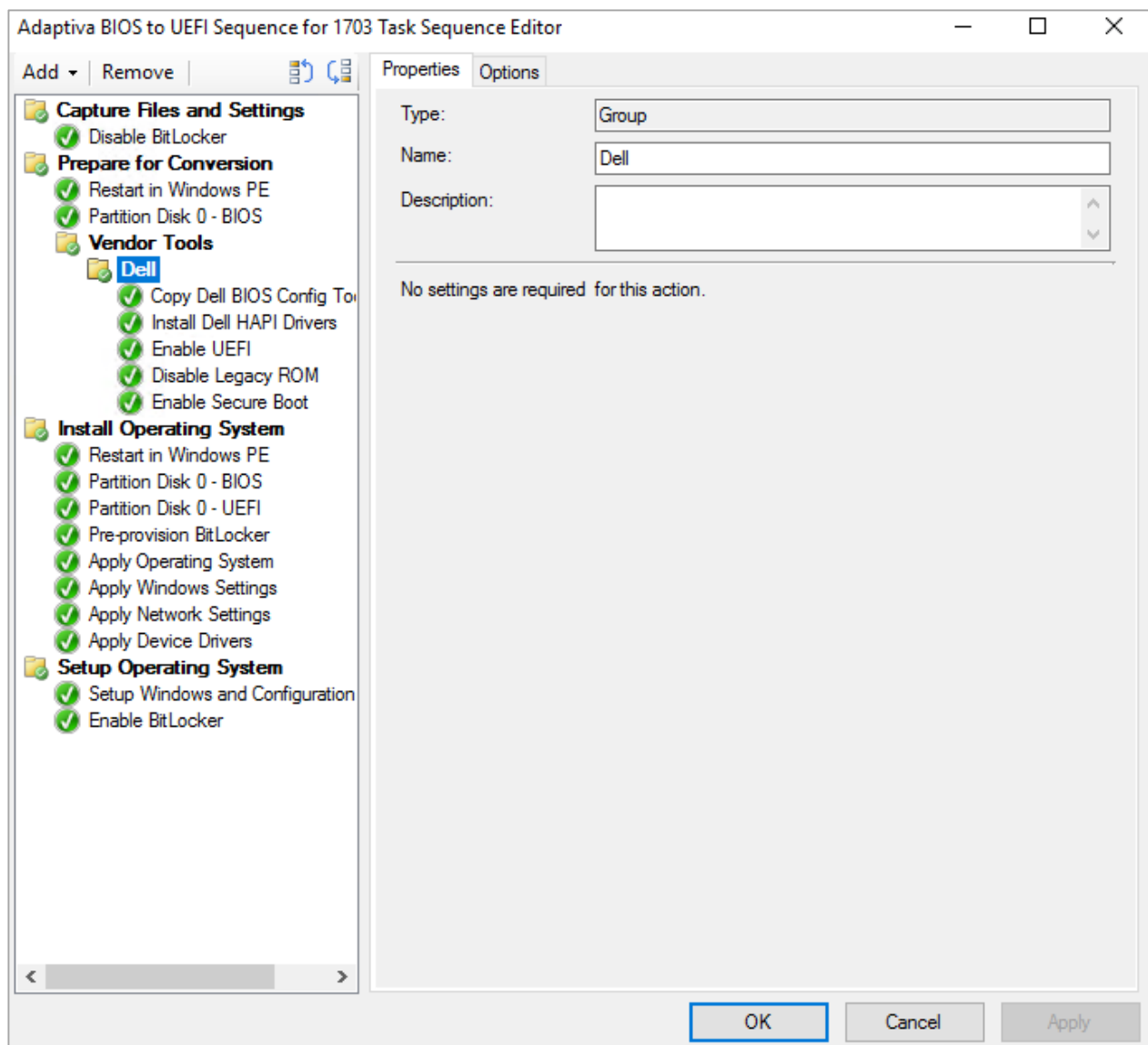
- Copy the Partition Disk 0 -BIOS step found in the Install Operating System step to the Prepare for Conversion Group to run after the computer reboots to WinPE

This step is necessary to copy the Vendor Tools package you created in the event the disk is not already formatted (for example, in a bare metal deployment)



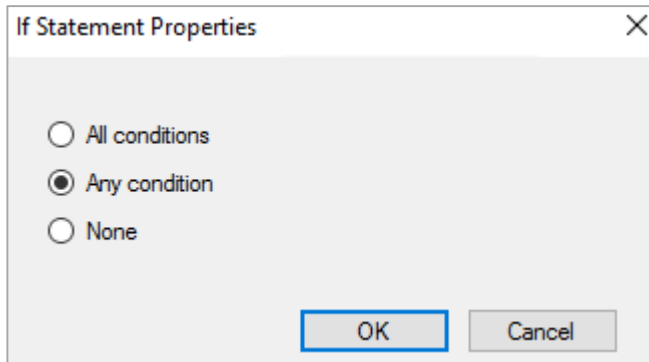
10. Create a new Group called Vendor Tools
 - a. Create a subgroup of Vendor Tools called Dell
 - i. In the Options tab, create the following WMI Query: Select * from Win32_ComputerSystem where Manufacturer like '%DELL%'
 - ii. Create a Run Command Line action named Copy Dell BIOS Config Tools
 1. Command Line: %comspec% /c xcopy .\DELL*.* %systemdrive%\BIOSToUEFI\DELL /s /y /i
 2. Package: BIOS to UEFI Vendor Tools package
 - iii. Create a Run Command Line action named Install Dell HAPI Drivers
 1. Command Line: %comspec% /c %systemdrive%\BIOSToUEFI\DELL\%processor_architecture%\HAPI\HAPIInstall.bat
 2. Do not assign a package
 - iv. Create a Run Command Line action named Enable UEFI

1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe bootorder --activebootlist=uefi
2. Do not assign a package
- v. Create a Run Command Line action named Enable Secure Boot
 1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe --secureboot=enable
 2. Do not assign a package
- vi. Create a Run Command Line action named Enable Virtualization
 1. Command Line: %comspec% /c
%systemdrive%\BIOS\toUEFI\DELL\%processor_architecture%\cct
k.exe --virtualization=enable
 2. Do not assign a package

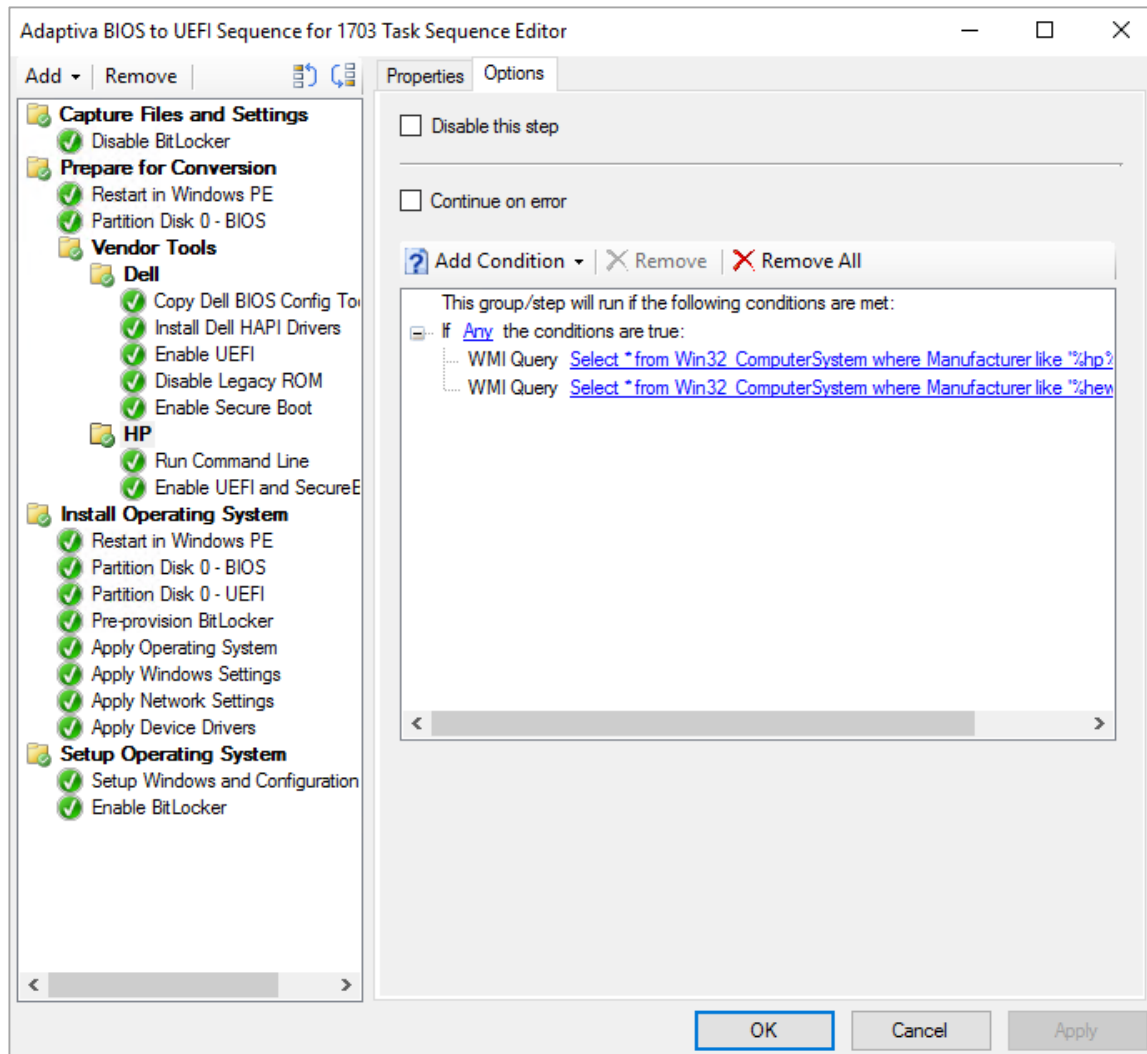


- b. Create a subgroup of Vendor Tools called HP

- i. In the Options tab, set the following condition:
 1. If Statement
 2. If **ANY** conditions are true

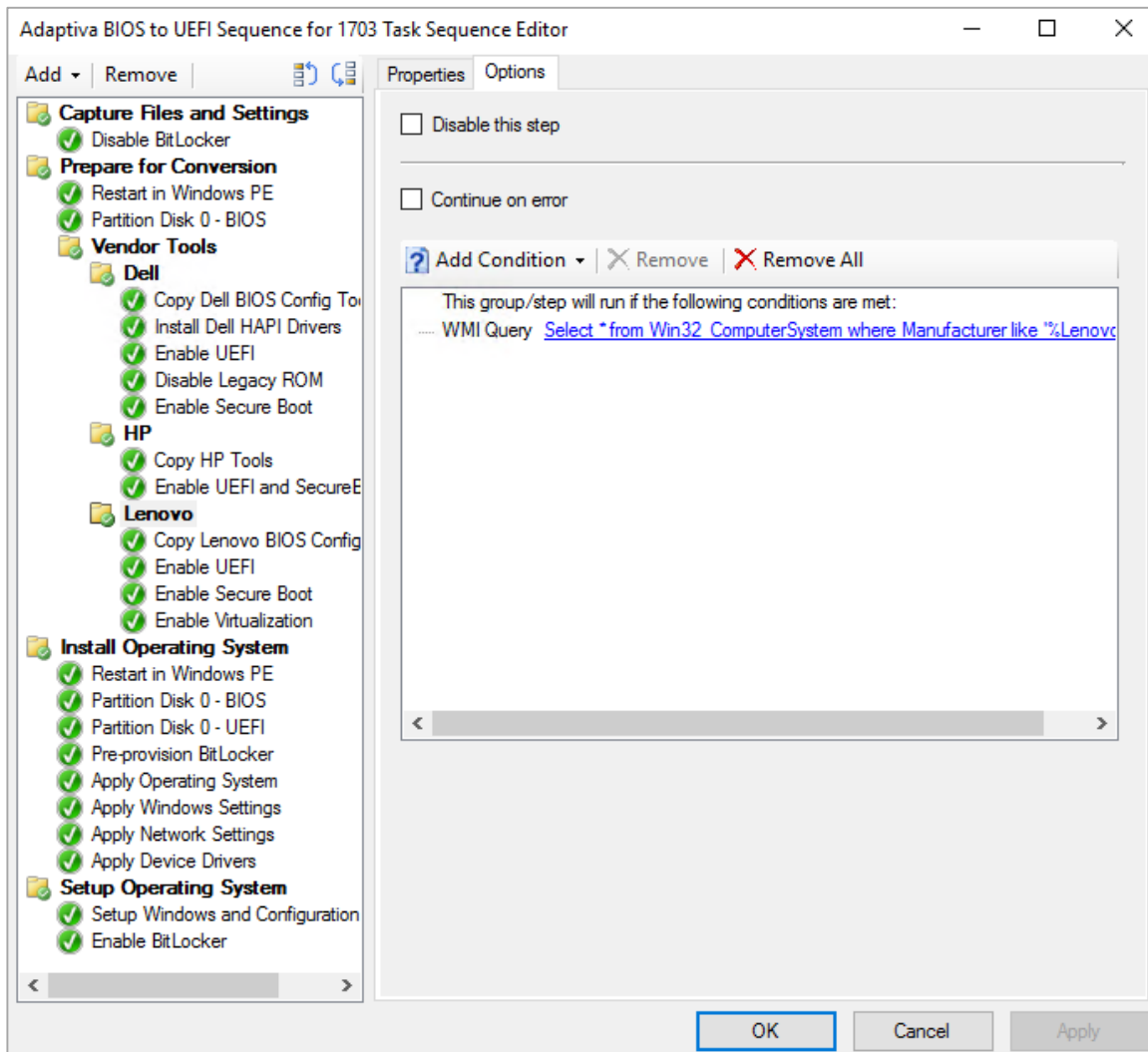


- ii. create the following **two** WMI Queries under the If Statement:
 1. Select * from Win32_ComputerSystem where Manufacturer like '%hp%'
 2. Select * from Win32_ComputerSystem where Manufacturer like '%hewlett-packard%'
- iii. Create a Run Command Line step named Copy HP Tools
 1. Command Line: `%comspec% /c xcopy .\HP*.* %systemdrive%\BIOSStoUEFI\HP /s /y /i`
 2. Package: BIOS UEFI Vendor Tools
- iv. Create a Run Command Line step named Enable UEFI and Secure Boot
 1. Command Line: `%systemdrive%\BIOSStoUEFI\HP\%processor_architecture%\BiosConfigUtility.exe /set:%systemdrive%\BIOSStoUEFI\HP\EnableUEFI-SecBoot.txt /1 /verbose`
 2. Do not assign a package



- c. Create a subgroup of Vendor Tools called Lenovo
 - i. In the Options tab, create the following WMI Query: Select * from Win32_ComputerSystem where Manufacturer like '%Lenovo%'
 - ii. Create a Run Command Line step named Copy Lenovo BIOS Config Tools
 1. Command Line: `%comspec% /c xcopy .\Lenovo*,* %systemdrive%\BIOSToUEFI\Lenovo /s /y /i`
 2. Package: BIOS UEFI Vendor Tools
 - iii. Create a Run Command Line step named Enable UEFI
 1. Command Line: `cscript.exe %systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs`
 2. Do not assign a package
 - iv. Create a Run Command Line step named Enable Secure Boot
 1. Command Line: `cscript.exe %systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs SecureBoot Enable`
 2. Do not assign a package
 - v. Create a Run Command Line step named Enable Virtualization

1. Command Line: `cscript.exe`
`%systemdrive%\BIOSToUEFI\Lenovo\SetConfig.vbs`
`VirtualizationTechnology Enable`
2. Do not assign a package



11. Create a Format and Partition Disk Step with two partitions
 - a. Partition 1
 - i. Type: Primary
 - ii. Size: 600 MB (minimum size for ADK 1703)
 - iii. File System Type: FAT32
 - iv. Variable: **TSUEFIDrive**

Partition Properties

Partition name:

Partition options

Partition type:

☐ Use a percentage of remaining free space

Size (%):

☒ Use specific size

Size:

☐ Do not assign a drive letter to this partition

Formatting options

File system:

☒ Quick format

Advanced options

Configuration Manager will automatically assign the next available drive letter to this partition. To save this drive letter as a task sequence variable, enter the name of the variable here.

Variable:

- b. Partition 2
 - i. Type: Primary
 - ii. Size: 100% of remaining free space
 - iii. File System Type: NTFS

Partition Properties

✕

Partition name:

Partition options

Partition type:

Primary

▼

☒ Use a percentage of remaining free space

Size (%):

100

▲▼

☐ Use specific size

Size:

1

▲▼

MB

▼

☐ Do not assign a drive letter to this partition

Formatting options

File system:

NTFS

▼

☒ Quick format

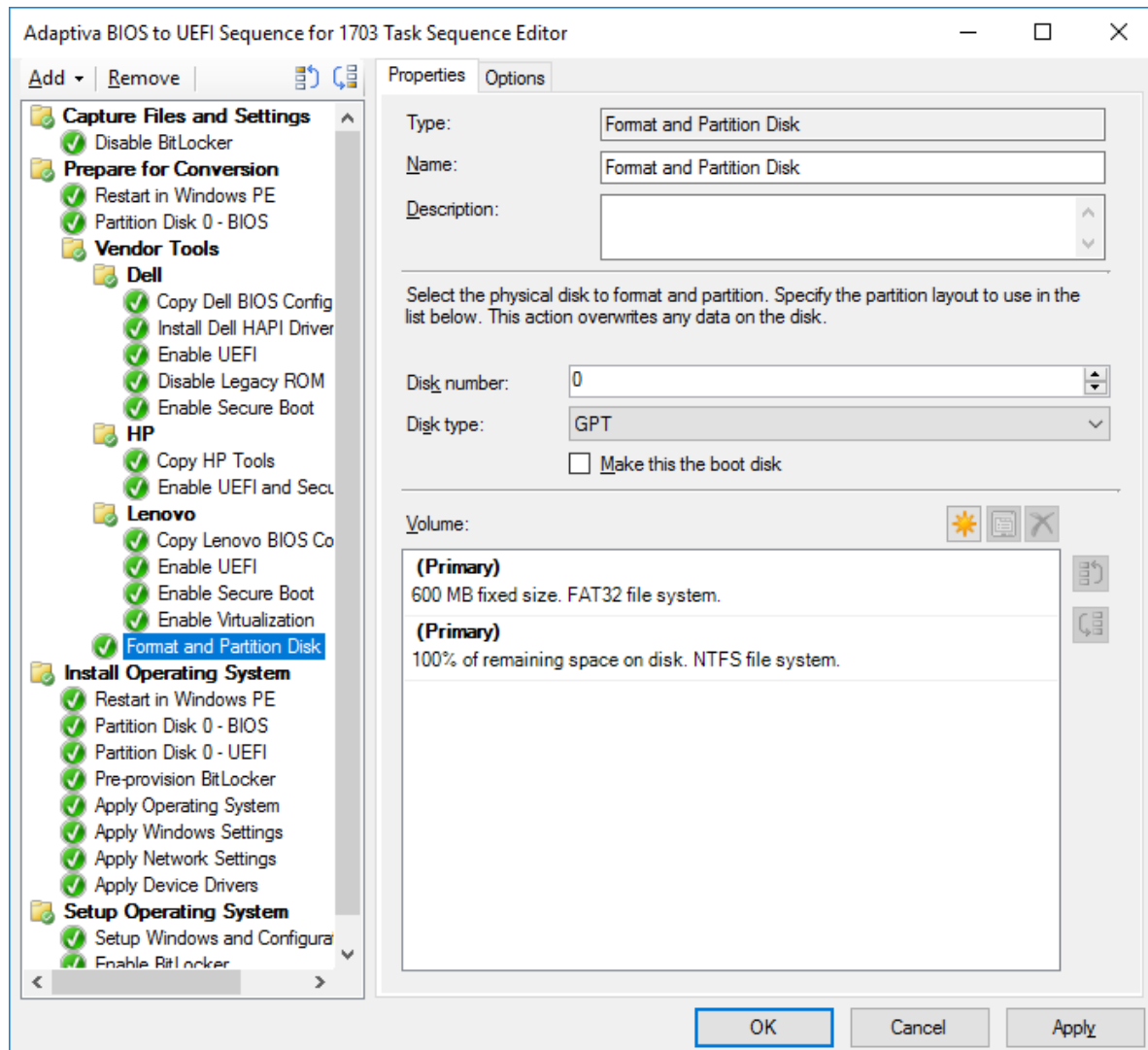
Advanced options

Configuration Manager will automatically assign the next available drive letter to this partition. To save this drive letter as a task sequence variable, enter the name of the variable here.

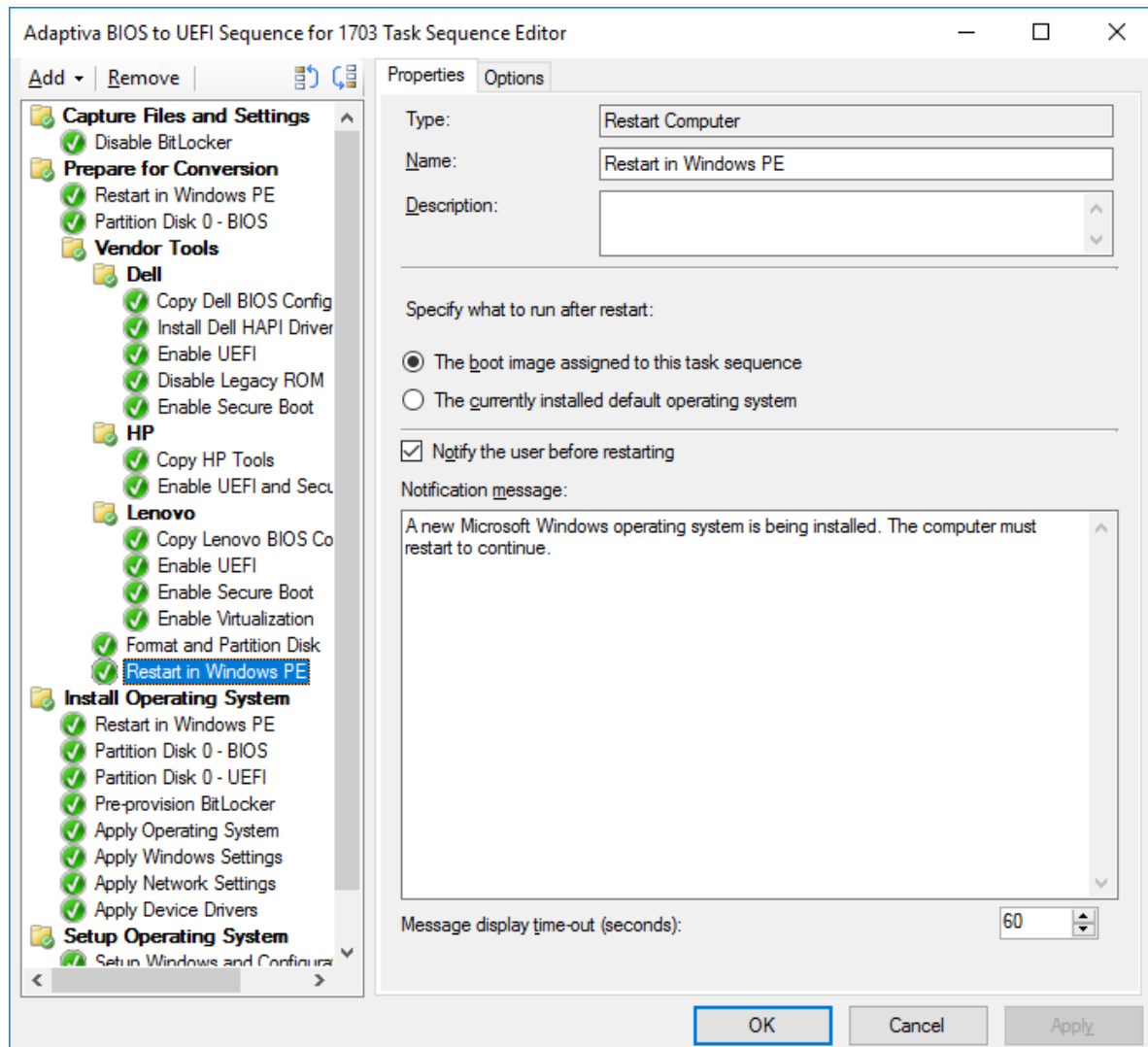
Variable:

OK

Cancel



12. Create a Restart Computer step and rename it to Restart in Windows PE
 - a. Use the boot image assigned to the sequence
 - b. Set any user notification if necessary
 - c. Do not assign a Task Sequence Variable



13. Click OK to close the Task Sequence Editor
14. Right click the Task Sequence and select Deploy to deploy the sequence