Microsoft® Configuration Manager

Dell Factory Integration

User Guide August 2023

Version 22H2

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Chapter 1

Boot and Factory Process Overview

Introduction to Config Mgr. BIF at Dell Factories

IMPORTANT NOTICE FOR PRESTAGE MEDIA USERS:
This document does not apply to Pre-staged media deployments or Connected Configuration. Dell Configuration Services can pre-load your Pre-staged or Stand-alone media on new system orders. Please contact your Configuration Services Project Manager for instructions on sending your Pre-staged media to Dell to begin your project setup.

This document focuses on integrating your task sequence execution for Boot in the factory (known in this document as BIF) projects.

BIF= Boot in Factory

Dell Configuration Services simplifies IT for Configuration Manager Administrators by enabling a single source provisioning solution for all deployment scenarios. By leveraging the Dell factory to execute an OSD, the Admin will save time and network resources previously allocated for image deployment tasks.

Admins can also leverage Configuration Manager to reduce the number of OS images your company must create and manage. Admins can detect the system's model type and distribute the appropriate hardware driver package, and software installs can be configured based on business rules. As a result, your IT department has fewer OS images to manage and more flexibility to deliver operating system, applications, updates, patches and security fixes to devices in a single distribution.

Configuration Manager's support for offline or removable media, in-place migrations, OEM and PXE gives your company the ability to retain high levels of automation across any deployment scenario.

The use of conditional statements allows you to manage a single task sequence for use across various deployment scenarios.

Intended users of this guide are Dell customers:

IT network administrators or managers who are responsible for Configuration Manager and OSD activities

Requirement	Administrators must have experience creating and validating production stand-alone media builds from Configuration Manager OSD Task Sequences

This guide explains how to leverage Dell Configuration Services with Config Mgr. to deploy a customized operating system image to new Dell client systems while in the factory – saving you run-time on each new client deployment.

Dell Factory / Config Mgr. OSD Process Overview

Configuration Services Process Overview

Step 1: Modify your current task sequence to include Configuration Services requirements detailed in this document

Step 2: Create stand-alone media of your task sequence and send it to the Dell Configuration Services team

Step 3: Dell Image Services engineers will work with you to validate your Task Sequence modifications

Step 4: Dell Configuration Services team imports your stand-alone media for use in the factory on systems you order

Step 5: Your build is placed on systems you have ordered, and they are booted while in the factory to launch the build process

Step 6: When the factory portion of the build is complete, the systems are shipped directly to your end users

Step 7: The end user receives their system, connects it to your network and powers it on

Step 8: The build process continues with any steps that require network connectivity (e.g. joining domain) before allowing the user to logon

Configuration Requirements

Creating a stand-alone media build should be a simple process. Review the Microsoft document for additional information.

Create stand-alone media - Configuration Manager | Microsoft Learn

Per Microsoft, the following Configuration Manager Task Sequence steps are not supported when using stand-alone media

- Auto Apply Drivers
- Dynamic Software installs via the install software task
- Install Software Updates
- Install software prior to an operating system deployment

Building your Reference OS WIM

We do recommend you use the install.wim that is included with the Microsoft windows installation ISO file under the sources folder. If you choose to recapture the reference WIM please follow the following guide lines. When building the reference OS WIM intended for factory deployment, Dell recommends the use of Hyper-V as the best option as there are no drivers that are needed for it. You can use other virtual machine technology just make sure to remove all virtual driver packs or tool installs before re-capture. Do not install drivers into the reference OS WIM. Do not build the reference WIM on physical hardware. The reference OS WIM should be free of installed drivers and Antivirus Software.

Apply Driver Package

Use the Task Sequence Step **Apply Driver Package** instead of **Auto Apply Drivers**. The Auto Apply drivers task is **not** supported in a stand-alone media scenario, as the system does not have access to your ECM site server. A Dell OSD best practice is to use the **Dell OSD Driver Packs** with WMI queries (based on model) for task sequence steps which apply driver packages.

- The **Apply Driver Package** task sequence step downloads all the drivers in the driver package and installs them on the Windows operating system. This step is necessary to install boot-critical drivers on pre-Vista operating systems.
- The **Apply Driver Package** task sequence step makes all device drivers in a driver package available for use by Windows. This step can be added to a task sequence between the "Apply Operating System" and the "Setup Windows and Config Mgr." task sequence steps in order to make the device drivers in the driver package available to Windows after the OS bits have been distributed to the client's hard drive.
- You should put similar device drivers into a driver package and distribute them to the appropriate distribution points so that Config Mgr. client computers can install them.

Install Software Updates

Install Software Updates Task Sequence step is **not** supported in a stand-alone media scenario, as the system does not have access to your Config Mgr. site.

- Install all security updates into your base .WIM using Config Mgr. Build and Capture Process.
- Apply the stand-alone Media Build to an offline PC and validate the build process
- **Important:** Validate your task sequence before adding the steps for Dell Configuration Services Process. After successfully completing the stand-alone media build, validate that the steps you modified are working properly, and such as **Apply Driver Package** and other custom steps.
- For more detail on this process, refer to the *Configure Stand-alone Media Build*, step. Test the Stand-alone Media Build to Simulate Dell Configuration Services

Applications VS Packages

It is best practice and Dells recommendation that you only use packages for deploying software in your offline task sequences. This is the most stable and accurate way of installing software. But we understand that you might have to use applications due to company polices below are some things to keep in mind when deploying applications in task sequences.

Tips for deploying applications in offline media.

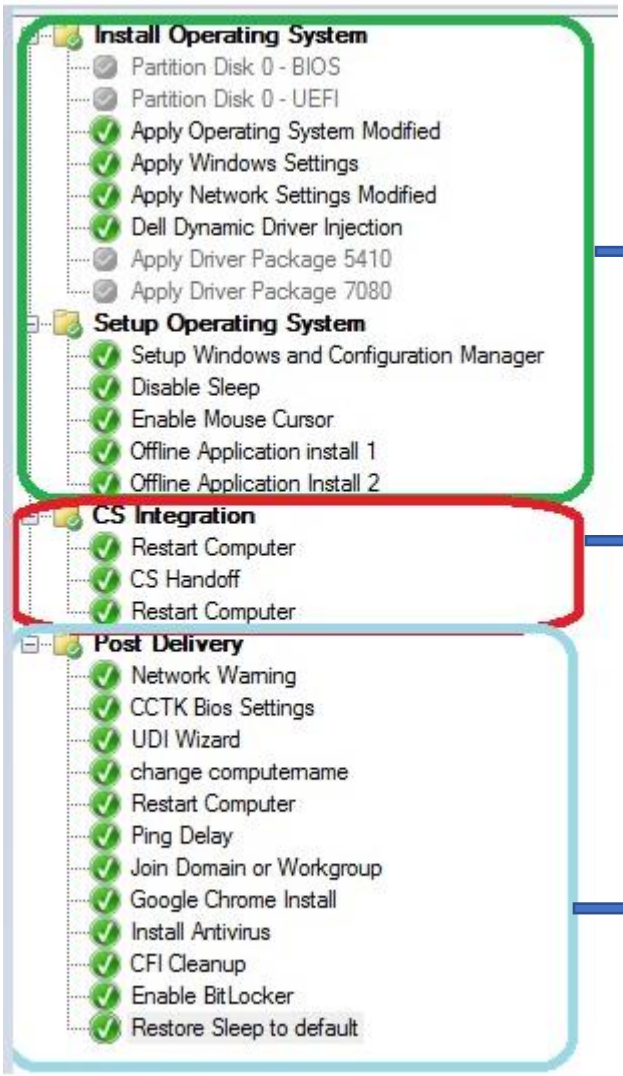
- Application Dependencies are not supported for offline media.
  https://docs.microsoft.com/en-us/troubleshoot/mem/configmgr/troubleshoot-install-application-step

- Make sure your ECM Client package is up to date with the version of ECM that is installed.
- Don't chain application installs in the same task but create a separate task for each install.
- Make sure you are executing MSI files from the application task. Applications that execute Power shell scripts, bat files or VB scripts will some time continue to the next task without waiting for the current task to complete.
- Make sure your client cache size is large enough to fit the application installs you are installing.
- Note Upgrading your ECM site to a newer version can cause application packages to fail in older versions of offline media.
- Config Manager Client needs to be Fully functional before running Application tasks during Post-delivery. Client install must be working flawlessly

Note: the IMS engineer will conduct task sequence testing to verify the task sequence will not fail in the factory and cause production issues. We are not able to test all functionalities of Application installations. We have seen Applications that run-in Post-Delivery work at the customer site when they run in their standard task sequence. Then work fine when the IMS engineer tests them to only fail when the task sequence runs on a new machine via the factory process at the customers site.
It is very important to test the Offline media at your location using the offline media testing procedures with the NIC'S off in the factory portion and on when testing the Post Delivery section to get a true feel of how the application will install during the complete factory process. It is best to use packages as they are the most stable option available.

Task Sequence Break Down

Standard Config Manager Task Sequence Divided to run in the Dell Factory and on your Local network.



The Green Area is the part of the task sequence that runs in the factory and is known as the Factory Section. The task sequence will run with the network cards disabled. And the partitions are created ahead of time. There can't be any prompts or user input during this section as it needs to run completely automated. Encryption needs to be turned off and security or Antivirus should not be active during this stage.

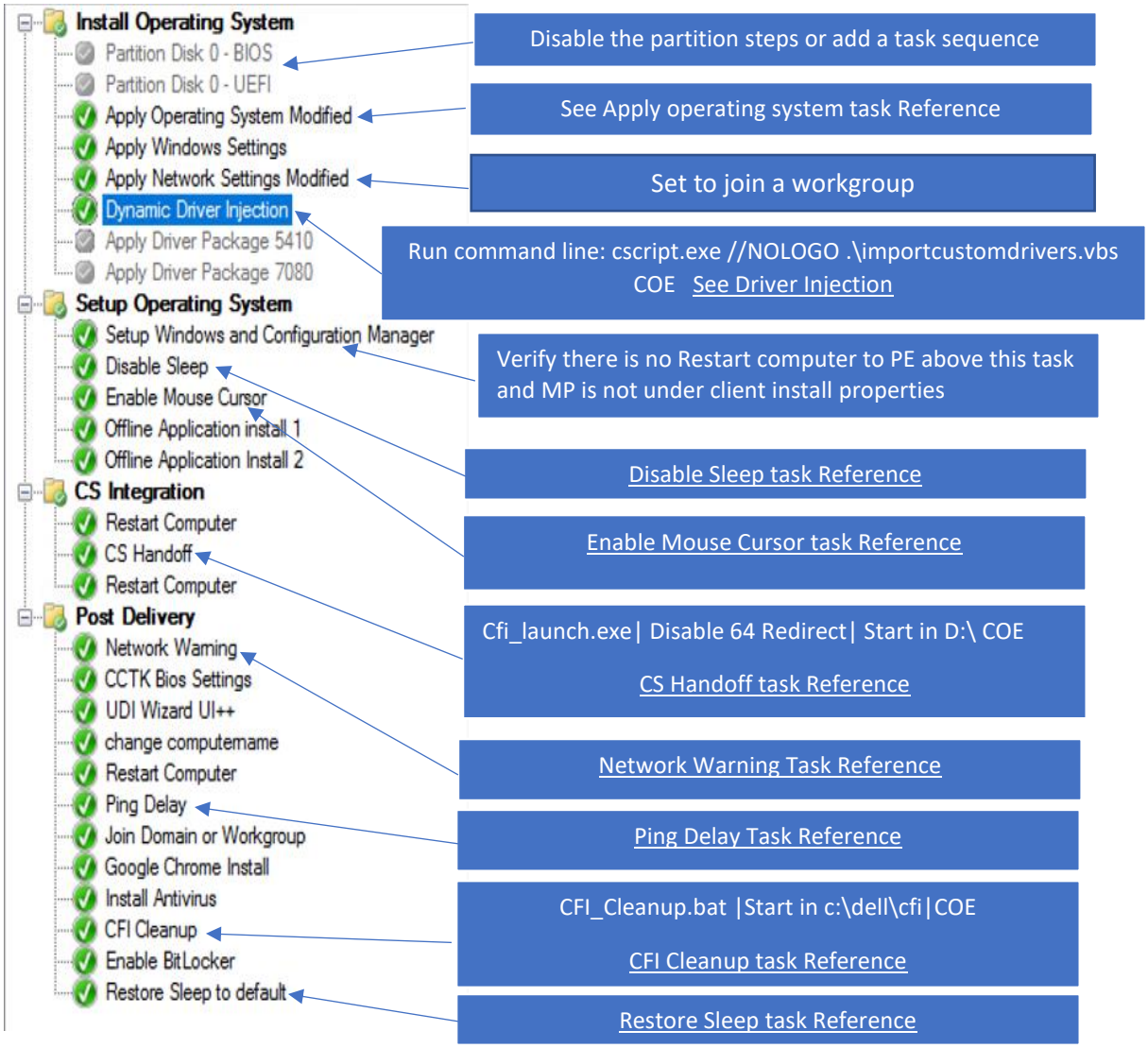
This is the section that will pause the task sequence in the factory, it enables the network cards, and shuts down the computer to ship it to you. Known as the Handoff Section

This section known as Post Delivery Section will run when you first turn on the system after receiving it from the Dell Factory. The Network cards will be enabled. You can install applications that require the network as well as Anti-Virus, Run BIOS Configuration scripts, Join the Domain, enable encryption like Bit locker, and prompts the users for Input if needed. The CFI Cleanup task will delete the offline media as well as factory files before the task sequence completes

Chapter 2

Boot and Factory Task Sequence Modifications.

Config Manager BIF OS Deployment Map



Note if you have MDT Integration then your task sequence will look different see the MDT/Config Manager MAP here MDT/Config Manager MAP

Dell Factory Enabled Config Mgr. OSD Map

This map illustrates what actions are required to enable your current OSD task sequence for Dell factory integration. You should be able to use this map as a quick reference when configuring your task sequence with the Dell factory process. Click the highlighted field to go to the detailed page for that task.

We recommend you copy your production task sequence and label the Copy Dell Factory. This way you can edit the factory task sequence without causing issues to the production task sequence. If rather use the production task sequence for both inhouse and factory imaging, you can use a Task sequence variable called CFI to control what tasks run in Factory or in house only. Example would be to set the Partition steps to CFI does not equal true and the Dell Driver injection step as an example to CFI=True. Then create the variable CFI=True on the Media that you upload to Dell this way the partition steps will only run in inhouse imaging but not from the media which is a dell factory requirement, and the Dell tasks will only run when executed from the dell media.

Dell Toolkit Package

The Dell Tool Kit Package is a group of scripts needed for the Dell Boot in factory process zipped in a easy to download package. You can extract this zip file to your config manager source folder and create a package with no program of its contents. There are steps in this guide that will refer to this package.

Download Toolkit Here

- Download and extract the cfitoolkit.zip posted on Dell's Tech Center to your package source directory.
- Create a new package in your Config Manager Environment. Link it to this source directory.
- Don't create a program.
- Push the package to the distribution point you will use to build the Offline media.

Note: We will refer to this package as Dell toolkit package in the document moving forward.

Dell Tool Kit Contents

Required for factory process to work correctly.

1. **importCustomDrivers.vbs –** File used for Factory Driver injection
2. **networkwarning.vbs-** script used to pause task sequence to remind operator to connect a network cable before proceeding.
3. **Power.bat-** Script used to disable modern sleep and set high performance power plans.
4. **Unattend.xml-** files used to pass disable wireless in OOBE.

Optional scripts to help automate your task sequence.

1. **Recovery.txt-** Disk Part script used to shrink c drive and create a WinRe partition.
2. **Setcnamest.vbs-** sets the OSDCOMPUTERNAME variable to the service tag of the system.
3. **Setcnametoinput.vbs-** prompts user for computer name and then changes the machine to match input.
4. **Setcnamevar.vbs-** script used in post-delivery to change the computer name on the system to what is in OSDCOMPUTERNAME variable.

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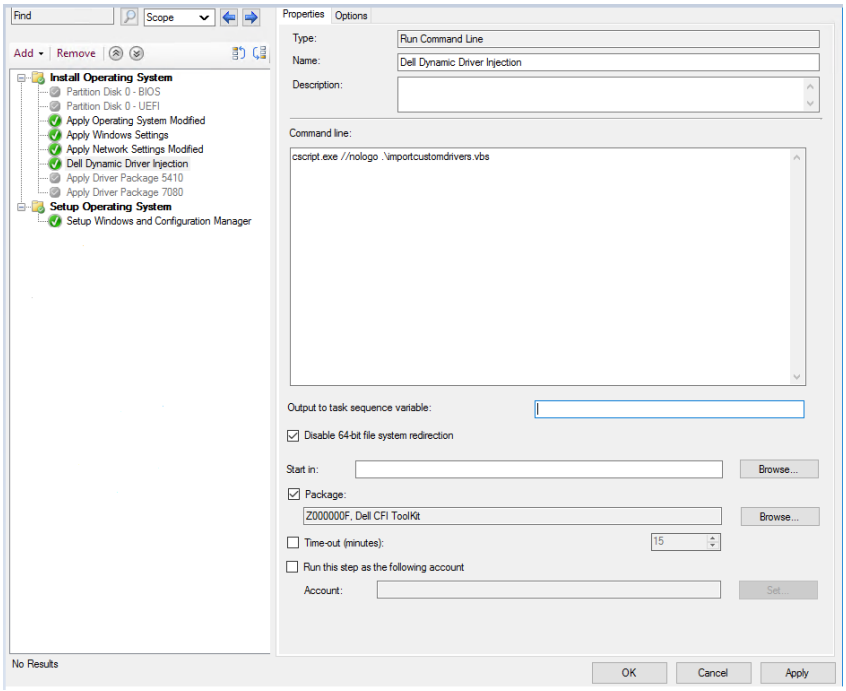
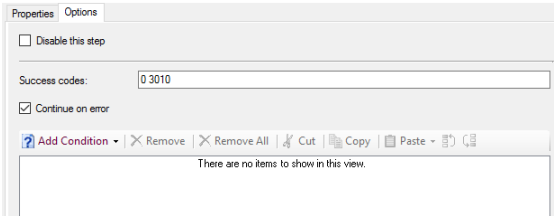
Factory Dynamic Driver Injection

Configuration services gives you the option to simplify both driver management and hardware transitions by dynamically injecting the latest factory approved Dell Family driver packs into your deployment while the task sequence is running in the factory. This script is included in the Dell CFI Tool Kit. You must disable all other driver installs if using this method.

Create a new Dynamic Driver Injection Task

1) The task must be placed right after the Apply Network Settings task.
2) At **Name**: Dell Dynamic Driver Injection
3) At **Command Line**: cscript.exe //nologo .\importcustomdrivers.vbs
4) **Disable 64-bit file system redirection:** Checked
5) **Package:** check this box and select the Dell Tool Kit package
6) **On Options tab:** Check continue-on-error





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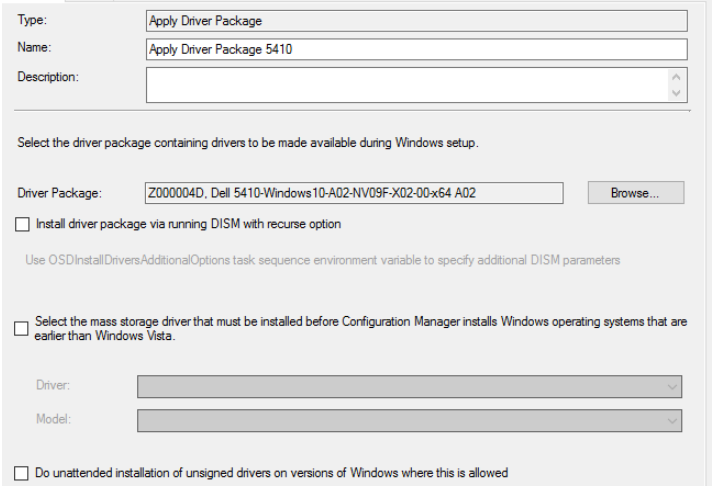
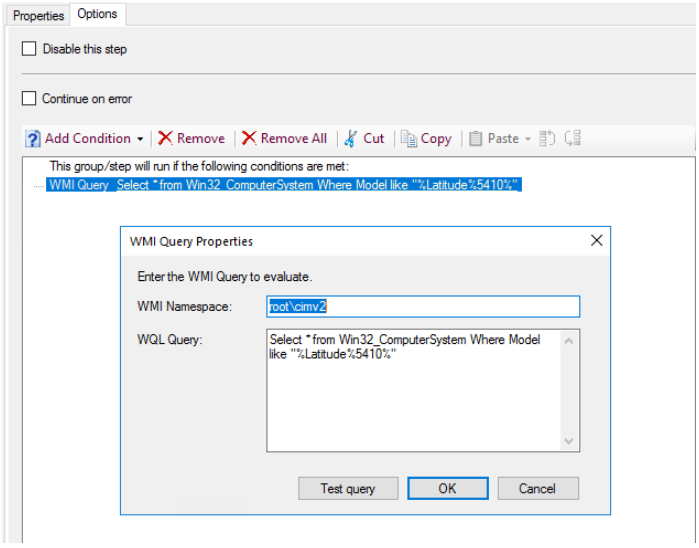
Driver Packages (Non-Driver Injection Method)

The Apply device drivers step is not supported when using stand alone media. Dell recommends that the default apply device drivers set is disabled or skipped when the task sequence is running in the factory. Review the walk-thru on TechNet for an in-depth look at driver management in config manager.

Adding drivers can be skipped if using Dynamic driver injection

1. **Task:** Apply Driver Package
2. **Name:** Type a name (Example: **Apply Latitude E10 Drivers**)
3. **Driver Package:** Browse to the driver package you want to apply for this model
4. Options tab and a Variable condition Click **Add Condition**
   - » At WQL Query, select **Query WMI** to open WMI Query Properties
   - » Type: **Select * FROM Win32_ComputerSystem WHERE MODEL LIKE "Latitude %"**



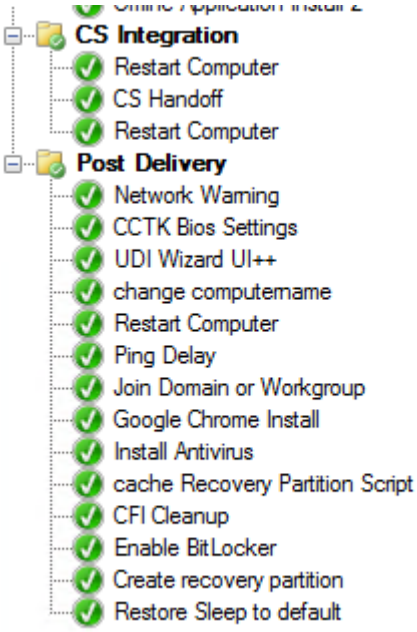


Repeat these steps for the additional models that will be targeted for deployment. Dell recommends the use of the Dell Family Driver Packs or System Cabs

Post-Delivery Configuration

Include in this group any tasks that are network dependent, user interactive, anti-virus, or security related. Make sure all tasks in this group are configured with continue on error on the task not the group.

- **Network Warning:** This will pause the task sequence to verify you Network connected.
- **Ping Delay:** This is a required step before the Join Domain Task to allow for network connectivity
- **Join Domain:** Runs while the system in connected to your network
- **CFI Cleanup:** Removes Task Sequence Force Files and extra imaging partition. Expands C to cover free space.
- Use the Post-Delivery group to install Anti-Virus/Endpoint client software
- Use the post- delivery group to run network required tasks.
- Use the post-delivery group to run tasks requiring user interaction.
- Use the Post-Delivery group to install VPN software
- Use the Post-Delivery group to run CCTK tasks to Modify the BIOS.



Creating the offline Media (ISO) to Upload.

The Dell Factory uses the ISO file you Generate using the Create Stand-Alone Media Task available for your task sequence. This will place all the needed files for your task sequence to run in a single ISO. This is the single file you will upload to Dell via the FTA link the CS Project Manager will email to you.

Media Creation Tips

1. Make sure you have enough free space on the machine you are running the console from to create the media. You will need at least twice the size of the media. Example average Media uploaded is around 10-15 Gig in size so you will need at least 30 Gig of Free space on the drive you are creating the ISO on.
2. Make sure you dont have drivers included in the media if you are using Driver injection. They are not needed and could make the media size larger then it has to be.
3. Make sure you name the file all lower case no spaces or special charcters this will help our systems process your file quickly. Example dellcfi.iso or shortcompanynamedate.iso like dell321.iso or dell321rev1.iso

   Very important to make sure you Set the CFI = True Variable on the ISO you create.

For Detailed ISO Creation steps See page 32.Create Stand Alone ISO for upload to Dell

Testing the Stand-alone Media

The Admin cannot replicate the entire Dell Factory process but is able to perform a simulation of the process that will identify potential failures. If the task sequence is like our example, which includes a network dependent post-delivery configuration group, the admin should test CFI enabled media with a VM with NIC disabled for factory part and enabled on the customers network to test domain join. Note you will need to manually create partitions before running the task sequence.

Create and Prepare a Virtual Machine

Use the following specifications when creating the Virtual Machine

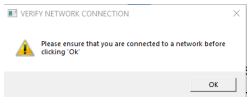
1) Hyper-V Generation 2 or VMWare Workstation 12+ with UEFI firmware type
2) CPU: 2 Cores
3) RAM: 4 GB
4) Network card enabled and accessible to infrastructure

Prepare the VM's Hard Drive prior to testing the ISO.

1) Boot VM to an instance of WinPE
2) Open a command prompt (F8)
3) Run the following commands:
4) Diskpart.exe
5) select disk 0
6) clean
7) convert gpt
8) create partition efi size=1000
9) format quick fs=fat32 label="System"
10) assign letter="S"
11) create partition msr size=128
12) create partition primary
13) format quick fs=ntfs label="Windows"
14) assign letter="c"
15) exit

Test the CFI Enabled ISO

1) Attach the CFI Enabled ISO to the Virtual Machine
2) Disable the Network Card
3) Boot the Virtual Machine from the ISO file
4) When you get to the Verify Network Connection box Enable the Nic and then click ok



5) Confirm that the Task Sequence runs as expected.
6) View the smsts.log for errors. As well as verify machine is setup successfully and joined to the domain if required and computer name is as expected.

Dell's Factory Readiness Checklist

The factory readiness checklist is a set of tasks that will assist you in preparing your task sequence for a factory deployment. After you have implemented the instructions detailed in the white paper, this checklist to ensure your task sequence meets the criteria detailed below.

Endpoint Config Manger Boot in the Factory requirements

☐ You established the variable CFI=TRUE on the stand-alone media ISO.

☐ if using Asset tag in computer name make sure you confirm with PM that Asset is being burned in the BIOS.

☐ You do not have a restart that goes back to PE or boot media. This will require the boot media that you upload with your iso to include all needed drivers for the models the task sequence is running on and will require a Task Sequence update for all model changes those drivers are not included with.

☐ You created the stand-alone media from a Primary Site Server and not a CAS.

☐ All Partitioning Steps are Disabled or set to CFI not equals true.

☐ You created "Dell CS Integration" Group and the cfi_launch.exe command with reboots.

☐ Your "Apply Network Settings" task is set to join a WORKGROUP.

☐ If your task sequence is joining a domain, then the "Join Domain or Workgroup" task is present in the "Post-Delivery Configuration" group and set to "continue on error". Note - The 'Apply Network Settings' task will not join the domain and should not be used in post delivery

☐ You have added the Ping Delay task right before the domain join task.

☐ There is a "Continue on Error" established on each individual task within the "Post-Deployment Configuration" group.

☐ The Application installation tasks staged before the "Dell CS Integration" group do not require network connectivity.

☐ There are no tasks after the CFI Cleanup task that require task sequence source files.

☐ You have placed AV installation tasks in the "Post Delivery Configuration" group.

☐ You have tested the ISO file on at least a virtual Machine with NIC Disabled till Cfi_launch.exe task and have run the task sequence on hardware your ordering.

☐ All tasks prior to the "Dell CS Integration" group successfully completes with NIC disabled.

☐ You have selected 'Next available formatted partition' as the Destination for the Operating System during the "Apply Operating System Image" task

☐ Your unattend.xml includes skips the Wireless Setup configuration screen when in the OOBE phase. (HideWirelessSetupInOOBE=TRUE)

☐ You are not leveraging utilities to modify the BIOS prior to the 'Post Delivery Configuration' group of the Task Sequence

☐ If you are using a Custom User interface in Post-delivery that is setting variables you also are running a Script to make those changes since Sys Prep has already ran.

☐ You have contacted your Configuration services Engineer and scheduled a Task sequence review meeting with them.

If you are leveraging Dell's Dynamic Driver Injection process…

☐ Disable or delete all driver pack install tasks.

☐ You have setup the Dell Driver Injection Task See page 12

☐ You are not using cloud-based utilities to update system drivers during the task sequence

☐ Your task sequence is deploying a reference WIM. (Not a setup.exe install)

☐ your Dell Dynamic Driver injection task is running after Apply Network Settings task.

☐ Your reference WIM is free of drivers.

Chapter 3

Detailed Task reference

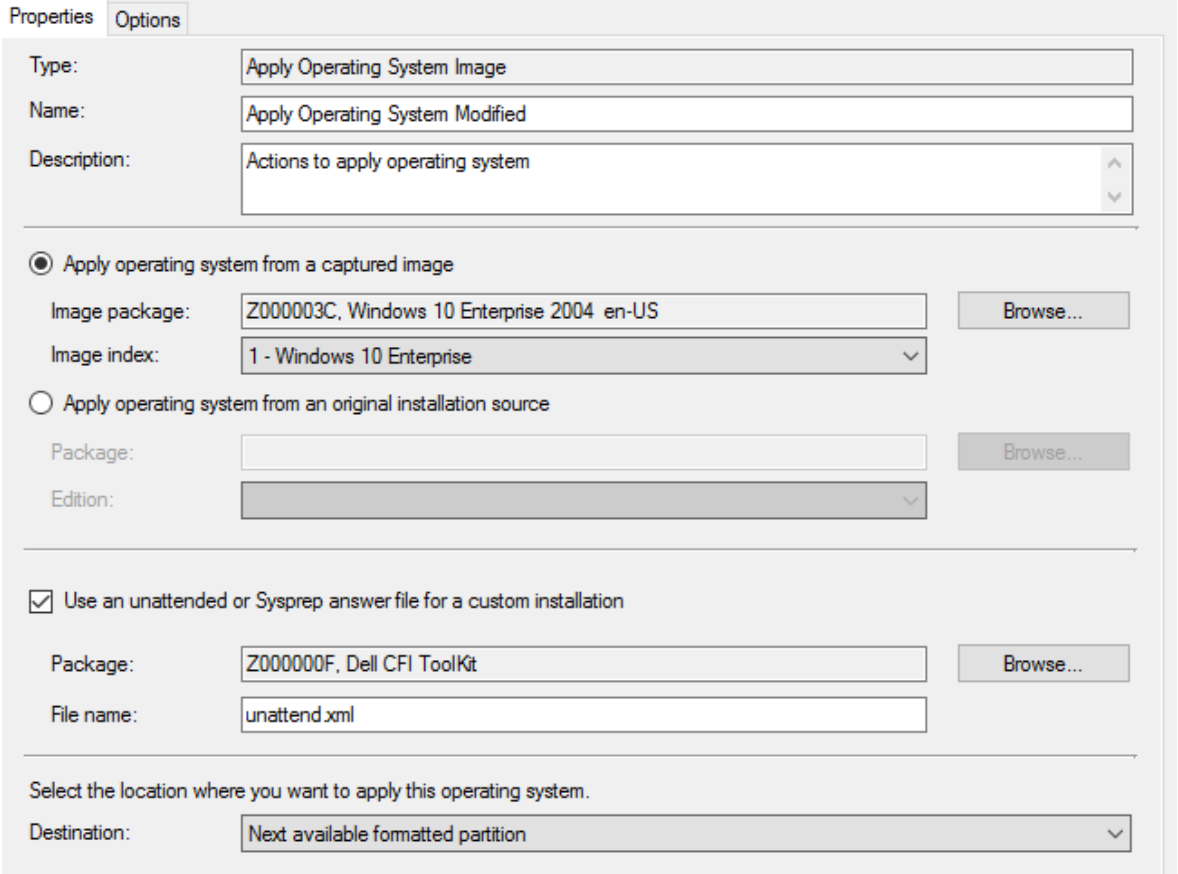
Apply Operating System Task

Disable Wireless in OOBE

This modification is required for boot in the factory deployments to stop the task sequence from prompting for a wireless network to join. You can use your own Unattend.xml if the code is included. MDT integrated task sequences already include it. If you are not using a unattend.xml we have included a sample one that can be used that only includes this setting

< HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

1) **Type:** Modify the Apply Operating System Task
2) **Apply Operating System from Captured image:** This is a requirement for Dell Driver Injection.
3) **Use an unattended or Sysprep answer file for a custom Installation**
   Package: Browse to Dell Tool Kit Package
   FileName: unattend.xml
4) **Destination:** Next Available Formatted Partition.



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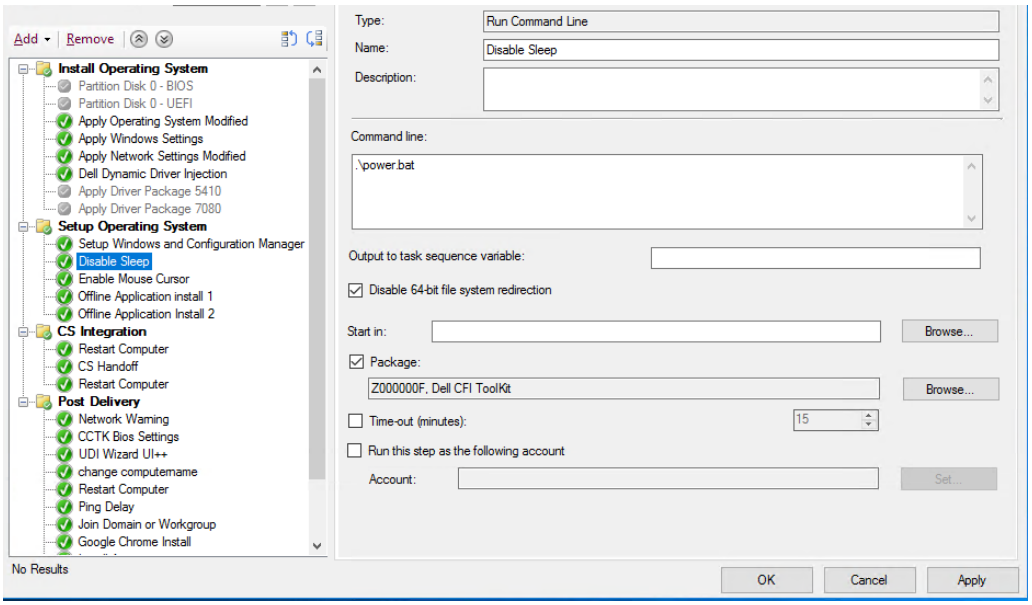
Disable Sleep Tasks

This is a Mandatory task that is required to run in the task sequence to keep the system from going to sleep during the factory process and causing the task sequence to fail. You can use your own Disable sleep settings as long as they include the settings in this script.

1) **Task Type:** Run Command line
2) **Command line:** should say .\power.bat
3) **Disable in 64 Bit Redirection:** Check
4) **Package:** check this box and select the Dell Tool Kit package



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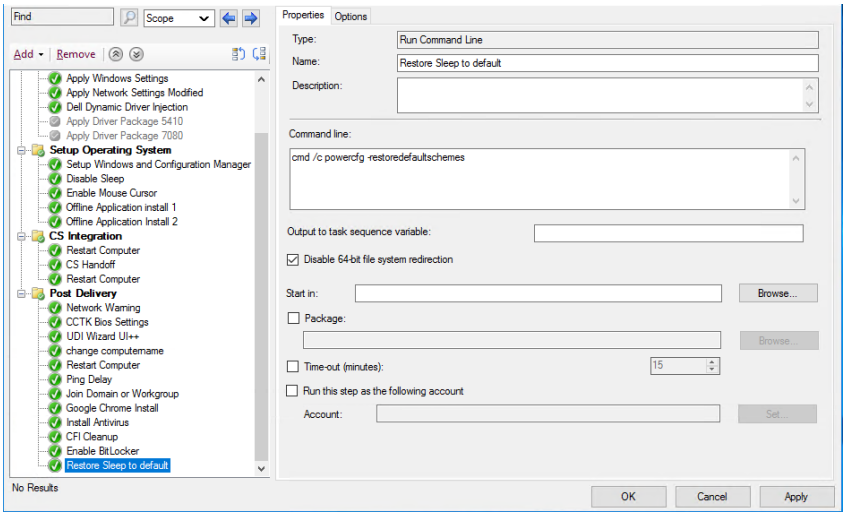
Restore Sleep to Default Settings Tasks

This task will reset the power settings applied in the disable sleep step to default windows settings. It is recommend that you run your own customer company sleep settings after you run this script.

Create a Run Command line task and name it Restore Sleep to default. Add the task right after Setup Windows and Configuration Manager task.

1) Command line should say cmd /c powercfg -restoredefaultschemes
2) Check Disable in 64-bit file system redirection



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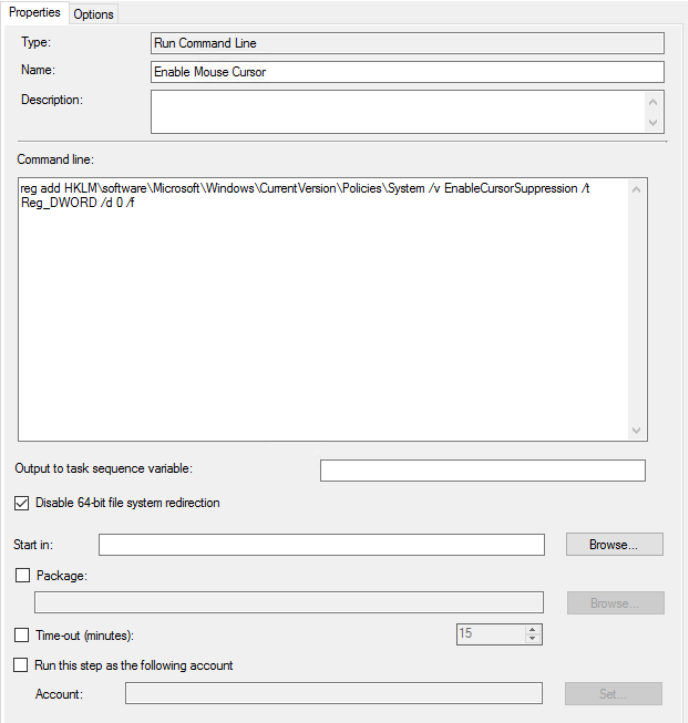
Enable Mouse Cursor

Create a Run Command line task and name it Enable Mouse Cursor. Add the task right after Setup Windows and Configuration Manager task

1. **Type:** Run Command Line
2. **Command line:** reg add HKLM\software\Microsoft\Windows\CurrentVersion\Policies\System /V EnableCursorSuppression /t Reg_DWORD /d 0 /f
3. **Disable in 64 Bit Redirection:** Check this box.



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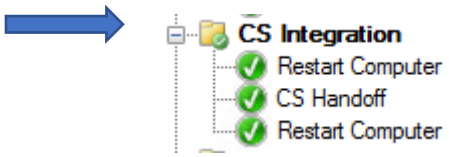
Dell CS Integration Group

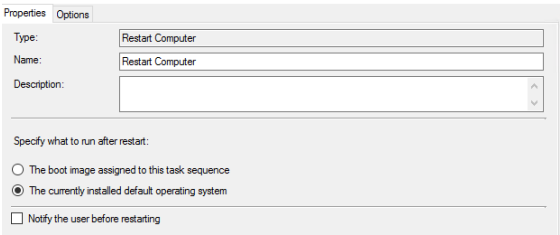
The Dell CS integration group is placed at the end of your existing Task sequence and consists of three primary tasks reboot, CS Handoff, Reboot. This group splits the task sequence in half the top half runs in the factory the bottom half runs when you first unbox the machine at your location.



Create a New Group – Dell CS Integration

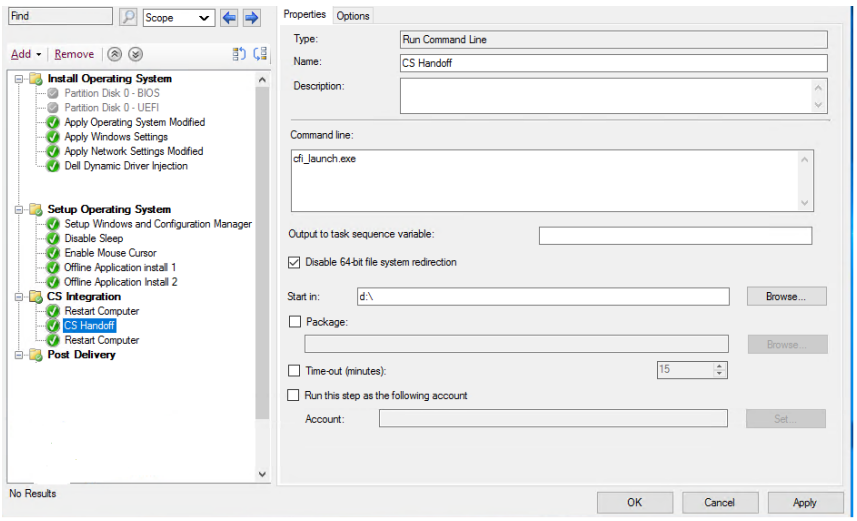
Add two restart computer task

1) Specify to boot to currently installed default OS and remove Notify user checkbox.



Create a Run Command line task in the middle of the reboots.

1) Command line should say cfi_launch.exe.
2) Check Disable in 64 Bit Redirection
3) Type D:\ in the start in.
4) Click options and make sure task is set to Continue on Error



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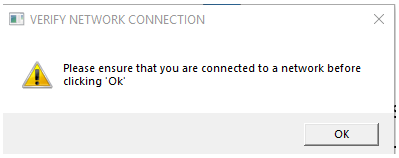
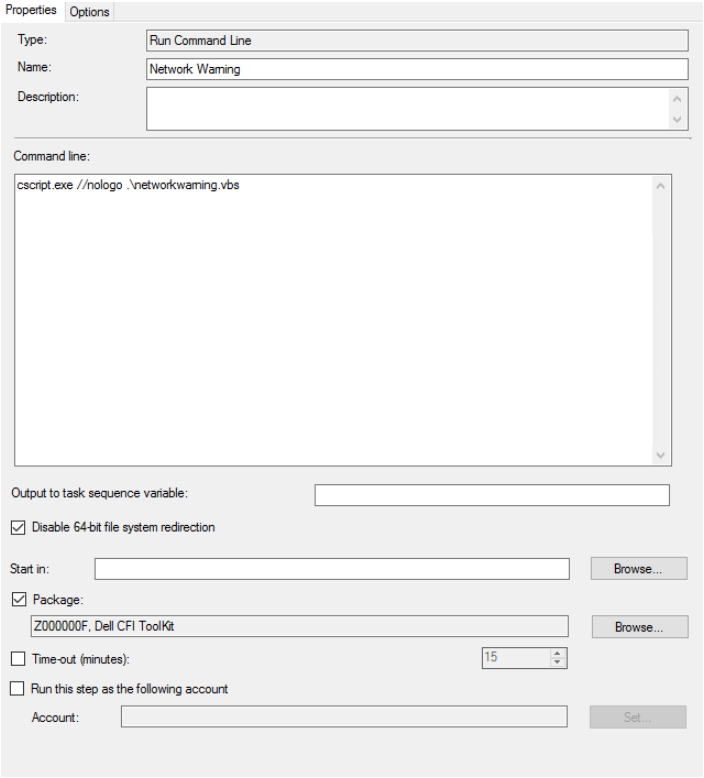
Network Warning message

(Optional But recommend)

This task will put a message box on the screen reminding the person turning the machine on to plug a network cable into the machine so the task sequence will not fail and need reimaged. It will sit at this screen till ok button is clicked.



1) **Type:** Create a Run Command line task
2) **Command line:** cscript.exe //nologo .\networkwarning.vbs
3) **Disable in 64 Bit Redirection:** Check this box.
4) **Package: Choose the Dell Tool Kit Package**



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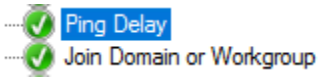
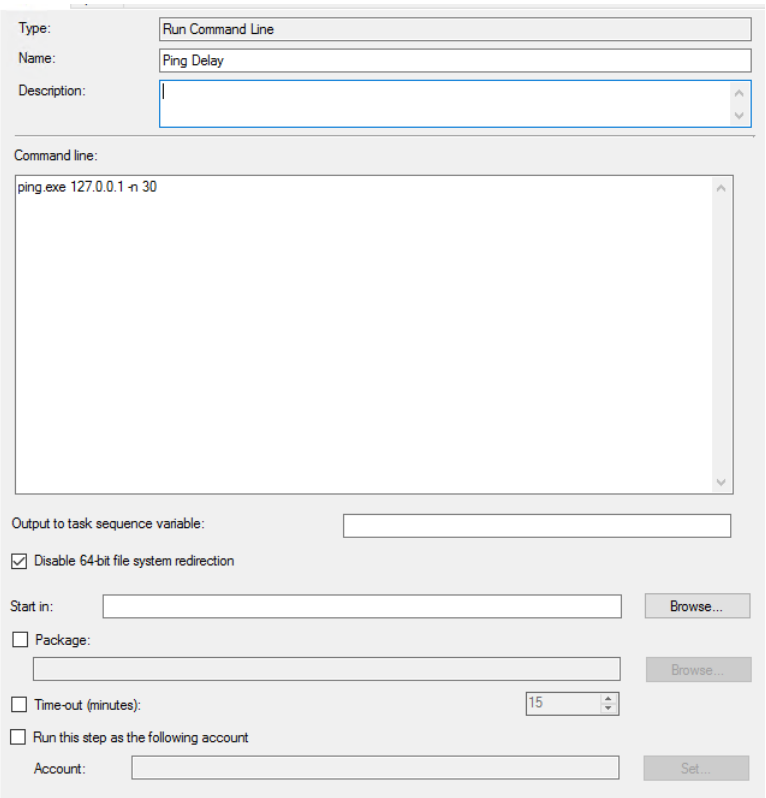
Ping Delay before Domain join

This task is required to run right before the join domain and workgroup task. This will allow the machine to establish network communication before trying to join the domain.



1. **Type:** Create a Run Command line task
2. **Command line:** ping.exe 127.0.0.1 -n 30
3. **Disable in 64 Bit Redirection:** Check this box.

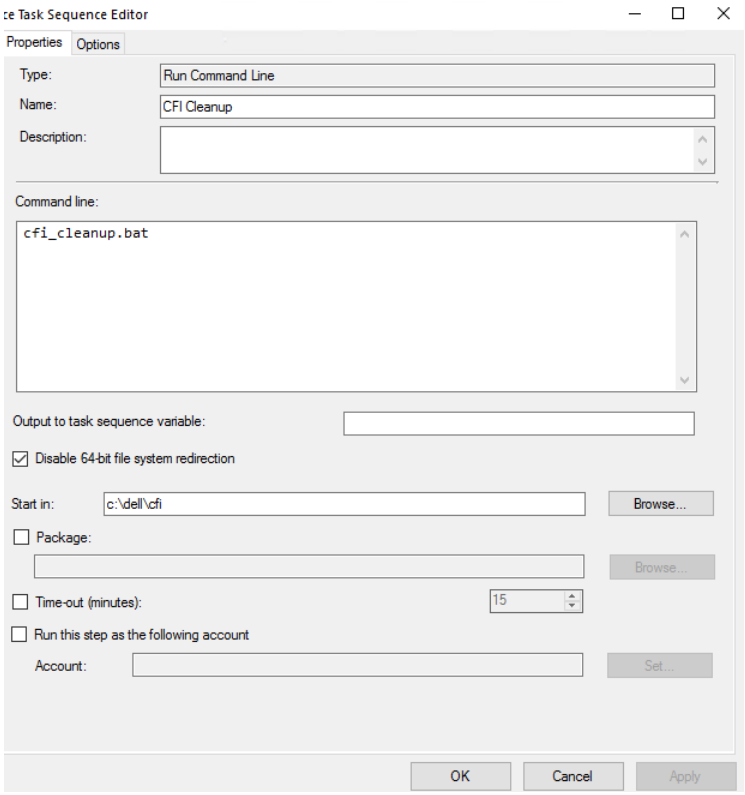


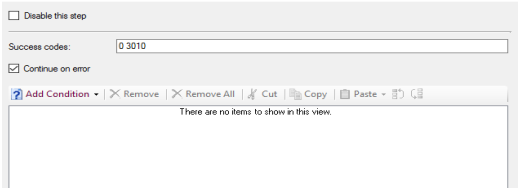
Return to Map

Dell Cleanup Process

This task needs to be created in the Post Delivery Group it should be the second to last task created in the task sequence as it removes the source files for the task sequence. The only task that should run after it is Bitlocker encryption or tasks that need to modify the partitions like recovery partition setup. If you need access to source files after running this task you need to cache them to the hard drive before running it.

1. **Type:** Run Command Line
2. **Name:** CFI Cleanup
3. **Command line:** cfi_cleanup.bat
4. **Disable in 64 Bit Redirection:** Check this box.
5. **Start in:** C:\dell\cfi
6. **Options:** Continue On Error





Return to Map

Config Mgr. BIF MDT integrated Task Sequence Map

Part 1 of 2

- Execute Task Sequence (Modified)
  - Initialization
    - Partition if necessary (Modified)
    - Set Variable for Format and Partition Disk (unused)
    - Set Variable for Wizard
    - Use Toolkit Package
    - Check Pre-reqs
    - Gather
  - Validation
  - State Capture
  - Preinstall
    - New Computer Only
      - Validate
      - UDI Wizard (Modified)
      - Format Disk
        - Format and Partition Disk (UEFI) (Modified)
        - Format and Partition Disk (Modified)
        - Set OSDDiskPart
        - Pre-provision BitLocker (Modified)
        - Set Variable for Pre-provision BitLocker(Modified)
        - Use Toolkit Package
        - Capture Network Settings using MDT
    - Refresh Only
      - Set Status 1
    - Offline USMT
      - Backup
  - Install
    - Set Status 2
    - Set Variable for Drive Letter
    - Apply Operating System Image (Modified)
    - Use Toolkit Package
  - Post Install
    - Gather
    - Apply Windows Settings
    - Apply Network Settings (Modified)
    - Configure
    - Dynamic Driver Injection
    - Apply Driver Package 5410
    - Apply Driver Package 7080
    - Auto Apply Drivers (Modified)
    - Set Status 3
    - Setup Windows and ConfigMgr
    - Disable Sleep
    - Enable Mouse Cursor
  - State Restore
    - Restart Computer
    - Use Toolkit Package
    - Set Status 4
    - Install Software Updates
    - Gather
    - Tattoo
    - Opt In to CEIP and WER
    - Enable BitLocker (modified)
    - Install Software (Disabled)

Remove continue on error

Disable Partition Tasks

Disable UDI Wizard Task

Disable partition steps

Disable BITLOCKER steps

Set to next available formatted partition

No need to modify unattend.xml

Set to join a workgroup

Run command line cscript.exe //NOLOGO .\importcustomdrivers.vbs COE

Verify there is no restart to PE above this step

See Disable Sleep task reference

See enable mouse task reference

Disable Install Software task

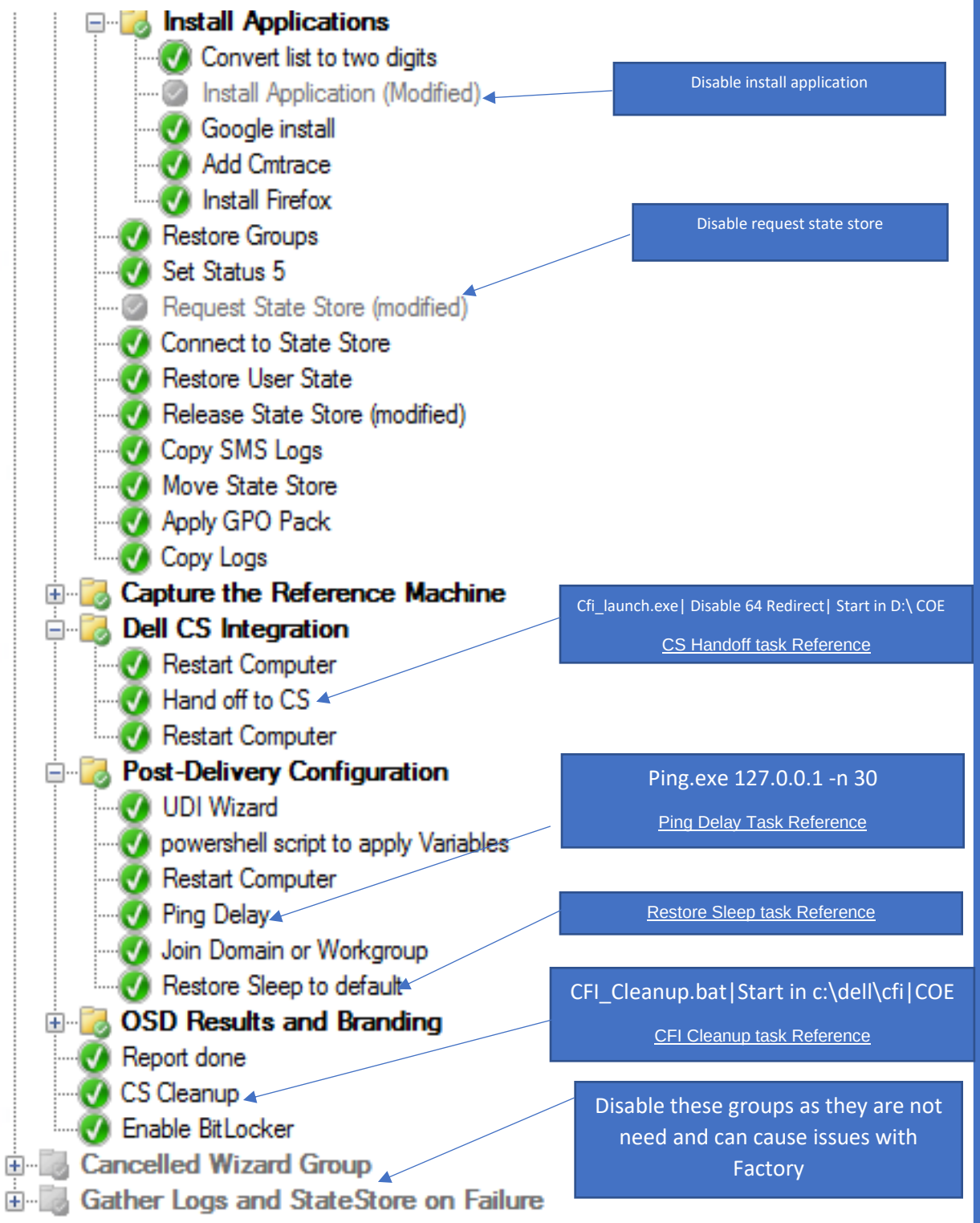
Disable OPT to CEIP and WER

Disable Enable BITLOCKER

Disable UDI Wizard Task

Config Mgr. BIF MDT integrated Task Sequence Map

Part 2 of 2



Return to Standard Config Manager Map

Chapter 4

Optional Task Sequence customizations

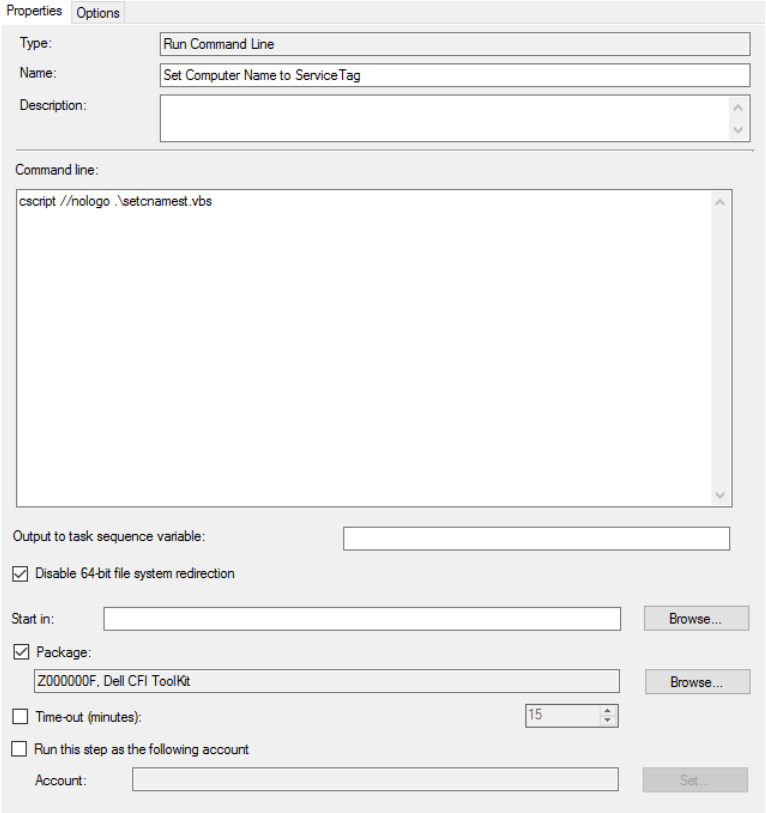
Computer Naming Option 1

Setting Computer name to Service Tag.

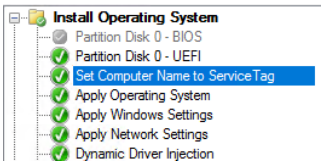
It is recommended you customize the computer name inside the task sequence. This document lists three of the most popular options for changing the computer name. All three scripts are included in the Dell Cfi Toolkit for convenience. Option one reads the service tag from the bios of the system and populates the OSDCOMPUTERNAME variable. Add to task sequence before the Apply windows settings task

Type: Run Command Line

1. **Name:** Set Computer Name to Service Tag
2. **Command line:** cscript //nologo .\setcnamest.vbs
3. **Disable in 64 Bit Redirection:** Check this box.
4. **Package: Dell CFI Tool Kit**



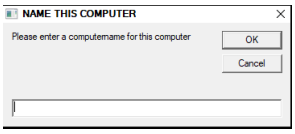
Place this task right after the disabled partition Steps. The Apply Windows Setting Step Applies the OSDCOMPUTERNAME Variable which is set by this script to the Unattend.xml so sysprep can change the computer name.



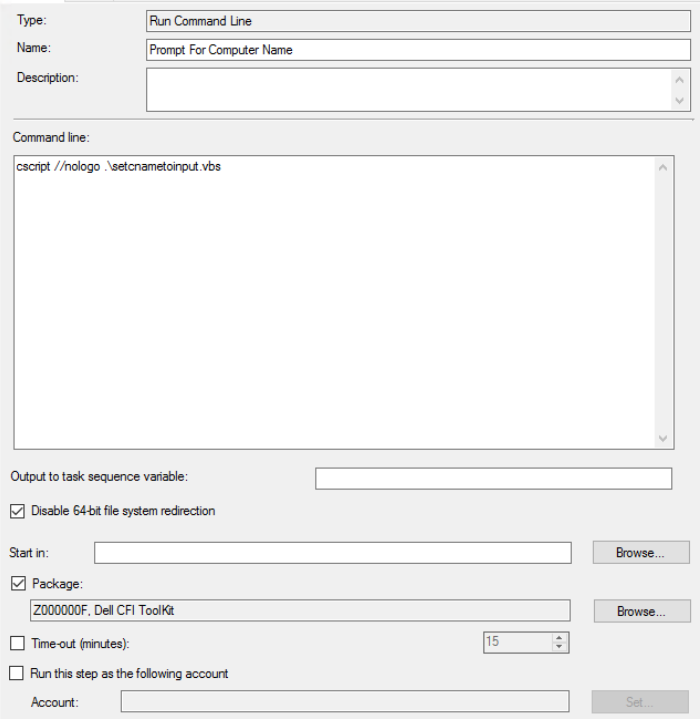
Computer Naming Option 2

Setting Computer name to input box.

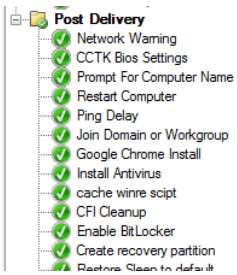
This script is handy for computer name standards that are too difficult to automate. It needs to run in post delivery and will pop up a box for you to type the computer name in. Once you click ok the task will change the name of the system to what you typed in. You must add a Restart computer task after this task



1. **Type:** Run Command Line
2. **Name:** Prompt for Computer Name
3. **Command line:** cscript //nologo .\setcnametoinput.vbs
4. **Disable in 64 Bit Redirection:** Check this box.
5. **Package: Dell CFI Tool Kit**



Place this task in Post Delivery. I would do it right after network warning or close to it but before domain join. Place a restart computer task after this task.

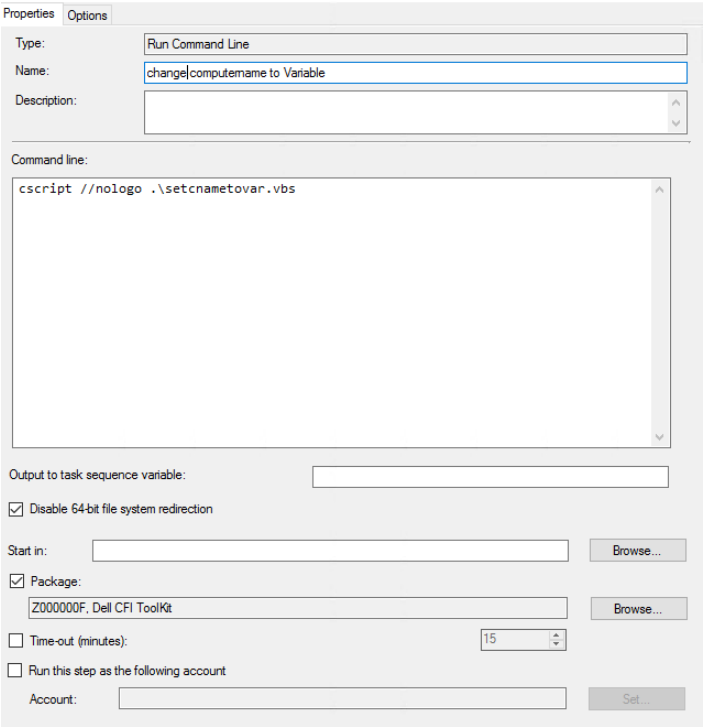


Computer Naming Option 3

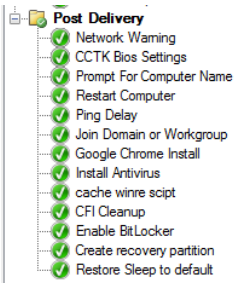
changes the computer name to OSDCOMPUTERNAME variable.

This script is used to change the computer name of the system running the task sequence to what is in the OSDCOMPUTERNAME Variable. Most user interfaces (UI) will run in the beginning of the task sequence and set the OSDCOMPUTERNAME variable and rely on sysprep process to make the change on the computer. Since we need to move the UI to post delivery after sysprep runs in boot in the factory task sequences we can run this script after the user interface task to make the changes for you. This script changes the computer name of the system to what is set in the OSDCOMPUTERNAME Variable. This task needs a restart computer task added after it.

1. **Type:** Run Command Line
2. **Name:** change computer name to variable
3. **Command line:** cscript //nologo .\setcnamevar.vbs
4. **Disable in 64 Bit Redirection:** Check this box.
5. **Package: Dell CFI Tool Kit**



Place this task in Post Delivery. I would do it right after network warning or close to it but before domain join. Place a restart computer task after this task.



Adding a Recovery Partition

(Optional)

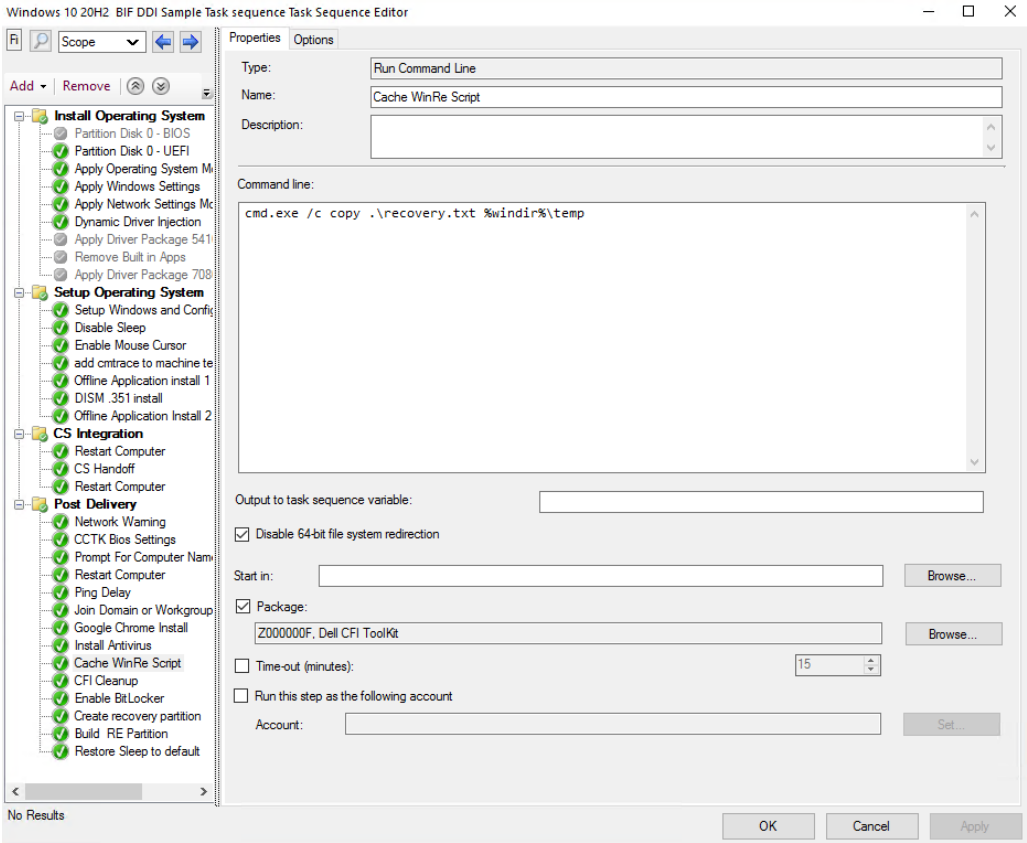
Dell Factory standard partitioning is locked in and can't be modified in the factory. You can add an additional partition if you run the task after the cfi_cleanup.bat task which ends the factory process but note after this task the task sequence source files are gone so any task will need to reference files cached on the c drive or run with no source. This task will create the Recovery partition and activate it.

```
Partition ###  Type              Size     Offset
-------------  ----------------  -------  -------
Partition 1    System            2048 MB  1024 KB
Partition 2    Reserved           128 MB  2049 MB
Partition 3    Primary            463 GB  2177 MB
```

You can run a partitioning script after the CFI_Cleanup.bat task to add a Windows Recovery partition if desired.

1. First you need to cache the DISKPART script to the local machine as the package source will be gone after cfi_cleanup.bat runs.

   Task Type: Run Command Line
   Command Line: cmd.exe /c copy .\recovery.txt %WINDIR%\temp
   Package: CFI Toolkit Package
   Check Disable 64 bit Redirection
   Placement: Run before cfi_cleanup.bat

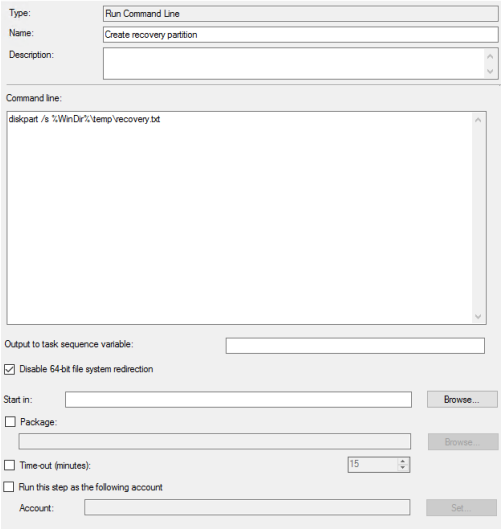


Adding a Recovery Partition (Continued)

(Optional)

Step you create the WinRE partition after CFI_Cleanup.bat file runs.

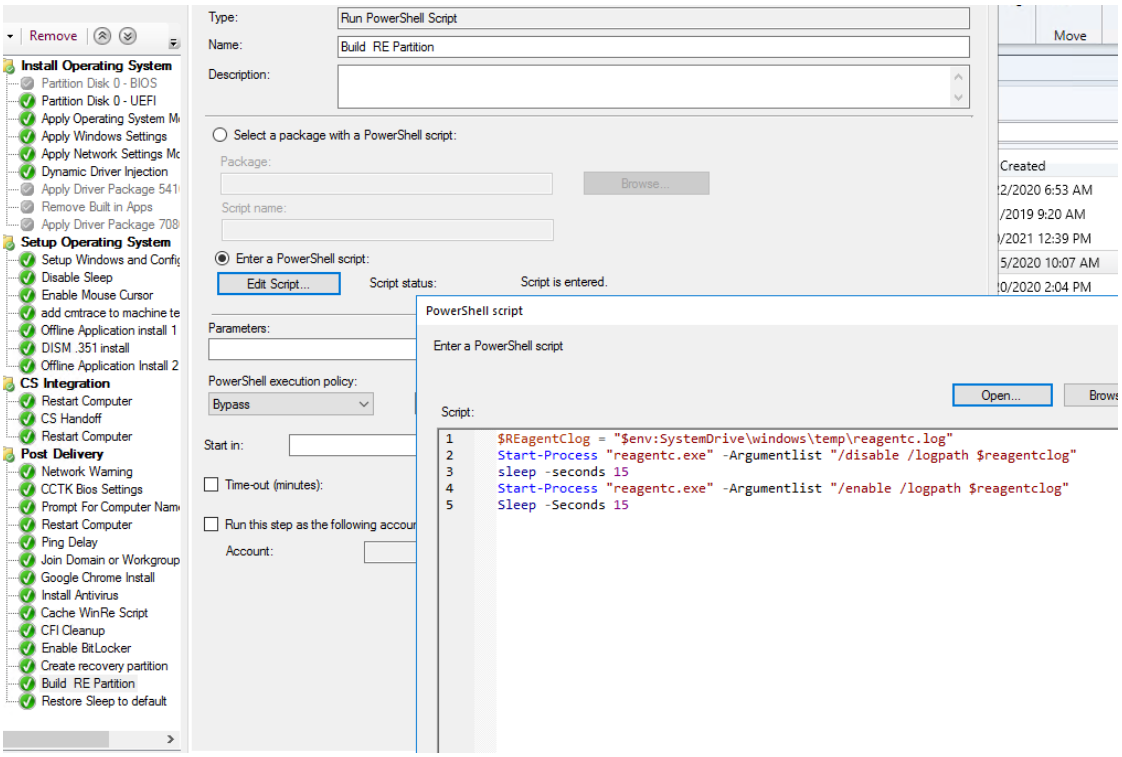
Type: Run Command Line
Command Line: DISKPART /s %WINDIR%\temp\recovery.txt
Check Disable 64-bit File Redirection



lastly you need to Disable and then Reactivate the WinRE partition

Type: Run PowerShell Script
Powershell Execution policy: Bypass
Script Type: Enter PowerShell script (click the Edit Script Button)

Note the Code can be copied/pasted from the buildwinre.txt file located in the Dell Toolkit package source directory See [Dell Tool Kit for Reference.]

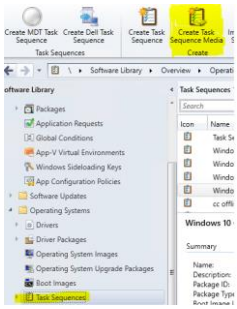


ISO Creation steps for upload to Dell

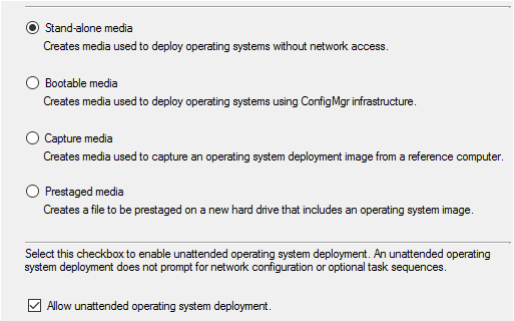
Use the create task sequence media process to generate the ISO file need for upload to Dell.

Navigate to the Software Library pane in the Configuration Manager Console

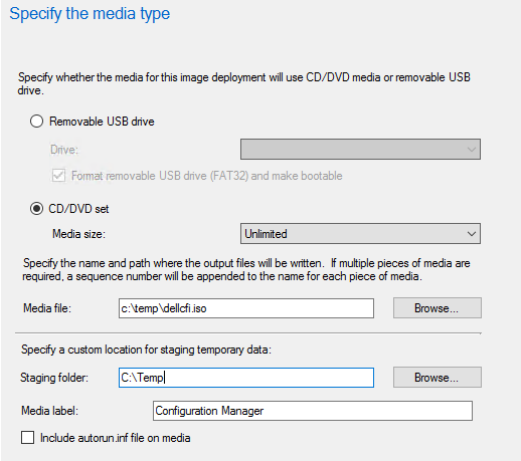
Select Task Sequences click on Create Task Sequence Media button in the ribbon display



Select **Stand-alone media and** Check **Allow unattended operating system deployment Click Next**

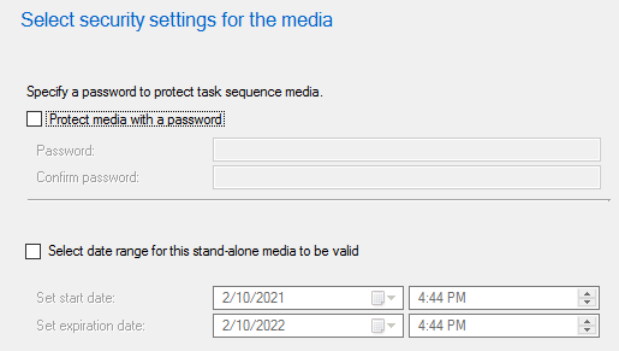


Select unlimited on Media Size- Select a Download and staging path with enough space to hold the media. Use a file name that is lower case with no space. Click Next

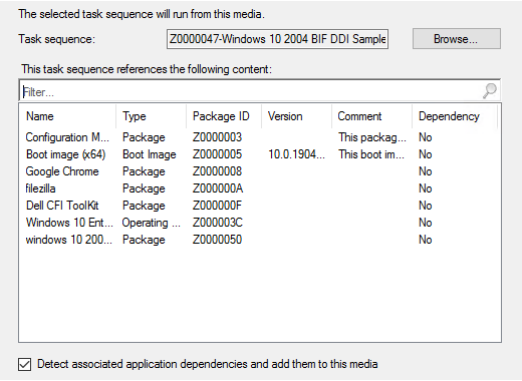


ISO Creation steps for upload to Dell (Continued)

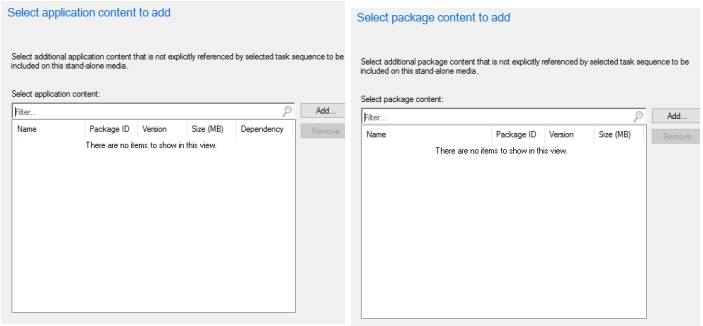
Remove protect media with a password button and click next.



Browse and select Task Sequence you want to Deploy with Media and click Next.

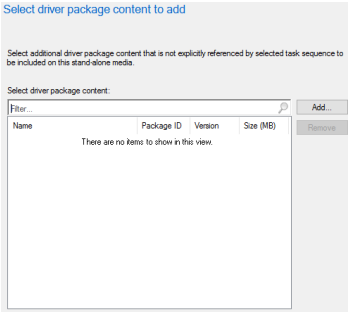


Click next on Applications and Packages leaving them as Default



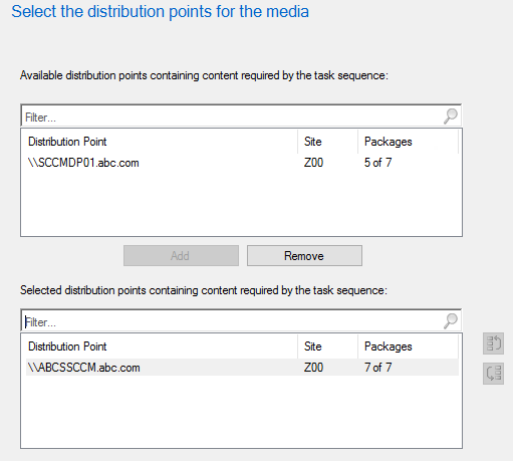
Click next on Drivers

Note if using Driver injection make sure this screen is empty if not click cancel go back in task sequence and verify you don't have any driver packages enabled to deploy.

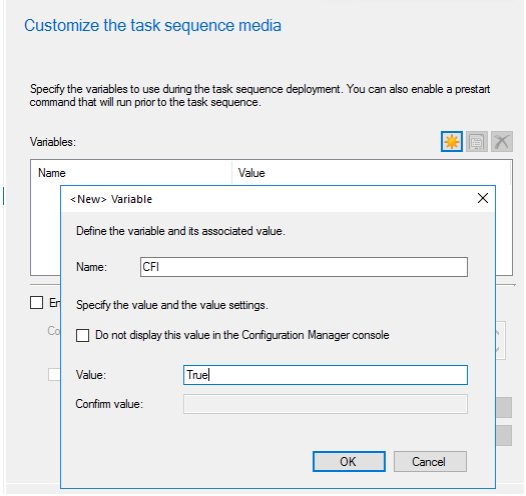


ISO Creation steps for upload to Dell (Continued)

Select a Distribution point that has all of the packages and is close to the machine you are running this Build on. Click Add and then next.



Click the Yellow button and add the Variable CFI = True click ok and Next



Click Next and build the iso file. Click close when Completed Successfully