Microsoft[®] Configuration Manager

Dell Factory Integration



The power to do more

User Guide March 2025

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Table of Contents

Chapter 1 Boot a	and Factory Process Overview	03
Introduction	to Config Mgr. BIF at Dell Factories	04
Dell factory/0	Config Mgr. OSD Process Overview	05
Dell Boot in f	actory Config Mgr. OS Deployment Standards	
Applications	VS Packages	07
Task Sequence	ce Break Down	
Chapter 2 Boot a	and Factory Task Sequence Modifications	09
Config Mgr. F	BIF OS Deployment Map Introduction	10
Config Mgr. F	BIF OS Deployment Map	
Dell Toolkit P	arkage	12
Eactory Dyna	mic Driver Injection	13
Driver Packac	tes (Non-Driver Injection Method)	13 1 <i>1</i>
	configuration	14 15
Post-Delivery	effline Medie (ICO) to unlead	15
	omine Media (ISO) to upload	10
lesting the St	tand-Alone Media	
Dell's Factory	r Readiness Checklist	18
Chapter 3 Detail	ed Task Reference	19
Apply Operat	ing System Task	20
Disable Sleep) Task	
Restore Sleer	to Default Settings	
Enable Mous	e Cursor	23
Dell CS Integr	ration Group	24
Network War	ning Message	24 25
Network War	rning Message	26
Ping Delay be	efore Domain Join	27
Dell Cleanup	Process	28
Config MGR E	BIF MDT Integrated Task sequence MAP 1 of 2	29
Config MGR E	BIF MDT Integrated Task Sequence MAP 2 of 2	30
Chapter 4 Option	nal Task Sequence Customizations	31
Computer Na	ming Option 1 sotting computer name to service tag	20
Computer Na	ming Option 1 Setting computer name to Accet Tag	∠۲۲
Computer Na	mining Option 2 Setting Computer name to Asset Tag	
Computer Na	inning Option 3 Setting Computer name to input Box	
Integrating Computer Na	Iming Option 4 Change Computer name to OSDCOMPUTERNAM	ie variable35
In the Dell Factory	overy Partition	
Page 2	steps for upload to dell	37
So Creation	steps for upload to Dell (Continued)	
ISO Creation	steps for upload to Dell (Continued)	

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.



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

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

Requirement

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
Configuratio	on 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

Dell Boot in the Factory Config Mgr. OS Deployment Standards

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. Make sure you SYSPREP the Reference wim when recapturing and verify it has no drivers included and process was successful. An Unsuccessful recapture will cause issues deploying in the Dell factory.

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 <u>Dell OSD Driver Packs</u> 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.

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. <u>https://docs.microsoft.com/en-us/troubleshoot/mem/configmgr/troubleshoot-install-application-step</u>
- 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.

	Install Operating System
	Partition Disk 0 - BIOS
	Partition Disk 0 - UEFI
	🙆 Apply Driver Package 5410
	🞯 Apply Driver Package 7080
þ	Setup Operating System
d-L	CS Integration
	- 🕜 Restart Computer
0	S Post Delivery
	CCTK Bios Settings
	Restore Sleep to default

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 Introduction

The map on the next page 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. Also note the fields highlighted in yellow are required fields for the factory process to work properly. The Order of the tasks starting at the Apply OS task and ending at the driver injection task are required to be in the same order listed in the map for the factory process to work properly.

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 you 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 what tasks only run while running in house. 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.

Note if you have MDT Integration then your task sequence will look different from the task sequence on the next page.

Microsoft has Depreciated MDT integration with Config Manager in Dec of 2024 and will end support 10-10-2025. <u>Deprecated features - Configuration Manager |</u> <u>Microsoft Learn</u>

Using MDT in Config Manager task sequence at Dell is currently at your own risk. I left the unupdated version in the guide for reference usage only.

MDT/Config Manager MAP here

Config Manager BIF OS Deployment Map

Highlighted fields are Mandatory

🐻 Ins	stall Operating System
🕗	Partition Disk 0 - 1
🕗	Pre-provision BitLocker 1
<mark>-</mark>	Disable Sleep 2
	Apply Operating System 3,4
	Apply Windows Settings 3
	Apply Network Settings 3, 5
	Dell Dynamic Driver Injection 3, 6
o Se	tup Operating System
- V	Setup Windows and Configuration Manager 7
	Disable Sleep 2
0	Enable Mouse Cursor 8
0	Adobe Reader Install
	Google Chrome Install
	Office 365 64bit
CS CS	Integration
	Restart Computer 9
	CS Handoff 10
	Restart Computer 9
Po Po	st Delivery
	Change Time to SMS Server 11
	Network Warning 12
- V	Ping Delay 13
- V	Join Domain or Workgroup 14
	Install Anti Virus Software
- Q	CFI Cleanup 15
-0	Restore Sleep Settings to Default 16
V	Enable BitLocker

1 Disable the partition and Pre-Provision BitLocker Steps or add a task sequence variable CFI≠True

2 power.ps1 Bypass Disable Sleep task Reference

3 the order of the Apply OS, Win Setting, Net Setting, and Driver injection are required to be in this exact order. With no tasks missing.

- 4 Unattend.xml is required. <u>Apply OS Step</u>
- 5 Set to join a workgroup

6 Run command line: cscript.exe //NOLOGO .\importcustomdrivers.vbs COE See Driver Injection

- 7 Make sure there are no MP referenced in Client install
- 8 Enable Mouse Cursor task Reference
- 9 remove dialog and check reboot to OS

10 Cfi_launch.exe | Disable 64 Redirect | Start in D:\

COE CS Handoff task Reference

11 time.ps1 bypass servername Set Time

12 Networkwarning.ps1 bypass <u>Network Warning</u>

13 Ping Delay Task Reference

- 14 make sure this is the set to continue on error
- 15 CFI_Cleanup.bat |Start in c:\dell\cfi |COE
- CFI Cleanup task Reference
- 16 Restore Sleep task Reference

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. Power.ps1- Script used to disable modern sleep and set high performance power plans.
- 3. Unattend.xml- files used to pass disable wireless in OOBE.

Optional scripts to help automate your task sequence.

- networkwarning.ps1- script used to pause task sequence to remind operator to connect a network cable before proceeding.
- 2. Time.ps1- changes the time of the system to the time of the server specified.
- 3. Setcnamest.ps1- sets the OSDCOMPUTERNAME variable to the service tag of the system.
- 4. Setcnameat.ps1- sets the OSDCOMPUTERNAME variable to the asset tag of the system.
- 5. Inputcname.ps1- prompts user for computer name and then changes the machine to match input.
- 6. **Setcnamevar.ps1** script used in post-delivery to change the computer name on the system to what is in OSDCOMPUTERNAME variable.

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 <u>Dell</u> <u>Family driver packs</u> 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

Find 🔎 Scope 🗸 🖨	Properties Options				
	Type:	Run Command Line			
Add • Remove 🛞 🏵 👘 🕻	Name:	Dell Dynamic Driver Injection			
Install Operating System Partition Disk 0 - BIOS Partition Disk 0 - UEFI	Description:				< >
Apply Operating System Modified Apply Windows Settings	Command line:				
Apply Network Settings Modified Del Dynamic Dirver Practage Modified Apply Diver Practage 2510 Apply Driver Practage 7080 Setup Dyner Indextage 7080 Setup Dynerating System Setup Windows and Configuration Manager	cectpt.exe //nologe). \importcustomdrivers.vbs			^
	Output to task seque	nce variable:			~
	Start in:				Browse
	Package:				
	Z000000F, Dell	CFI ToolKit			Browse
	Time-out (minutes	a):	15	÷	
	Run this step as t	he following account			
	Account:				
No Results	_		OK	Cancel	Apply
Properties Options					
Disable this step					
Success codes: 0 3010					
Continue on error					
Add Condition - × Remove × Remove A	II 🔏 Cut 🐚 Copy	📋 Paste → 📳 🗘 🗒			
Add Condition - X Remove X Remove A	II 🔏 Cut 🐚 Copy				
Add Condition • × Remove × Remove A	II 🔏 Cut 📑 Copy				

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 <u>TechNet</u> for an indepth 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 %"

Name: Apply Driver Package 5410 Description:	
Description:	
Select the driver package containing drivers to be made available during Windows setup.	
Driver Package: Z000004D, Dell 5410-Windows10-A02-NV09F-X02-00x64 A02	Browse.
Install driver package via running DISM with recurse option	
Use OSDInstallDriversAdditionalOptions task sequence environment variable to specify additional DISM	parameters
Select the mass storage driver that must be installed before Configuration Manager installs Windows of earlier than Windows Vista.	perating systems ti
Driver:	
Model:	
Do unattended installation of unsigned drivers on versions of Windows where this is allowed	
Properties Options	
_	
Disable this step	
Continue on error	
Add Condition - X Remove X Remove All K Cut I Conv. I Docto - 50	68
	Ģ
Inis group/step will run if the following conditions are met: WMI.Query. Select * from Win32. ComputerSystem Where Model like "%Latitude%5410%"	
WMI Query Properties	×
Enter the WMI Query to evaluate.	
Enter the WMI Query to evaluate. WMI Namespace: root voimv2	
Enter the WMI Query to evaluate. WMI Namespace: tootNormv2 WQL Query: Select *from Win32 ComputerSystem Where Model	
Enter the WMI Query to evaluate. WMI Namespace: tootNcimv2 WQL Query: Select *from Win32_ComputerSystem Where Model like "%Latitude%5410%"	^
Enter the WMI Query to evaluate. WMI Namespace: tootNormY2 WQL Query: Select *from Win32 ComputerSystem Where Model like "%Latitude %5410%"	^
Enter the WMI Query to evaluate. WMI Namespace: rootNormV2 WQL Query: Select * from Win32_ComputerSystem Where Model like "%Latitude %5410%"	^
Enter the WMI Query to evaluate. WMI Namespace: <u>rootNormv2</u> WQL Query: Select * from Wn32_ComputerSystem Where Model like "%Latitude %5410%"	^
Enter the WMI Query to evaluate. WMI Namespace: <u>root vermv2</u> WQL Query: Select * from Win32_ComputerSystem Where Model like **%Latitude %5410%**	~
Enter the WMI Query to evaluate. WMI Namespace: rootNemv2 WQL Query: Select *from Win32_ComputerSystem Where Model like "%Latitude%5410%"	~
Enter the WMI Query to evaluate. WMI Namespace: root voimv2 WQL Query: Select * from Win32_ComputerSystem Where Model like "%Latitude%5410%"	~

Integrating Config Manager In the Dell Factory Page 14

Repeat these steps for the additional models that will be targeted for deployment. Dell recommends the use of the Dell or

Post-Delivery Configuration

Include in this group any tasks that are network dependent, user interactive, antivirus, 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

- 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 do not set a password on the media.
- 3. 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.
- 4. 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 37.

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
- 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

VERITY NETWORK CONNECTION ×

 Market Provide Connected to a network before
 diding 'Dx'

 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

□ The Task Sequence order is exactly Apply Operating System, Apply Windows Settings, Apply Network settings, Driver injection, and Setup windows and Config Manager.

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

□ You do not have a restart that goes back to PE 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. Also no restart before Setup Windows and Config Manager.

□ If you want to have the Factory create the repair partition make sure you notify the PM to add it to your project and

remove all tasks from the task sequence that were added in past to create the partition manually. You have created the stand-alone media from a Primary Site Server and not a CAS.

- □ All Partitioning Steps are Disabled or set to CFI does not equal 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

- $\hfill\square$ 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

□ You Must have an unattend.xml which 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.

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

Integrating Config Manager In the Dell Factory Page 18

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) **Unattend.**xml: use your custom file as long as its disabling wireless in OOBE or use the one in the toolkit *Note: having an UNATTEND.XML is a requirement for the factory process.*
- 4) Destination: Next Available Formatted Partition.

Туре:	Apply Operating System Image	
Name:	Apply Operating System Modified	
Description:	Actions to apply operating system	
Apply operating sy	stem from a captured image	
Image package:	Z000003C, Windows 10 Enterprise 2004 en-US	Browse
Image index:	1 - Windows 10 Enterprise \checkmark	
Apply operating sy	stem from an original installation source	
Package:		Browse
Edition:	\sim	
✓ Use an unattende	d or Sysprep answer file for a custom installation	
Package:	Z000000F, Dell CFI ToolKit	Browse
File name:	unattend xml	
	ere you want to apply this operating system	
Select the location wh	lere you want to apply this operating system.	

Disal	ble	S	leep	Tas	ks
DISU	JIC	\mathcal{I}	iccp	TUS	NJ

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 PowerShell Script
- 2) Command line: power.ps1
- 3) PowerShell execution policy: bypass
- 4) **Timeout:** checked and set to 15min
- 5) Package: check this box and select the Dell Tool Kit package

	Nun Fowersnei Script	
lame:	Disable Sleep	
)escription:		
Select a packag Package:	ge with a PowerShell script:	
Z000000D, DELL	ConfigMgr BIF Toolkit V2 Browse	
Script name:		
power.ps1		
Enter a PowerSł	hell script:	
Add Script	Script status: No script specified.	
Add Script	Script status: No script specified.	
Add Script	Script status: No script specified.	
Add Script	Script status: No script specified.	
Add Script 'arameters: 'owerShell execution	Script status: No script specified.	
Add Script 'arameters: 'owerShell execution Bypass	Script status: No script specified.	
Add Script 'arameters: 'owerShell execution Bypass	Script status: No script specified.	
Add Script 'arameters: 'owerShell execution Bypass art in:	Script status: No script specified.	Browse
Add Script Parameters: PowerShell execution Bypass art in:] Time-out (minutes)	Script status: No script specified.	Browse
Add Script Parameters: PowerShell execution Bypass art in:] Time-out (minutes)] Run this step as th	Script status: No script specified.	Browse

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

Find 👂 Scope 🗸 🔶	Properties Options			
	Type:	Run Command Line		
Add • Remove 🛞 🏵 🚦 🕻	Name:	Restore Sleep to default		
O Apply Windows Settings Apply Network Settings Modified O Dell Dynamic Driver Injection	Description:			~ ~ ~
Apply Driver Package 5410 Apply Driver Package 7080	Command line:			
Setup Operating System Setup Windows and Configuration Manager Setup Windows Configuration Manager Setup Mouse Cursor Enable Mouse Cursor	cmd /c powercfg resto	oredefaultschemes		\$\u00e9\$
Offine Application Install 1 Offine Application Install 2	Output to task sequence	e variable:		
Restart Computer Post Delivery Vetwork Warning	Start in:			Browse
CCTK Bios Settings UDI Wizard UI++ Constant	Package:			Browse
	Time-out (minutes): Run this step as the	following account	15 🔹	
Google Chrome Install Google Chrome	Account:			Set
lo Results			OK Cancel	Apply

	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. Com	nand line: reg add HKLM\software\Microsoft\Windows\CurrentVersion\Policies\System /V
	EnableCursorSuppression /t Reg_DWORD /d 0 /f
3. Disab	le in 64 Bit Redirection: Check this box.
Properties Options	
Type:	Run Command Line
Description:	Enable Mouse Cursor
bootipion.	
Command line:	
Output to task sequer	nce varable:
Disable 64-bit file :	system redirection
Start in:	Browse
Package:	
	Browse
The set for the	15 1
Time-out (minutes) Run this ster. as the): <u>15 </u>
Time-out (minutes) Run this step as th Account:	e): 15
Time-out (minutes Run this step as th Account:): he following account
Time-out (minutes Run this step as th Account:): 15 ¢- he following account

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.

Properties	Options		
Type:		Restart Computer	
Name:		Restart Computer	
Descriptio	on:	,	
			1
Specify w The b The c Notify	what to run after noot image assig currently installed the user before	restart: ned to this task sequence d default operating system restarting	

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

10.0	Type:	Run Command Line		
dd • Kemove (@) (@)	Name:	CS Handoff		
	Description:			~ >
Apply Operating System Modified	Command line:			
Apply Network Settings Modified	cfi_launch.exe			^
Setup Operating System Setup Windows and Configuration Manage Disable Seep Finable Mouse Cursor Offine Application Instal 1 Offine Application Instal 2 Alignment	r Output to task seque ☑ Disable 64-bit file Start in: d	ence variable:		Browse
Restart Computer	Package:			
CS Handoff				Provino
Restart Computer	Time-out (minute	is):	15	Browse
CS Handeff C Relat Computer	Time-out (minute Run this step as Account:	se): the following account	15 ()	Browse Set

Set time Script

This script is used to change the time of the system being image to the time of a server or system that is local at the customer site. This fixes issues with time being out of date especially with systems that don't have a domain join task and or a few tasks in Post Delivery.

- a. **Type:** Run PowerShell script
- b. Name: Change Time to Local time.
- c. Command line: time.ps1
- d. PowerShell execution Policy: bypass
- e. Parameters: configure the server's name you want the system to set its time too.
- f. Package: Dell CFI Tool Kit

Properties Options			
Туре:	Run PowerShell Script		
Name:	Change Time to SMS Server		
Description:			\$\lambda \lambda \l
Select a package	with a PowerShell script:		
Package:			
Z000000D, DELL	ConfigMgr BIF Toolkit V2	Browse	
Script name:			
time.ps1			
Enter a PowerS	ell script:		
Add Script	Script status:	lo script specified.	
Parameters:			
sms01.mattaiguru.co	1		
PowerShell execution	policy: Output to task seque	ence variable:	
Bypass	~		
Start in:			Browse
Time-out (minutes			15 🜲
Run this step as t	e following account		
Account:			Set

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.

🗄 🐻 Po	st Deliv	ery		
-0	Change	Time to	SMS	Ser
	1.11			

ver

This task will put a message box on the screen reminding the person turning the on to plug a network cable into the machine so the task sequence will not fail a reimaged. It will sit at this screen till ok button is clicked.	k will put a message box on the screen reminding the person turning the machine oblg 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.		
Please ensure you have connected the machine to power and a network cable before clicking OK Correlation of the securities of the securi	Please ensure you have connected the machine to power and a network cable before clicking OK ershell Script reshell Script reshell Script Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 nell script: Script status: No script specified. policy: Output to task sequence variable: Browse t I5	This ta on to	ask will put a message box on the screen reminding the person turning the mach plug a network cable into the machine so the task sequence will not fail and ne reimaged. It will sit at this screen till ok button is clicked.
Image: Status: No script specified.	Please ensure you have connected the machine to power and a network cable before clicking OK ox rershell Script rershell Script Run PowerShell Script Run PowerShell Script rework Warning rewith a PowerShell script: Script status: No script specified. script status: No script specified. script status: No script specified. script status: Browse c 15 browse bro		
Please ensure you have connected the machine to power and a network cable before clicking OK Command line: networkingwarning.ps1 Powershell execution policy: bypass Package: Choose the Dell Tool Kit Package Type: Run PowerShell Script Name: Network Warning Description: © Select a package with a PowerShell script: Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: networkwarning.ps1 Enter a PowerShell script: Add Script Script status: No script specified. Parameters: PowerShell execution policy: Qutput to task sequence variable: Bypass Start in: Time-out (minutes):	Please ensure you have connected the machine to power and a network cable before clicking OK ershell Script : networkingwarning.ps1 ecution policy: bypass se the Dell Tool Kit Package Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 nell script: Script status: No script specified. policy: Output to task sequence variable: policy: Output to task sequence variable: policy: 15 re following account		2 Warning X
ox 1. Type: Run Powershell Script 2. Command line: networkingwarning.ps1 3. Powershell execution policy: bypass 4. Package: Choose the Dell Tool Kit Package Type: Run PowerShell Script Name: Network Warning Description: © Select a package with a PowerShell script: Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: networkwarning.ps1 Enter a PowerShell script: Add Script Script status: No script specified. Parameters: Stat in: Stat in:	ershell Script : networkingwarning.ps1. seation policy: bypass set the Dell Tool Kit Package Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse a1 nell script: Script status: No script specified. policy: Output to task sequence variable: Browse to task sequence variable: Browse to task sequence variable: Browse to task sequence variable: Browse to task sequence variable: Browse to task sequence variable: Browse to task sequence variable: Browse brow		Please ensure you have connected the machine to power and a network cable before clicking OK
1) Type: Run Powershell Script 2) Command line: networkingwarning.ps1 3) Powershell execution policy: bypass 4) Package: Choose the Dell Tool Kit Package Type: Run PowerShell Script Name: Network Warning Description:	ershell Script : networkingwarning.ps1 secution policy: bypass se the Dell Tool Kit Package Run PowerShell Script Network Warning e with a PowerShell script: CorfigMgr BIF Toolkit V2 Browse a1 hell script: Script status: No script specified. policy: Output to task sequence variable: policy: Output to task sequence variable: policy: 15 hell script h		ОК
2) Command line: networkingwarning.ps1 3) Powershell execution policy: bypass 4) Package: Choose the Dell Tool Kit Package Type: Run PowerShell Script Name: Network Warning Description:	retworkingwarning.ps1 excition policy: bypass set the Dell Tool Kit Package Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: policy: Output to task sequence variable: Browse t f5 hell script	1) Type: Run Poy	wershell Script
 3) Powershell execution policy: bypass 4) Package: Choose the Dell Tool Kit Package Type: Run PowerShell Script Name: Network Warning Description: @ Select a package with a PowerShell script: Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse 6) Select a package with a PowerShell script: Package: Z00000D, DELL ConfigMgr BIF Toolkit V2 Browse 9) Select a PowerShell script: Package: Z00000D, DELL ConfigMgr BIF Toolkit V2 Browse 9) Enter a PowerShell script: Add Script Script status: No script specified. Parameters: Queput to task sequence variable: Bypass Stat in: Time-out (minutes): 	ecution policy: bypass se the Dell Tool Kit Package Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: v 15 te following account	 Command lin 	ie: networkingwarning.ps1
*) Package: Type: Run PowerShell Script Name: Network Warning Description:	Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse a1 hell script: Script status: No script specified. policy: Output to task sequence variable: r t In the sequence variable: f Interview of the sequence variable: It is the sequence variable: Toolkit V2 Browse t Interview of the sequence variable: It is the sequence variable: <	3) Powershell ex	xecution policy: bypass
Type: Run PowerShell Script Name: Network Warning Description:	Run PowerShell Script Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse \$1 bell script: Script status: No script specified. Policy: Output to task sequence variable: Policy: Output to task sequence variable: Policy: Brows c 15 e following account	4) Package: CNO	Jose the Dell TOOL KIL Package
Name: Network Warning Description:	Network Warning e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. I policy: Output to task sequence variable: I policy: Output to task sequence variable: I policy: I policy: <	Туре:	Run PowerShell Script
Description:	e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Browse c. 15 e following account	Name:	Network Warning
Select a package with a PowerShell script: Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: networkwarning.ps1 Center a PowerShell script: Add Script Script status: No script specified. PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Browse c. 15 e following account	Description:	
Select a package with a PowerShell script: Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: networkwarning.ps1 O Enter a PowerShell script: Add Script Script status: No script specified. Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	e with a PowerShell script: ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Browse Comparison of the sequence variable of the sequence varia		
Package: Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: networkwaming.ps1 Browse O Enter a PowerShell script: Add Script Script status: No script specified. Parameters:	ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Browse Browse t. 15 he following account	Select a packa	age with a PowerShell script:
Z000000D, DELL ConfigMgr BIF Toolkit V2 Browse Script name: Image: No script status: Image: Image: No script specified. Image: No script specified. Parameters: Image: No script specified. PowerShell execution policy: Output to task sequence variable: Bypass Image: Start in: Time-out (minutes): Image: No script section	ConfigMgr BIF Toolkit V2 Browse s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Brows t:	Package:	
Script name: networkwaming.ps1 Enter a PowerShell script: Add Script Script status: No script specified. Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Brows : 15 he following account	2000000 DEL	L ConfigMgr BIF Toolkit V2 Browse
networkwaming.ps1 Enter a PowerShell script: Add Script Script status: No script specified. Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	s1 hell script: Script status: No script specified. policy: Output to task sequence variable: Brows c. 15 he following account	200000D, DEL	
O Enter a PowerShell script: Add Script Script status: No script specified. Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	hell script: Script status: No script specified. policy: Output to task sequence variable: Browse : 15	Script name:	
Add Script Script status: No script specified. Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	Script status: No script specified.	Script name: networkwarning.	.ps1
Parameters: PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	Policy: Output to task sequence variable: Browse t: 15 Policy: 15 Policy: 0 Policy: 0 Policy: 15 Policy: 1	Script name: networkwarning,	.ps1 Shell script:
PowerShell execution policy: Output to task sequence variable: Bypass Start in: Time-out (minutes):	Policy: Output to task sequence variable: Browse E. 15 Policy: Dutput to task sequence variable: Policy: Dutput to task sequence variable: Policy: Pol	Script name: networkwarning, Enter a Powers Add Script	.ps1 'Shell script: Script status: No script specified.
PowerShell execution policy: Output to task sequence variable: Bypass ✓ Start in:		Script name: networkwarning, Enter a Powers Add Script	.ps1 "Shell script: Script status: No script specified.
Bypass Culput to task occupation of variable. Start in:	Brows : I5 ie following account	Control of the second s	.ps1 -Shell script: Script status: No script specified.
Start in:	: 15	Script name: networkwaming, Enter a Power: Add Script Parameters: PowerShell execution	ps1 Shell script: Script status: No script specified. On policy: Output to task sequence variable:
Time-out (minutes):	E following account	Control of the security of the	.ps1 rShell script: Script status: No script specified. on policy: Output to task sequence variable:
Time-out (minutes):	te following account	Courses of the securition of t	.ps1 rShell script: Script status: No script specified. on policy: Output to task sequence variable:
	ne following account	Script name: networkwaming, Enter a Power: Add Script Parameters: PowerShell executio Bypass Start in:	ps1 rShell script: Script status: No script specified. on policy: Output to task sequence variable: B
	ne following account	Script name: networkwaming. Enter a Power: Add Script Parameters: PowerShell executio Bypass Start in: Time-out (minute:	ps1 rShell script: Script status: No script specified. on policy: Output to task sequence variable: s):
Run this step as the following account		Script name: networkwaming, Enter a Power: Add Script Parameters: PowerShell executio Bypass Start in: Time-out (minutes)	.ps1 rShell script: Script status: No script specified. on policy: Output to task sequence variable: s): B

Integrating Config Manager In the Dell Factory

Page 26

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.

Туре:	Run Command Line	 		
Name:	Ping Delay			
Description:	I			~
Command line:				
ping.exe 127.0.0.1	1 -n 30			^
				~
Output to task sequ	uence variable:			
Disable 64-bit fi	le system redirection			
itart in:				Browse
Package:				
				Browse
_				
Time-out (minut	es):	15	*	
Run this step as	es): s the following account	15	A V	

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

ce Task Sequence Edi	tor	-	- 🗆)
Properties Options				
Type:	Run Command Line			
Name:	CFI Cleanup			
Description:				~
Command line:				-
cfi_cleanup.b	at		~	
			\sim	
Output to task seque	nce variable:			
Disable 64-bit file	system redirection			
	10. D			
	ei vcn		srowse	-
Package:				
		E	Browse	
Time-out (minute:	i): [15	*		
Run this step as t	he following account			
Account:				
	OK Ca	ancel	Apply	
Disable this step				
Success codes:	0 3010			
Continue on error				
👔 Add Condition 👻	🗙 Remove 🗙 Remove All 🎉 Cut 🛅 Copy 💼 Paste - 🗊 GB			
	There are no items to show in this view.			





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: setcnamest.ps1
- 3. PowerShell execution policy: bypass
- 4. Package: Dell CFI Tool Kit

Туре:	Run PowerShell Script	
Name:	Computer Name set to Service Tag	
Description:		^
		~
Select a package	with a PowerShell script:	
Package:		
Z000000D, DELL C	onfigMgr BIF Toolkit V2 Browse	
Script name:		
setcnamest.ps1		
Enter a PowerShe	Il script:	
Add Script	Script status: No script specified.	
Parameters:		
PowerShell execution p	olicy: Output to task sequence variable:	
Bypass	×	
Start in:		Browse
Time-out (minutes):		15
Run this step as the	following account	
Account:		Set

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 co



Computer Naming Option 2

Setting Computer name to Asset 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 PowerShell Script

- 1. Name: Set Computer Name to Asset Tag
- 2. Command line: setcnameat.ps1
- 3. PowerShell execution policy: bypass
- 4. Package: Dell CFI Tool Kit

Туре:	Run PowerShell Script	
Name:	Computer Name set to Asset Tag	
Description:		^
Select a package	with a PowerShell script:	
Package:		
Z000000D, DELL C	onfigMgr BIF Toolkit V2 Browse	
Script name:		
setcnameat.ps1		
 Enter a PowerShe 	Il script:	
Add Script	Script status: No script specified.	
Parameters:		
PowerShell execution p	olicy: Output to task sequence variable:	
Bypass	×	
Start in:		Browse
Time-out (minutes):		15 🚖
Run this step as the	following account	
Account:		Set

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 3

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

🔀 Enter Computer Name	×
Computer name:	
	OK

- 1. Type: Run PowerShell Script
- 2. Name: Prompt for Computer Name
- 3. Command line: inputcname.ps1
- 4. PowerShell execution Policy: bypass
- 5. Package: Dell CFI Tool Kit

Name:	Prompt for computer name
Description:	Will Prompt for the computer name and then change it.
0.00	
 Select a pack 	cage with a PowerShell script:
Package: Z000000D, DE	LL ConfigMgr BIF Toolkit V2 Browse
Script name:	
inputcname.ps	1
-	
Enter a Powe	erShell script:
O Enter a Powe	erShell script: Script status: No script specified.
O Enter a Powe Add Script.	erShell script: Script status: No script specified.
O Enter a Powe Add Script.	erShell script:
O Enter a Powe Add Script. Parameters:	erShell script: Script status: No script specified.
O Enter a Powe Add Script. Parameters:	arShell script: Script status: No script specified.
O Enter a Powe Add Scopt Parameters: PowerShell execut	arShell script: Script status: No script specified. tion policy: Output to task sequence variable:
O Enter a Powe Add Scopt. Parameters: PowerShell execut Bypass	erShell script: Script status: No script specified. tion policy: Output to task sequence variable:
O Enter a Power Add Script. Parameters: PowerShell execut Bypass Itart in:	erShell script: Script status: No script specified. tion policy: Output to task sequence variable: Browse Browse
Enter a Power Add Script. Parameters: PowerShell execut Bypass Start in:	erShell script: Script status: No script specified. tion policy: Output to task sequence variable: Browse
O Enter a Power Add Script. Parameters: PowerShell execut Bypass itart in: Time-out (minut)	arShell script: Script status: No script specified. tion policy: Output to task sequence variable: V Browse tes): 15
O Enter a Power Add Sonpt. Parameters: PowerShell execut Bypass Start in: Time-out (minut	erShell script: Script status: No script specified. tion policy: Output to task sequence variable: Browse tes): 15
O Enter a Power Add Scopt Parameters: PowerShell execut Bypass Start in: Time-out (minut Run this step a	erShell script: Script status: No script specified. tion policy: Output to task sequence variable: Browse tes): [15] s the following account

Integrating Config Manager In the Dell Factory Page 34

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.

Post Delivery
 Change Time to SMS Server
 Network Warning
 Prompt for computer name
 Restart Computer
 Ping Delav

Computer Naming Option 4

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 PowerShell script
- 2. Name: change computer name to variable
- 3. **Command line:** setcnamevar.ps1
- 4. PowerShell execution Policy: bypass
- 5. Package: Dell CFI Tool Kit

Туре:	Run PowerShell Script		
Name:	rename computer to variable		
Description:	Will Prompt for the computer na	ame and then change it.	\sim
Select a packa	je with a PowerShell script:		
Package:			
Z000000D, DEL	ConfigMgr BIF Toolkit V2	Browse	
Script name:			
setcnamevar.ps1			
O Enter a Power	hell script:		
Add Script	Script status:	No script specified.	
Parameters:			
PowerShell executio	n policy: Output to task s	sequence variable:	
Bypass	~		
Start in:			Browse
Time-out (minute):		15
Run this step as	he following account		
Account:			Set

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)

You no longer need to add the recovery partition via your task sequence it can now be handled by the factory process. Which not only will create the recovery partion but also dism the correct drivers in the recovery pe wim so it can reboot to the recovery enviroment successfully. All you need to currently do is to request the PM add this feature to your project now. If you modified the steps in your task sequence previously please remove them and request the project manager adds the recovery partition creation to your project. If you don't request the recovery partition the standard configuration is listed below.

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

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

Task Sequences		Crea	te
🗲 🄶 🔹 🖺 🛝 🔹 Software Ubrary	 Over 	view +	Operat
oftware Library	4	Task Se	equences
Packages		Search	1
Application Requests		lcon	Name
[4] Global Conditions		Ð	Task Se
App-V Virtual Environments		自	Windo
Nindows Sideloading Keys			Windo
App Configuration Policies		Ē	Windo
+ 📫 Software Updates		E	Windo
Operating Systems			cc offi
Drivers		Win	dows 10
Driver Packages			
System Images		Sum	mary
Soperating System Upgrade Packag	es	Na	me:
Boot Images	F	Pa	scription: kane ID:
Task Sequences		Pa	ckage Typ
			and the second second

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

Sanó dore reda	
Cleates needs used to deploy operating systems without network access.	
🔿 Bostable media	
Onates ends used to deploy operating systems using ConfigNgr infrastructure.	
Casture medie	
Ceates reduced to capture an specifing system displayment image from a reference corry	p.
O Predaged roads	
Center a file to be predaged on a new hard blue that includes an operating rystem image.	
Select this checkbox to enable-unattentied operation surface designment. An unattended operation	
system disployment alons not prompt for network configuration or optional task sequences.	2

🖂 Alow unstended operating system deployment.

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 Specify the media type

Removable	e USB drive	
Drive:		
Forma	t removable USB drive (FAT32) and make bootable	
CD/DVD s	et	
CD/DVD s Media size	et :: Unlimited	olo piacos of modia ar
CD/DVD s Media size Specify the nam equired, a sequ Media file:	et E Unimited e and path where the output files will be written. If multi ence number will be appended to the name for each pie C:\temp\delcfi iso	ple pieces of media ar ce of media. Browse
CD/DVD s Media size ipecify the nam equired, a sequ Media file: pecify a custor	et :: Unlimited :: and path where the output files will be written. If multi ence number will be appended to the name for each pic c:\temp\delcfiso I location for staging temporary data:	ple pieces of media ar cce of media. Browse

ISO Creation steps for upload to Dell (Continued)

Remove protect media with a password button and click next.

Select security setti	ngs for the media	1	
Specify a password to prote	ct task sequence media. ssword		
Password: Confirm password:			
Confirm password:			
Select date range for thi	s stand-alone media to be	valid	
Set start date:	2/10/2021		4
Set expiration date:	2/10/2022		

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

Task sequence:	Z0	000047-Windov	vs 10 2004 BIF	DDI Sample	Browse
This task sequence	references the	following conte	nt:		
Filter					
Name	Туре	Package ID	Version	Comment	Dependency
Configuration M	Package	Z000003		This packag	No
Boot image (x64)	Boot Image	Z000005	10.0.1904	This boot im	No
Google Chrome	Package	Z000008			No
filezilla	Package	Z00000A			No
Dell CFI ToolKit	Package	Z00000F			No
Windows 10 Ent	Operating	Z000003C			No
windows 10 200	Package	Z0000050			No

 $\ensuremath{\boxdot}$ Detect associated application dependencies and add them to this media

Click next on Applications and Packages leaving them as Default

Select anni	lication content	bhe of t									
colour upp						Select pa	ckage content to	add			
Select additional included on this	al application content : s stand-alone media.	that is not exp	licitly referenced	i by selected task s	equence to be	Select addition	nal package content that nis stand-alone media.	is not explicitly	referenced by	selected task se	quence to be
Select applicati	ion content:					Select packa	ge content:				
Filter				P	Add	Elter				Ø	Add
Name	Package ID	Version	Size (MB)	Dependency	Remove	Name		Package ID	Version	Size (MB)	
	There are no it	ems to show i	n this view.				There are no iter	ns to show in th	is view.		

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.

Select driver package content to add

Name Padrage ID Venion Size (MB) There are no tense to show in this view.	Remove	Size (MB)	Version	Package ID		
There are no leans to show in this view.			nis view.			Vame
				ms to show in th	There are no	

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.

incort				- 2
Distribution Point	Si	te	Packages	
\\SCCMDP01.abc.com	Z	00	5 of 7	
	a content required by the	task seque	ince:	
elected distribution points containin	ig contone required by the			0
elected distribution points containir filter Distribution Point	Si	te	Packages	P

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

Name Value New> Variable Define the variable and its associated value. Name CEI	>
<new> Variable Define the variable and its associated value. Neme:</new>)
Define the variable and its associated value.	
Name: CEL	
Nama: IFI	_
En Specify the value and the value settings.	
Co Do not display this value in the Configuration Manager console	
	_
Value: True	
Value: True	

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

Detals:	The Create Task Sequence Media Wizard completed successfully
Task sequence media information • Media type: CDVD set • Media asc: DINITION • Colder to stage temporary data: C.Temp • Media label: Configuration Manager • Create autonu ini file: False • Allow unable: Configuration Manager • Create autonu ini file: False • Protect media with password : No • Task sequence: 2000047-Vinidows 10 2004 BIF DDI Sample Task sequence • Variable: CFI=True • Prestart command: No • Distribution point(s): ABCSSCCM ABC.COM • Total size of media conten, MB: 4683 • Media creation log: C:Program Files (A89)Microsoft Configuration Manager Variable: Manager Variability (Manager Variability)	Details: Success: Task sequence media information • Media type: CD/DVD set • Media type: CD/DVD set • Media tase: Unlimited • Output path: E1:offlinemedia/install.iso • Folder to stage temporary data: E:temp • Media label: Configuration Manager • Create autorunin file: False • Allow unattended operating system deployment: Yes • Protect media with password: No • Task sequence: 20000047-V/mdows 10 2004 BIF DDI Sample Task sequence • Variable: CFL=e=e=e • Prestart command: No • Distribution point(s): ABCSSCCM ABC COM • Total size of media content, MB: 4663 • Media creation log: C1Program Files (x88)Microsoft Configuration Manager • Vardia: ConsoleVarbit Ulog/Create TsMedia.log • SHA256 checksums: E1:offlinemedia/install.iso 02CF2DB837DA0D407FB1D73A4995E28E6BF93D33A8F4314D7020ABF6BA51CB50
To change these settings, click Previous. To apply the settings, click Next.	To exit the wizard, click Close.