

Lifecycle Controller with Dell Repository Manager

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1 Introduction

This whitepaper will discuss various ways to update Lifecycle Controller using Dell Repository Manager. There are three different ways to use the update repositories with Lifecycle Controller. The main advantage is to update the server in a Pre-OS environment. The Lifecycle Controller GUI offers a single access point and interface for performing comprehensive platform updates hardware configuration, OS deployments, and diagnostics on Lifecycle Controller. The Lifecycle Controller GUI introduces multiple platform update features, which are designed to simplify, automate, standardize, and secure the update process for IT administrators. Administrators can launch the application by booting the server and pressing and holding the F10 button.

- Selecting updates using Local Drives (CD/DVD/USB)
- Selecting updates using Network Share (CIFS/NFS)
- Selecting updates over Internet (<u>ftp.dell.com</u>)



Create Repository using Dell Repository Manager

Dell Repository Manager is an application that allows you to create customized bundles and repositories on systems running the Microsoft Windows operating system. Following steps will explain about the creation of repository using the Dell Repository Manager.

	ry Manager							least of	•
olication Source	Repository	Bundle Co	mponent	Jobs Help	2				
My Repositories	-								
ly Repositories ew 👻 📔 🛌 Open	1 III Delete	C Refrest	1		😰 View Source	View Dell Online Catalog	Search Dell Support Sit	te 🛛 🛃 Schedule Automatic	Sear
Name	Bundles	Components	Created	Imported	Description				

Figure 1 Dell Repository Manager Console

1. Open the Dell the repository Manager.

Dell Repository Manager Data Center Version	
plication Source Repository Bundle Componer	nt Jobs Help
Welcome × 🚰 My Repositories	
Ay Repositories	🔯 View Source 🛛 🙋 View Dell Online Catalog 🛛 🐉 Search Dell Support Site 🛛 🐉 Schedule Automatic Search
Create New Repository	Imported Description
Dell OpenManage Integration for VMware vCenter inventory Dell M1000e Chassis inventory Dell Generic Inventory Empty (no inventory)	ory task wizard or by selecting update files from the source repository.
obs Queue	Pending for Confirmation: 0 Queued: 0 Completed: 0

Figure 2 Create New Repository

2. On the "My Repositories" tab, Click New -> Create New Repository menu option..

6

2

Welcome x	Dell Repository	Manager	×	
v Repositories	Name and Description	Provide a name and description (optional) for the new repository.		chedule Automatic Searc
	Base Repository	Name:		
time open	Select Brand	New Repository	1	
Name Bune	Select OS	Description:		
Create repositories e	Select Models	This Repository is for R620 Server.		
Import legacy reposi	Select Bundles			
portinget, report	Optional Components			
	Summary			
		Cancel < Back Next >		

Figure 3 Provide Name and Description to the new repository

3. The Create New Repository menu option will pops-up the wizard where to provide few details for creating new repository. Provide the Name and Description for the new repository as shown in the above screenshot. Click "Next" to proceed further.



Dell Repository M	Manager Data Center Version	n		_ _ ×
Application Source R			x	
Application Source R Welcome X My Repositories New Repositories Name Bune Create repositories e Import legacy reposit	Dell Repository Mathematical Name and Description Base Repository Select Brand Select OS Select Models Select Bundles Optional Components Summary	nager Choose the repository that you would like to use as a base for your new repository. Dell Online Catalog Local Source Repositories My Custom Repositories Cancel < Back	X Next >	chedule Automatic Search
Jobs Queue		Pending for-	Confirmation: 0 Que	ued: 0 Completed: 0

Figure 4 Select Base Repository

4. Select the Base Repository with Dell Online Catalog or Local Source Repository or Custom Repositories. In this example, the Dell Online Catalog option is selected as the Base Repository for creating new repository. Click "Next" to proceed further.

Welcome x	Dell Repository Ma	nager	
Welcome × My Repositories New Name Bune Create repositories e Import legacy reposit	Name and Description Image: Comparison of the second sec	Select one or more brands from the list below: Note that the brand list is built from bundles available in the source repository. Server PowerEdge Rack Tower Storage	chedule Automatic Searc
		PowerVault	
		Cancel < Back Next >	

Figure 5 Select Brand Server



5. Select the Brand of Server or Storage for creating new repository and Click "Next" to proceed further.

Welcome x	Dell Repository M	anager	×	
Ny Repositories	Name and Description Base Repository Select Brand	Specify the operating system(s) that you would like to include in your repository.	ch	nedule Automatic Searc
Name Buni	Select OS Select Models Select Bundles Optional Components Summary	 Windows 32-bit Windows 64-bit Linux (32-bit and 64-bit) OS Independent 		
		Cancel < Back Ne	ext >	

Figure 6 Select Operating Systems

6. Select Windows 32-bit operating system for creating the new repository. Lifecycle Controller utilizes Windows DUPs to deploy updates. Click "Next" to proceed further.

Welcome x	Dell Repository Ma	nager ×
Ay Repositories	Name and Description	Specify the Dell system model(s) that you would like to include in your repository. Note that the system model(s) list is built from bundles available in the repository.
New 🔻 📔 🎥 Open 🕴	Base Repository	Include All Models supported by this repository
-	Select Brand	Select Model(s)
Name Bund	Select OS	PowerEdge R410
Create repositories e	Select Models	PowerEdge R415 PowerEdge R420
Import legacy reposit	Select Bundles	PowerEdge R510
import regardy reposi-	Optional Components	PowerEdge R515 PowerEdge R520
	Summary	PowerEdge R610
		PowerEdge R710 PowerEdge R715 PowerEdge R720 PowerEdge R720 PowerEdge R720 PowerEdge R720 PowerEdge R805 PowerEdge R815 PowerEdge R820 PowerEdge R805 PowerEdge R800 PowerEdge R805 PowerEdge R900 PowerEdge R905 PowerEdge R910
		Cancel < Back Next >





7. This shows up the models available for the selected brand. Select the models that you would like to include in your repository. In this example, PowerEdge R620 is selected for the new repository. Click "Next" to proceed further.



Figure 8 Select Bundles

8. Select the bundles from the list of bundles or the Repository Manager will automatically include the most recent bundle for the given platform. Click "Next" to proceed further..



Dell Repository N	Manager Data Center Ve	rrsion	_ - ×
Application Source R		r Managor	x
Welcome x R	Name and Description Base Repository Select Brand Select OS Select Models Select Bundler	Advanced Option – Select optional files: The repository you have selected as the source contains individual update files that are not assigned to any system. You can choose to browse and manually select from these files to ad them to your repository. You may wish to do this if you are attempting to locate individual update files for older devices or non-system files (e.g., updates for Dell OpenManage Server Administrator).	chedule Automatic Search
Import legacy reposi	Optional Components	0 of 8 Optional Files Selected	
	Summary	Select Components	
		Cancel < Back Next >	
Jobs Queue		Pending for Confirmation: 0	Queued: 0 Completed: 0

Figure 9 Choose Optional Components

9. Choose Optional Components if necessary and Click "Next" to proceed further.

Welcome x	Dell Reposito	ory Ma	nager	×	
Av Repositories	Name and Description	~			chedule Automatic Searc
viy Repositories	Base Repository	~	Name & Description:		chequie Automatic Search
New • I I I I I I I I I I I I I I I I I I	Select Brand	~	Name: New Repository		
Name Bune	Select OS	~	Description: This is my New Repository for Rozo		
Create repositories e	Select Models	~	++		
Import legacy reposi	Select Bundles	~	Source Repository: ++		
	Optional Components	~	Path:		
	Summary		++		
			Operating System:		
			N/A		
			Model(s):		
			(++		
			Cancel < Back Finish		

Figure 10 Displays Summary Information

10. It displays the summary information and Click "Finish" to create new repository.

Dell Repository Manager Da	ita Center Ver	sion							
oplication Source Repository Bun	idle Compo	nent Jobs Help							
Welcome 🗴 🚘 My Repositories	New Rep	pository ×							
New Repository		1			T Sava	Pup a	compariso	n 🗰 Brou	antiac
his is my New Repository for R620					A pave	L Null a	companisor	1 Ac clob	erties
Bundles Components									
Tasks: + Add T Delete ++ Clo	one "+ Co	mpare 🌶 Export 🎂 Properties	1 2 Sequen	ce		Sel	ected/Tot	al :	0/1
Filter Bundles by:	Bundles	(filtered results):				Tot	al selected	d size: 0) Bytes
Select a filter		Name	Version	OS	Date	Size	Author	Generation	Brar
✓ Keyword Search		System Bundle (Windows)PER620 v482	B272465.482	Windows x32	11/8/2013	Updating	DELL	12G	Pc
									-
> Brand									
Supported Platforms									
> Operating System	11								
> Release Date									
Manage Save Reset	1								
					D			0.5	
Jops Queue					Penuing for	commation:	o Queuea:	o completed: (-

Figure 11 Created New Repository with Bundles

The above screenshot displays new repository created with the system bundles.



Selecting updates using Local Drives (CD/DVD/USB)

Lifecycle Controller allow the administrators to update the platform by using CD, DVD, USB drive or Local Virtual Drive. In this example, we are updating the platforms using Virtual Drive. Virtual Drive can be created via iDRAC and upload the folder through virtual drive where the repository having Dell Update Packages and catalog.xml file.

The below procedure is for creating DUP's and Catalog.xml using the Dell Repository Manager.

Dell Repositor	y Manager	Data Center \	/ersion										□ ×
Application Source	Repository E	Bundle Com	ponent J	lobs Help									
My Repositories													
My Repositories	💼 Delete	C Refresh			C View Source	Q View	Dell Online Catal	log	🐉 Search Dell Su	ipport Site	🐕 Schedul	e Automatic	: Search
Name	Bundles C	omponents	Created	Imported	Description								
Import legacy repo	sitories (those c	reated in a pre	vious versio	n of Dell Repr	ository Manager)	by uploadiny	; them into the	databa	se for this version				
Jobs Queue									Pending for	Confirmation:	0 Queued: 0	Completed	: 0 🔨

Figure 12 Dell Repository Manager Console

3

1. Open the Dell the repository Manager.



Dell Repository Manager Data C									
plication Source Repository Bundle	Compo	nent Jobs Help							
🔒 My Repositories 🛛 🎽 My Repository	×								
Ay Repository						■ Save	1 Run a	comparison	Properties
Bundles Components									
Tasks: + Add Delete ++ Clone	4* Co	mpare 🛪 Export 🎂 Properties	1 1 Sequenc				Sel Tot	ected/Total : tal selected size:	0/ 0 Byte
Select a filter	Bundles	Name	Version	OS	Date	Size	Author	Generation	Brand
✓ Keyword Search		System Bundle (Windows) PER720 v480	B266892.480	Windows x32	9/30/2013	Updating	DELL	12G	PowerEdge
> Brand									
Supported Platforms									
Operating System									
> Release Date									
Manage Save Reset									
obs Queue					P	ending for Cor	firmation:	0 Queued: 0 Cor	npleted: 0 🧳

Figure 13 Select Bundles in Dell Repository Manager

2. Create Repository and add the bundles to the repository. Choose the bundles that are supported to the current platform where Lifecycle Controller is running. You can create multiple bundles with the same repository.

Dell Repository Manager Data C	enter Vers	sion							>
Application Source Repository Bundle	Compoi	nent Jobs Help							
My Repository						A Save	🏦 Run a	comparison	Properties
Tasks: + Add Tasks: + Clone Filter Bundles by:		mpare A Export & Properties (filtered results):	\$ Sequen	e			Sel Tot	ected/Total : tal selected size	1/1 : 2.46 GB
Select a filter 🔹		Name	Version	os	Date	Size	Author	Generation	Brand
V Keyword Search		System Bundle (Windows) PER720 v480	B266892.480	Windows x32	9/30/2013	2.46 GB	DELL	12G	PowerEdge
> Brand		Dell Repository Manag	ger Save R		~				
> Supported Platforms									
 > Operating System > Release Date 		Save repository to:			Browse				
		What to Save:							
		Full Repository (Catalog file and Gatalog file and	d all the update	packages)					
		Advanced							
		Change base location in cat	alog XML (
Managa Sava Peret		O ftp.dell.com							
ivianage Save Reset		0							
Jobs Queue		🗐 Generate report 👔		Cancel	Save	nding for Co	onfirmation:	0 Queued: 0 Co	mpleted: 0 🔥
		Warning: if you are saving the rep- usage, make sure to exclude 64bit	ository for Dell bundle(s) and	Lifecycle Contro component(s).	oller				

Figure 14 Save the repository

3. Select the bundle and click "Save" to download the Full Repository that contains both Catalog file and the Dell Update Packages or the catalog.xml only. Save repository to the local folder by selecting the browse button. Click "Save" button to download the packages. It will start downloading the Dell Update Packages along with the Catalog.xml.

The repository folder will contain the Catalog.xml and the corresponding Dell Update Packages.

						_ 0	×
Bundles	>			•	Search Bundles		٩
Organize 👻 Include in	library 👻 Share with 👻 Burn	New folder					?
Favorites	Name	Date modified	Туре	Size			^
Desktop	FOLDER01478021M	10/16/2013 12:40	File folder				
Downloads	FOLDER01486652M	10/16/2013 12:32	File folder				
Recent Places	FOLDER01486655M	10/16/2013 12:32	File folder				
	FOLDER01490278M	10/16/2013 12:38	File folder				
词 Libraries	FOLDER01520893M	10/16/2013 12:36	File folder				
Documents	퉬 FOLDER01523935M	10/16/2013 12:40	File folder				
J Music	FOLDER01523997M	10/16/2013 12:36	File folder				
Pictures	FOLDER01524072M	10/16/2013 12:38	File folder				
Videos	FOLDER01529244M	10/16/2013 12:37	File folder				
	🎉 FOLDER01534713M	10/16/2013 12:36	File folder				
🖳 chandrasekhar_g V	FOLDER01571936M	10/16/2013 12:45	File folder				
🏭 Windows (C:)	FOLDER01572922M	10/16/2013 12:35	File folder				
👝 System Reserve (FOLDER01572923M	10/16/2013 12:35	File folder				
👝 New Volume (F:)	FOLDER01648077M	10/16/2013 12:45	File folder				
CD Drive (G:)	FOLDER01710957M	10/16/2013 12:45	File folder				
👝 Local Disk (Q:)	Catalog.xml	10/16/2013 12:46	XML Document	2,851 KB			E
CHANDRASEKH/	invCol_9JMG1.exe	10/16/2013 12:46	Application	46,276 KB			
-	PER720-WIN-PH7113A.XML	10/16/2013 12:46	XML Document	18 KB			-
117 items							

Figure 15 Display the contents of the saved repository

4. The saved repository folder is copied to either through CD, DVD, USB or by creating Virtual USB Drive through iDRAC. Once uploaded the saved repository folder from the Virtual USB Drive, go to the Unified Server Configuration by pressing F10 on the BIOS menu. It will start the Lifecycle Controller and click the "Firmware Update" to launch the firmware update.



DELL LIFECYCLE CO	ONTROLLER UNIFIED SERVER CONFIGURATOR Help About Exit
Home Lifecycle Log Firmware Update Hardware Configuration OS Deployment Platform Restore Hardware Diagnostics Settings System Setup	Firmware Update page to perform or rollback an update, or to view the current firmware versions. Launch Firmware Update Launch Firmware Rollback View Current Versions
PowerEdge R620 Service Tag: GG4ZWX1	

Figure 16 Launch firmware update

5. Click on the firmware update and it shows up the selection of the local repository.



Figure 17 Select the update repository for Local Drive

6. Select the local drive (CD or DVD or USB) and click "Next" to proceed further.



	ONTROLLER UNIFIED SERVER CONFIGURATOR	Help About Exit
Select Update Repository 🗸	Firmware Update: Launch Firmware Update	
Enter Access Details Select Updates	Step 2 of 3: Enter Access Details Select the local drive. Local Drive REPOSITORY (Virtual CD) Catalog Location or Update Package Path	
PowerEdge R620 Service Tag : GG4ZWX1	Cancel	Back Next

Figure 18 Enter the path of saved repository location

7. In the above screen, select the local drive where the update packages are available or else provide the path for catalog.xml location if the file is available in different location. In this example, the catalog.xml is available on the same drive where packages are going to be updated. So the catalog location need not specify if the Catalog.xml file is available in the same location. The Lifecycle controller will pick up catalog.xml file in the default folder. Click "Next" to go to the next screen.

DE LE UFECYCLE O	ONTROLLER UNIFIED SERVER CONFIGURATOR	Help About Exit
Select Update Repository	Firmware Update: Launch Firmware Update Step 2 of 3: Enter Access Details Select the local drive. Information Verify Selection Please wait while the image in the selected device is verified. This operation can take up to 2 minutes.	
Service Tag: GG4ZWX1	Cancel B	ack Next

Figure 19 Verify the image for selected device

8. It displays the popup "Please wait the image in the selected device is verified" for verifying the selected devices.



Select Update Repository 🖌 🖌	Firmware Update: Launch Firmware	Update	
inter Access Details 🛛 🖌	Stop 3 of 3: Soloot Lindotop		
Select Updates	Step 5 01 5. Select Opuates		
	Use the table to select available updates.		
	Source: USB or CD or DVD (REPOSITORY (Virtual CI	⊃):\)	
	Release Date: 2013-09-24		
	Available System Updates		
	Component	Current	Available
	Enterprise UEFI Diagnostics, 4225A2, 4225.4	4225A2	4225A2
	OS Drivers Pack, 7.2.1.4, A00	7.2.1.4	7.3.0.12
	Lifecycle Controller	2.0	1.1.5.165
	E BIOS	1.6.0	1.6.0
	Broadcom Gigabit Ethernet BCM5720 -	7.4.8	7.6.15
	System will reboot after selected updates are	applied.	

Figure 20 Display the available system updates

9. After verifying of the selected device, the Firmware Update displays the selected devices that are applicable for the current platform and it shows the current and previous versions of each component. Click "Apply" to update the platform.

Automated Task Application		Help About
BIOS Update	BIOS Update	
	Current Status	Task in Progress
	Task Time Limit	5 mins
	Elapsed Time	00:09
	Tank	4 - 14
	Total Elapsed Time	00:00:09
		0.00.00
	Tasks are running normally.	
	WARNING: Do not reboot or power off the system until sy	rstem reboots on its own.
	L	
UEFI v2.3 Model Name : Pow Service Tag : GG42	ZWX1	



The above figure shows the progress of BIOS update for the current platform.



4 Selecting updates using Network Share (CIFS/NFS)

You can use the network share either CIFS or NFS for updating the platform. Copy the saved bundles and the catalog.xml folder in the network share.



Figure 22 Select the update repository for Network Share

1. Select the Network Share to update the platform. Click "Next" to continue.

	NTROLLER UNFIED SERVER CONFIGURATOR	Help About Exit
Select Update Repository 🖌	Firmware Update: Launch Firmware Update	
Enter Access Details Select Updates	Step 2 of 3: Enter Access Details Select the Network Share. • CFS • NFS Share Name Omain and User Name Password Catalog Location or Update Package Path Test Network Connection	
PowerEdge M620 Service Tag : JIRSB2S	Cancel	Back Next



2. On the screen, select either CIFS or NFS to access the updates over the network share. In this example, I choose the option "CIFS" and provided the share name where the updates are available and also provided the Update Package path to "bios.exe" for updating BIOS. Click Next to continue.

	DNTROLLER UNIFIED SERVER CONFIGURATOR Help About Exit	
Select Update Repository 🗸	Firmware Update: Launch Firmware Update	
Enter Access Details		
Select Updates	Step 2 of 3: Enter Access Details	
	Select the Network Share.	
	Information	
	Firmware Update	
	Connecting to Network Share	
PowerEdge M620 Service Tag : .11RSB2S	Cancel Back Next	

Figure 24 Connecting to the network share

3. It pops up message "Connecting to Network Share" to connect CIFS Network share.

Select Update Repository	Firmware Update: Laune	ch Firmware Update	
Select Updates	Step 3 of 3: Select Update	es	
	Use the table to select available upo Source: CIFS (\\10.94,197.56\raghu\o Release Date: 2013-09-23 Available System Updates	lates. dups\q4\bios\bios.exe)	
	Component P BIOS	Current 1,6,1	Available 2.1,3
	System will reboot after set	ected updates are applied.	



4. It launches the firmware update page where it shows the information about the current and previous available update for BIOS. Click Apply to update the platform. It may require rebooting the server.



Selecting updates over Internet (<u>ftp.dell.com</u>)

The updates can be downloaded over the internet via <u>ftp.dell.com</u> or provide the local configured ftp server.

1. Select the "ftp server" on the launch firmware page.

5

DELL LIFECYCLE O	ONTROLLER UNIFIED SERVER CONFIGURATOR	Help About Exit
Select Update Repository Enter Access Details Select Updates	Firmware Update: Launch Firmware Update Step 1 of 3: Select Update Repository Select the repository location for the catalog and update packages. FTP Server Local Drive(CD or DVD or USB) Network Share Make sure the network connection is not disconnected during firmware update. 	
PowerEdge M620 Service Tag : J1RSB2S	Cancel Ba	ack Next

Figure 26 Select the update repository for FTP server

2. Click on the "Launch Update Firmware" where you will find the option of selecting the "FTP Server" for updating through <u>ftp://ftp.dell.com/</u>. Click "Next".



Select Update Repository 🛛 🗸	Firmware Update: Launch Firmware Update		
Enter Access Details			
Select Updates	Step 2 of 3: Enter Access Details		
	FTP Server Settings		
	Address [ftp.dell.com		
	User Name		
	Password		
	Catalog Location or Update Package Path		
	Proxy Settings		
	r Enable Settings		
	Server		
	Port		
	User Name		
	Password		
	Type HTTP		
	Test Network Connection		

Figure 27 Enter details of FTP server

3. This page provides you the option to enter the details of the ftp server. In this case, we choose to enter the default server to get the updates for the current platform. Also you can provide the local ftp server which you are configured on your box by providing the username, password and catalog locaiton where the catalog is stored. Incase if your server is having any proxy settings you can also provide the proxy setting details by enabling the "Enable Settings" option. Click "Next".

	ONTROLLER UNIFED SERVER CONFIGURATOR	Help About Exit
Select Update Repository 🗸	Firmware Update: Launch Firmware Update	
Enter Access Details Select Updates	Step 2 of 3: Enter Access Details FTP Server Settings Information Image: Server Setting Server Server Server Post Server Password Type HTTP Test Network Connection	
PowerEdge R620 Service Tag : GG4ZWX1	Cancel	Back Next

Figure 28 Verify the image for selected device

4. The dialog pops up to verify the available platform information at the remote repository.

DOLL LIFECYCLE CO	ONTROLLER UNIFIED SERVER CONFIGURATOR Help About Exit			
Select Update Repository 🗸 🗸	Firmware Update: Launch Firmware Update			
Enter Access Details				
Select Updates	Step 2 of 3: Enter Access Details			
	FTP Server Settings			
	Information			
	Firmware Update			
	Verifying the signature of the Catalog			
	Server			
	Password			
	Type HTTP			
PowerEdge R620 Service Tag:GG4ZWX1	Cancel Back Next			

Figure 29 Verify the catalog signature

It also verifies the catalog signature on the remote location.

Enter Access Details 🖌	Step 3 of 3: Select Updates Use the table to select available updates. Source: FTP (\\ftp.dell.com\) Release Date: 2013-09-04 Available System Updates			
Select Updates	Step 3 of 3: Select Updates Use the table to select available updates. Source: FTP (\\ftp.dell.com\) Release Date: 2013-09-04 Available System Updates Conservat			
	Use the table to select available updates. Source: FTP (\\ftp.dell.com\) Release Date: 2013-09-04 Available System Updates			
	Source: FTP (\\ftp.dell.com\) Release Date: 2013-09-04 Available System Updates			
	Release Date: 2013-09-04 Available System Updates			
	Available System Updates			
	Available System Opdates			
	Commence			
	Component	Current	Available	
	Enterprise UEFI Diagnostics, 4225A2, 4225.4	4225A2	4225A2	
	M OS Drivers Pack, 7.2.1.4, AUU	7.2.1.4	1.3.0.12	
		2.0	16.0	
	□ BP12G+ 0:1	1.00	1.00	
			1000	
		eren lie el		
	System will reboot after selected updates are a	appileo.		

Figure 30 Display the available system updates



5. Once the verification is done, it displays the available system updates information. This will show the table of components containing the Current and Available versions. Select the components you want to update and Click Apply for update the system.

DVELL LIFECYOLE CO	NTROLLER UNFIED SERVER CONFIGURATOR	Help About Exit
Select Update Repository Enter Access Details Select Updates	Firmware Update: Launch Firmware Update Step 3 of 3: Select Updates Information Image: Comparison of the selected updates are applied. The update duration depends on the size of the update package and the number of components selected. Downloading Update Package 1 of 6	Available 4225A2 7.3.0.12 1.15.165 1.6.0 1.00
PowerEdge R620 Service Tag : GG4ZWX1	Cancel	Back Apply

Figure 31 Download the update packages

6. After clicking Apply, the Lifecycle controller will download the updates and start applying them to your system when it is rebooted. BIOS and Firmware updates generally always require a reboot.



Automatic Update using iDRAC 7 (v1.50.50 or greater)

Remote repository updates is the newest and the most advanced firmware update mechanism to update a wide variety of firmware and applications installed on the PowerEdge server at the click of a button. This feature uses an update repository created using the Dell Repository Manager to download and install the updates. The repository could either be ftp.dell.com or a user generated repository on the local network share. Gone are the days when you had update your PowerEdge server one firmware at a time. Remote repository updates provides a simple and easy way to automatically figure out the latest updates that are available for your PowerEdge server and install it all at once at the click of a button. The Automatic update is available on iDRAC from 12G (For example PowerEdge R720) and above servers.

iDRAC web user interface can used for scheduling automatic updates as shown in the figure(s) below:

stem	Firmware	
gin]. [Role]	Update Rollback	
Server Virtual Console	Firmware Update	
- Power and Temperature - Alerts - First Boot Device	Update Automatic Update	
- Troubleshooting	Enable Automatic Update	
Intrusions	Berver Reboot	💿 Schedule Updates 💿 Schedule Updates and Reboot Server
Logs	Update Repository	
- User Authentication	Catalog Location	
Firmware	Protocol	
-Server Profile	(PAddress.	<i>****</i>
Hardware	Share Name	poooooooo
- Batteries	Domain and User Name	(900000000)
Pans	Password	
- CPO	Catalog Location	******
Memory	Catalog Name (optional)	anno ann an Allanda an
- Front Panel - Network Devices	Test Network Connection	
- Power Supplies - Removable Flash Media	Update Window Schedule	
-Fibre Channel HBA	Current IDRAC Time	2012-12-30 6:48:12
- Storage - Physical Disks	Start: 1:00 AM	
PCIe SSD	Recurrence Pattern	
Controllers	Daily Becurevery 1	week(s) op
	Vveekiv Sundav	Monday Tuesday Wednesday
	Monthly Thursday	Friday Saturday
		Clear Setting Apply

Figure 32 Automatic Update

6

The wireframe above shows the Automatic Update tab with Network share and CIFS selected. The selected recurrence pattern shows the weekly options. Similarly Automatic Updates can also be scheduled through FTP (<u>ftp.dell.com</u>)

Prerequisites for Automatic Update:

- PowerEdge 12G or greater server
- iDRAC7 1.50.50 or greater
- PowerEdge Server access to Network Share or Dell FTP site



7 Summary

Dell provides various tools for applying the Dell Update Packages (DUPs) in various contexts for keeping any server up to date. This technical paper describes recommended method(s) for updating Dell system(s) in various methods using Lifecycle Controller.

