DELL[™] PowerVault[™] DL Backup-to-Disk Appliance Powered by CommVault[™] Simpana[™]

Upgrading from Windows Server 2008 x64 to Windows Server 2008 R2

A Dell Technical White Paper

by

Dell Engineering



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Upgrading from Windows Server 2008 x64 to Windows Server 2008 R2 for CommVault™ Simpana™

Introduction

This document explains how to upgrade a Dell[™] PowerVault[™] DL Backup-to-Disk Appliance Powered by CommVault[™] Simpana[™] from Windows Server 2008 x64 to Windows Server 2008 R2. It details the various prerequisites that must be met prior to the upgrade of the operating system, as well as procedures to be completed after the OS upgrade to get the appliance back to a working state.

NOTE : Dell strongly recommends that you engage Dell Support for assistance during the upgrade of the operating system. If the required steps for the OS upgrade are not followed properly, the DL Backup-to-Disk Appliance could become unusable.

Technical Resources

The following table lists additional documentation available for reference.

Vendor	Document or Resource Title	Location
CommVault	CommVault Simpana 9.0.0 Books Online	documentation.commvault .com/dell/
Dell	Dell PowerVault DL Backup to Disk Appliance Powered by CommVault Simpana User Guide	support.dell.com/manuals

Prerequisites

This white paper assumes that the DL Backup to Disk Appliance has already been configured. The following prerequisites must be met before initiating an upgrade of the operating system:

- Windows Server 2008 x64 Service Pack 2 (SP2)
- For Simpana 8.0, Service Pack 6 (SP6) must be applied
- For Simpana 9.0, Service Pack 2 (SP2) must be applied
 - All Auto Updates should have also been applied
- It is recommended that all disk storage should be provisioned prior to the upgrade.

Note: On the DL2200, CommVault automatic disk provisioning fails under Windows Server 2008 R2 when using any versions prior to CommVault Simpana 9.0. With these versions of CommVault Simpana, you must add new storage to the appliance manually as documented in the Dell PowerVault DL Backup to Disk Appliance Powered by CommVault Simpana User's Guide.



IMPORTANT: Upgrading the operating system on the DL Backup to Disk Appliance to Windows 2008 R2 before meeting the specified prerequisites can potentially lead to data loss.

Upgrading from Windows Server 2008 x64 to Windows Server 2008 R2 for CommVault™ Simpana™

djdppwgf - CommCell Console												_ 8 ×
Eile View Tools Windows Help								0				
🖻 🔽 - 🖪 🗞 🛅 🚮	0									e co	mmva	nult®
🔔 CommCell Browser 🛛 🕂		ELL Disk A	rray3 >	<								4 ▷ 🗏
ajdppwgf	🏭 djdp	pwgf > 💱	Storage	Resources	> 😥 L	.ibraries > 📦	DELL Disk A	rray3 >				무ㅁ곱
Client Computer Groups	Mou	nt Path	Devic	e Name	5	Status	Free Space	(MB) Ca	pacity (MB)	Job ID	MediaAge	ent 😺
Client Computers	18		CV VDIS	K 0018	Ready	1.	572.762	1.572	855			
E Storage Resources	19		CV VDIS	K 0019	Ready	1,	572,762	1,572	855			
E R Libraries			-	-								
DELL Disk Array1												
DELL Disk Array3					- (Automa	atic Disk G	roup Configu	ration	×		
Locations												
MediaAgents												
The second secon							Failed to qu	ery the Disk su	ubsystem inter	face.		
Policies												
Schedule Policies												
E Storage Policies										ок		
CommServeDR(djdppwqf)												-
DELL Disk Array1(djdppwgf)_(1)	Con	ant D Sur	many									
🕀 🔛 Subclient Policies	Con	S 20										
VaultTracker Policies	E	vent Viewer	×									⊲ ▷ ⊞
Reports	2 Even	t Viewer										+ C 7
	Severity	Event ID	Job ID	Date		Program	Computer	Event Code	1			Des ≯
	0	129	0	7/25/2011 1	4:32:48	CVMMINST	djdppwgf	36:793	Failed to que	ry the Disk subs	ystem interface.	
	0	128	0	7/25/2011 1	4:32:19	CVMMINST	djdppwgf	31:360	2 mount path	(s) configured o	n the magnetic librar	y [DELL I
	0	127	0	7/25/2011 1	4:19:40	MediaManager	djdppwgf	32:45	Library [DELL	Disk Array3] on	MediaAgent [DJDPP	WGF] is
	0	126	0	7/25/2011 1	4:19:28	CVMMINST	djdppwgf	36:786	Found unconf	igured physical	disks available for au	tomatic
	3	125	0	7/25/2011 1	4:18:12	CVMA	djdppwgf	31:350	A disk was un	plugged, or a R	AID controller unbou	nd a LUN
	0	124	0	7/25/2011 1	4:18:12	CVMA	djdppwgf	31:349	A volume was	deleted or it di	sappeared.	
	0	123	0	7/25/2011 1	4:18:12	CVMA	djdppwgf	31:350	A disk was un	plugged, or a R	AID controller unbou	nd a LUN
A CommCell Browser	0	122	0	7/25/2011 1	4:18:11	CVMA	djdppwgf	31:349	A volume was	deleted or it di	sappeared.	
	0	121	0	7/25/2011 1	4:18:11	CVMA	djdppwgf	31:350	A disk was un	plugged, or a R	AID controller unbou	nd a LUN
🦻 Agents	0	120	0	7/25/2011 1	4:18:11	CVMA	djdppwgf	31:349	A volume was	deleted or it di	sappeared.	
Search (Content Indexing)	4	119	0	7/25/2011 1	4:18:11	CVMA	didoowaf	31:350	A disk was un	pluaged, or a R	AID controller unbou	nd a LUN
»			-									
· ·	Pause	Playing	Info	rmation, Min	ior, Major	r, Critical, Max.	events show	vn: 200				

Figure 1: AutoProvisioning error with Simpana versions prior to 9.0 on DL2200

Pre-Upgrade Steps

The following section lists the steps that you need to complete prior to initiating the upgrade of the operating system:

- 1. Pause the job queue by right clicking on the **CommCell** and selecting **Properties**.
- 2. Navigate to the Activity Control tab and uncheck Enable All Job Activity (CV).

djdppwgf - CommCell Console								_ 5 ×
Ele View Tools Windows Help						\sim		ommyault®
🛛 🗹 · 🕑 🗞 🎬 🕯	d 🔛 🕜						8	ommvaure
A CompColl Prowser	🕂 🙀 🗸 djdppwg	lf ×						4 Þ E
alidppwgf	🤼 djdppwqf >							۹O7
a greater computer Groups	18	6	~	0ha	B	101	~	
Security	Cleat	Chant	Convibu	Et avan	Delicies	Departs	Content	
Storage Resources	Computer	Computers	Securicy	Resources	Folicies	Reports	Director	
Policies	CommCell Properties				X	1		
E Gentent Director		Activity Control	1	1				
Content Director	General Eversion E Security	Activity Control	Advanced F	eatures	1			
	All Activity							
	Enable All Job Ac	tivity						
			-					
	Data Management and	Recovery Activity						
	🔽 Enable Data Man	agement						
	Frable Data Reco	overy						
	Administration Activity							4 ▷ 🗉
	Enable Auxiliary							4 C J
	E. Enable Data Acia					Event Code		Des ≯
	IM. Pridpic para Adiri					35:254	User [cvadmin] has logg	ed on.
	Schedule Activity					25:54	System Compatibility che	eck completed with warning.
	Enable Scheduler					35:255	User [cvadmin] has logge	ed off.
	je chabie benegater					36:793	Failed to query the Disk	subsystem interface.
						31:360	2 mount path(s) configur	red on the magnetic library [DELL I
	Content Index Activity					36:786	ciorary (DELL Disk Array. Found unconfigured phy	sical disks available for automatic
â comecul Domain	Enable Online Co					31:350	A disk was unplugged, o	r a RAID controller unbound a LUN
CommCell browser	Per la rable comme co					31:349	A volume was deleted or	it disappeared.
Agents	Enable Offline Co	ntent Indexing				31:350	A disk was unplugged, o	r a RAID controller unbound a LUN
Search (Content Indexing)						31:349	A volume was deleted or	it disappeared.
						200		
1			ОК	Cancel	Help			
							ijdppwgt cvadmin	
🏷 Start 🔚 🔝 🧮	.							* 🕞 🗎 🕼 2:54 PM 7/25/2011

Figure 2: Pausing the Job Queue

- 3. Uninstall Dell Server Administrator
 - a. Navigate to Start -> Control Panel -> Programs and Features

Programs and Features				
🚱 🕞 🗟 🔹 Control Panel 🕶 I	Programs and Features	👻 🛂 Sear	rch	
File Edit View Tools Help				
Tasks View installed updates Get new programs online at Windows Marketplace	Uninstall or change a program To uninstall a program, select it from the list and then click	Uninstall", "Change", or "Rep	pair".	
🕐 Turn Windows features on or off	Organize 👻 🔝 Views 👻	,		
	Name *	Publisher	Install ▼	Size 👻
	Den OpenManage Server Administrator	Broadcom Corporation Dell	7/6/2010 7/6/2010	
	wither Forrervaur of backup to back Appliance Corrigoration	Dell Inc.	7/6/2010	
	Dell PowerVault DL Backup To Disk Appliance Console	Dell Inc.	7/6/2010	
	Dell PowerVault DL Compatibility Manager	Dell Inc.	7/6/2010	
	Hardware Provider for Microsoft VDS (Virtual Disk Services)	Dell Inc.	7/6/2010	
	EiveUpdate 3.3 (Symantec Corporation)	Symantec Corporation	7/6/2010	15.9 MB
	Matrox Graphics Software (remove only)		7/6/2010	
	Microsoft .NET Framework 3.5 SP1	Microsoft Corporation	7/6/2010	32.4 MB
	Microsoft Report Viewer Redistributable 2005	Microsoft Corporation	7/6/2010	64.5 MB
	Microsoft SQL Server 2005	Microsoft Corporation	7/6/2010	223 MB
	Microsoft SQL Server Native Client	Microsoft Corporation	7/6/2010	5.81 MB
	Microsoft SQL Server Setup Support Files (English)	Microsoft Corporation	7/6/2010	20.7 MB
	Microsoft SQL Server VSS Writer	Microsoft Corporation	7/6/2010	1.10 MB
	Microsoft Visual C++ 2005 Redistributable (x64)	Microsoft Corporation	7/6/2010	614 KB
	Symantec Backup Exec (TM) 2010	Symantec Corporation	7/6/2010	1.13 GB
	■ Microsoft SqL Server VSS Writer ■ Microsoft Svall C + + 2005 Redistributable (x64)	Microsoft Corporation Microsoft Corporation Symantec Corporation	7/6/2010 7/6/2010 7/6/2010	1.10 MB 614 KB 1.13 GB

Figure 3: Uninstalling OMSA

b. If this uninstallation procedure appears to hang, start the task manager.

c. Locate the SNMP Service.

olications Proc	esses	Services Performance Networking Users	s		
Name 🔺	PID	Description	Status	Group	
seclogon	304	Secondary Logon	Running	netsvcs	
SENS	304	System Event Notification Service	Running	netsvcs	
Server Admi	1968	DSM SA Connection Service	Running	N/A	
SessionEnv	304	Terminal Services Configuration	Running	netsvcs	
SharedAccess		Internet Connection Sharing (ICS)	Stopped	netsvcs	
ShellHWDet	304	Shell Hardware Detection	Running	netsvcs	
slsvc	364	Software Licensing	Running	N/A	
SECUNDURY		SE OF NOUNCAUON SERVICE	Stopped	LOCAIDER VICE	
SNMP	1988	SNMP Service	Stopping	N/A	
DIVINE I KAP		эмле пар	stopped	N/A	
spad	5080	Backup Exec Deduplication Manager	Running	N/A	
spoold	5700	Backup Exec Deduplication Engine	Running	N/A	
Spooler	1428	Print Spooler	Running	N/A	
SQLBrowser	2000	SQL Server Browser	Running	N/A	
SQLWriter	2024	SQL Server VSS Writer	Running	N/A	
SSDPSRV		SSDP Discovery	Stopped	LocalService	
SstpSvc	504	Secure Socket Tunneling Protocol Service	Running	LocalService	
swprv		Microsoft Software Shadow Copy Provider	Stopped	N/A	
SysMain		Superfetch	Stopped	LocalSyste	
TapiSrv	4932	Telephony	Running	N/A	
TBS		TPM Base Services	Stopped	LocalService	
TermService	996	Terminal Services	Running	NetworkSer	
Themes		Themes	Stopped	netsvcs	
THREADOR		Thread Ordering Server	Stopped	LocalService	
TrkWks	624	Distributed Link Tracking Client	Running	LocalSyste	
TrustedInst		Windows Modules Installer	Stopped	N/A	
UIODetect		Interactive Services Detection	Stopped	N/A	
UmRdpService	624	Terminal Services UserMode Port Redire	Running	LocalSyste	
upnphost		UPnP Device Host	Stopped	LocalService	

Figure 4: SNMP Service

d. If the SNMP Service is in a Stopping state then right-click and select Go To Process

plications Process	ses Services	Pert	formance Ne	tworking Users	
Image 🔺	User Name	CPU	Memory (Description	
postgres.exe	puredisk	00	3,816 K	PostgreSQL Server	
postgres.exe	puredisk	00	3,760 K	PostgreSQL Server	
postgres.exe	puredisk	00	4,600 K	PostgreSQL Server	
postgres.exe	puredisk	00	4,312 K	PostgreSQL Server	
postgres.exe	puredisk	00	4,636 K	PostgreSQL Server	
postgres.exe	puredisk	00	4,324 K	PostgreSQL Server	
PresentationF	LOCAL	00	6,748 K	PresentationFontCache.exe	
pvlsvr.exe	Administ	00	28,384 K	Backup Exec PVL Service	
services.exe	SYSTEM	00	5,952 K	Services and Controller app	
SLsvc.exe	NETWO	00	9,520 K	Microsoft Software Licensing Service	
smss.exe	STSTEM	00	1,046 K	windows Session Manager	
snmp.exe	SYSTEM	00	5,964 K	SNMP Service	
simplexe 52	STOTEM	00	10,500 K	SIVINE SELVICE	
spad.exe	SYSTEM	00	14,956 K	PureDisk Application	
spoold.exe	SYSTEM	00	321,716 K	PureDisk Content Router	
spoolsv.exe	SYSTEM	00	7,120 K	Spooler SubSystem App	
sqlbrowser.ex	NETWO	00	1,416 K	SQL Browser Service EXE	
sqlservr.exe *32	SYSTEM	00	132,416 K	SQL Server Windows NT	
sqlwriter.exe	SYSTEM	00	8,852 K	SQL Server VSS Writer - 64 Bit	
svchost.exe	SYSTEM	00	3,940 K	Host Process for Windows Services	
svchost.exe	SYSTEM	01	37, 192 K	Host Process for Windows Services	
svchost.exe	SYSTEM	00	2,960 K	Host Process for Windows Services	
svchost.exe	LOCAL	00	7,928 K	Host Process for Windows Services	
svchost.exe	SYSTEM	00	10,652 K	Host Process for Windows Services	
svchost.exe	SYSTEM	00	5,448 K	Host Process for Windows Services	
svchost.exe	NETWO	00	7,792 K	Host Process for Windows Services	
svchost.exe	LOCAL	00	9,232 K	Host Process for Windows Services	
svchost.exe	NETWO	00	27,012 K	Host Process for Windows Services	
svchost.exe	LOCAL	00	8,852 K	Host Process for Windows Services	
	s from all users				Endpose

Figure 5: SNMP Process

e. Locate the snmp.exe process, right-click and select End Process. This step allows the OMSA uninstallation to complete.

Note: Before continuing, verify all running backup jobs have completed.

4. Reboot the system to complete the uninstallation of the Dell Server Administrator.

Windows R2 Upgrade

The following section details the steps you need to perform to upgrade the operating system to Windows Server 2008 R2.

- 1. Begin the Windows Server 2008 R2 Upgrade by running the Setup.exe on the Windows Server 2008 R2 media.
- 2. Select the Full Server Installation (not the Server Core).

Operating system Windows Senior 2008 P2 Standard (Full Installation)	Architecture	Date modified
Vindows Server 2008 R2 Standard (Server Core Install	ation) x64	7/14/2009
nis option installs the complete installation of Windo er interface, and it supports all of the server roles.	ws Server. This installat	on includes the entire

Figure 6: Full Installation vs Server Core

3. Select the option to **Upgrade**. The system will reboot several times during the upgrade.



Figure 7: Upgrade vs Custom Install

Post OS-Upgrade Steps

The following section describes the steps that you must run once the upgrade to Windows Server 2008 R2 is complete and before the DL Backup to Disk Appliance is ready to be used.

- Download the Recovery and Update Utility (RUU) for your platform to a folder on the C:\ drive from <u>http://support.dell.com/support/downloads/</u> Depending on the hardware platform, the appropriate RUU can be downloaded by following the steps below.
 - a. If you are performing the OS upgrade on a DL2000, Windows Server 2008 x64 is the only OS available in the Operating System drop-down list. Select the RUU download available under the IDM dropdown.
 - b. If you are performing the OS upgrade on a DL2100, Windows Server 2008 x64 is the only OS available in the Operating System drop-down list. There are two RUU downloads under the IDM drop-down. Make sure you select the RUU download for Windows Server 2008 R2.

Upgrading from Windows Server 2008 x64 to Windows Server 2008 R2 for CommVault[™] Simpana[™]

Drivers & Downloa	ads for PowerVault DL2100				
Support Options					Download List
Support Home Page		hange Your Produ	ct		0 Items selected
Drivers and Downloads		olo with Drivers on	d Download	c .	(Add items from results bel
Drivers Home	2	eip with Drivers an	u Downioau	•	Download
Dell Supported Operating	? D	ownload Manager	FAQ		Save/EditList
Systems					Email List
Product Support					Auto 1 - 2 - 0
▶Warranty Status	Refine Your Results			(More Details
Support History & Status	On antina Quakana (2) Windows Son	vr 2008 v64			
Software Support	Operating System: 10 Windows Serve	ar 2006 x64		·	
Global Recycling Options	Category: ② All			*	-
▶ Boomi					Subscribe to
▶ Compelient	More Filter Options				
▶EqualLogic					
Order Support	All PowerVault DL2100 (57 files)				
Ownership Transfers Delivery	Applications (1)				
FAQs	👻 Bios (1)				
▶ Returns	🕑 CD/DVD (2)				
Contact Us	Chipset (1)				
Contact Technical Support Contact Order Support	 Diagnostics (3) 				
Contact Dell Sales International Support	Embedded Server Management (2)				
	💿 IDM (2)				
	File Title(s)	Importance	Release	Version	Download & Options
	Dell - Application	Recommended	6/9/2011	3.3.0.0, A00	Download
	Applies to:				
	PowerVault DL2100 Recovery and Update Utility				Add To Download Lis

Figure 8: Downloading appropriate RUU for DL2100

 c. If you are performing the OS upgrade on a DL2200, there are two OS options available in the Operating System drop-down list. Make sure you select Windows Server 2008 R2 as the Operating System. Only one IDM listing is displayed because the appropriate OS has already been selected.

Support Home Page					Dowilload List
		Change Your Product	t		0 Items selected
Drivers and Downloads Drivers Home	i	Help with Drivers and	Download	в	(Add items from results below)
Drivers Help	3	Download Manager F	40		Download
Dell Supported Operating	States and States	Download manager r	/104		Save/Edit List
Technical Subscriptions	A DESCRIPTION OF THE OWNER.				Email List
Monitor Drivers					
Dell Certified Drivers	Refine Your Peoulte				Windows 7 Compatibility
Product Support	Oneret a Sustam (2) Windows Sar	ver 2008 P2		-	Wore Details
EqualLogic Serial Number	Operating System: () windows ser	VEI 2000 R2		•	
Converter	Category. C A				
Troubleshooting					Subscribe to RSS fe
Manuals	 More Filter Options 				
System Configuration Enterprise Resource Center					
Interactive System Teardowns					
Parts & Upgrades	All PowerVault DL2200 (44 files)				
My Products and Services Support History & Status	👻 Bios (1)				
Customer Self Repair	CD/DVD (1)				
Recall Information	Chipset (1)				
Global Recycling Options	 Diagnostics (3) 				
Support by Topic	Embedded Server Management (4)				
Windows 7	IDM (1)				
Windows Vista	File Title(s)	Importance	Release	Version	Download & Options
Networking and Wireless		Burnardad	Date		
Support Videos	Dell - Utility	Recommended	0/9/2011	3.3.0.0, A00	Download
Coppers videos	Applies to:	2			Add To Download List
	 PowerVault DL2200 Recovery and Update Utility 	1			 Add to Download List

Figure 9 : Downloading appropriate RUU for DL2200

2. If you are performing the OS upgrade on a DL2100 or DL2200, download and install the OS Driver Pack available under the Lifecycle Controller drop-down.

🔵 🗢 http://support.dell	.com/support/downloads/driverslist.aspx?os=WS8	R28ccatid=-18cdateid	- 4 7	🗙 🛃 Google	
🗞 Convert 👻 🔂 Select					
avorites 🛛 🚖 🙋 Daisy 🔧 G	oogle 🧱 Raritan Gateway ThickClie 🔊 Web S	Slice Gallery 🔻			
Drivers & Downloads			🗄 ×	🛯 🕶 🖶	▼ Page ▼ Safety ▼ Tools ▼
oyatema	and the second se			•	Email List
Product Support Warranty Status Support History & Status	Refine Your Results			(Windows 7 Compatibility Nore Details
My Products and Services	Operating System: (2) Windows Serve	r 2008 R2		•	
Global Recycling Options	Category: ② All			•	Subscribe to PSS for
Compelient FoualLogic	More Filter Options				
Order Support					
Order Status	All PowerVault DL2200 (44 files)				
Delivery	Bios (1)				
▶FAQs ▶Missing, Wrong or Damaged	CD/DVD (1)				
▶ Returns	Chipset (1)				
Contact Us	 Diagnostics (3) 				
Contact Technical Support	 Embedded Server Management (4) 				
Contact Dell Sales International Support	🕑 IDM (1)				
	 Lifecycle Controller (4) 				
	File Title(s)	Importance	Release Date	Version	Download & Options
	Dell - Application	Optional	3/9/2011	1.5.0.671, A00	Download
	Lifecycle Controller				Add To Download List
					More Download Options
	Dell - Application	Ortical			Download
	Lifecycle Controller Repair Package	Optional	3/14/2011	1.5.0, 25_A00	+ Add To Download List
	Dell - Application	Optional	3/9/2011	6.5.0.12, A00	Download
	Applies to: OS Drivers Pack				Add To Download List
					More Download Options
	Dell - Application				Download

Figure 10: Downloading the OS Driver pack

3. Download Dell Server Administrator and unzip to a folder on the C:\ drive.

Note: The default folder location is C:\OpenManage.

WinZip Self-Extractor - OM-SrvAdmin-Dell-W	/eb-WIN-6 🗙
To unzip all files in this self-extractor file to the specified folder press the Unzip button.	Unzip
Unzip to folder:	Run WinZip
c:\OpenManage Browse	Close
Overwrite files without prompting	About
	Help
Ltopping WindowsServer2000-KE942298-v4-x98	47.6

Figure 11: Unzipping the OpenManage WebPack

4. Run RUU to update the Dell applications and re-install OMSA. When prompted for the location of OMSA, choose the location specified in step 3.

Upgrading from Windows Server 2008 x64 to Windows Server 2008 R2 for CommVault[™] Simpana[™]

Dell™ PowerVault™ DL Appliance Recovery and Updat	e Utility	0
	Install	Status
Install Windows Server Roles and Features		
Dell [™] PowerVault [™] DL Appliance Applications (NOTE: May require a reboot)	•	
Dell [™] OpenManage [™] Server Administrator	•	
Re-install the backup application	E	
3.4.0.0	Go	Finish

Figure 12: Running RUU

5. For the DL2100 and DL2200 appliances, view the Compatibility tab in the Appliance Console for any required software updates (BIOS, drivers, firmware).

Hon	e Settings	Support Compatibility		ļ
pliance	Compatibility Manager			
profile nan	ne :	DL2200 Appliance Stack		
Descriptio	n :	Verifies the compatibility of various hardware and software components.		
/ersion :		330		
Status :		A Warning		
Refresh.co	impatibility information			
Click on a d	component in this list for detailed inf	formation		
Status	Name	Description	Version	
	Dell PowerVault DL Configur	Used for initial setup and configuration of the DL Backup to Disk Ap	2.2.00	
V	Dell PowerVault DL Applianc	Enables appliance management from a single console	2.3.00	
	Dell PowerVault DL Compati	Verifies appliance software and hardware version compatibility	1.2.00	
V	Hardware provider for Micro	Enables Virtual Disk Service (VDS) support for PERC hardware	91.02.36.15	
	Dell Openmanage Server A	Systems and Storage Management Application	6.5.0	
~	BIOS	Appliance BIOS	1.6.3	
-				
1	PERC H700 Integrated Driver	Driver for PERC H700 Integrated RAID Controller	4.23.0.64	
	PERC H700 Integrated Firm	Firmware for PERC H700 Integrated RAID Controller	12.10.1-0001	
	PERC H800 Adapter Driver	Driver for PERC H800 Adapter RAID Controller	4.23.0.64	
	PERC H800 Adapter Firmware	Firmware for PERC H800 Adapter RAID Controller	12.10.1-0001	
	Broadcom NetXtreme Firmw	Firmware for Broadcom NICs	6.2.14	
A	Broadcom NetXtreme Driver	Driver for Broadcom NICs	14.2.3	

Figure 13: Compatibility Tab

6. Download the required software updates from support.dell.com/support/downloads by navigating to the appropriate platform page as listed below.

PowerVault Appliance Version	Platform to download software updates
PowerVault DL2000	PowerEdge 2950
PowerVault DL2100	PowerEdge R710
PowerVault DL2200	PowerEdge DL2200

Note: Select Windows Server 2008 R2 as the operating system before selecting and downloading any updates. Also, select the Update Package for Microsoft Windows format if available.

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Figure 14: Windows Update Package Format

- 7. Restart (un-pause) the Job Queue within the CommCell Properties -> Activity Control tab by checking the Enable All Job Activity checkbox.
- 8. Once the disk libraries are back on line, Dell recommends that you run at least one backup and restore job from a Deduplication and non Deduplication Storage Policy.

Restoring the Dell Wallpaper

- 1. Open a windows file explorer.
- 2. Navigate to the C:\Windows\Web\Wallpaper folder.
- 3. Right-click on the file picador.jpg and select Set as desktop background.



Figure 15: Restoring the Dell Wallpaper