

Dell DR4000 System
**System
Interoperability
Guide**
Release 1.1.0.0



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

This document provides information about the supported hardware and software versions for the Dell DR4000 system, Release 1.1.0.0, Build No. 39455.

Supported Hardware

This section lists the hardware supported by DR4000 systems. Where applicable, firmware and driver versions are also listed.

BIOS

System	Version
DR4000	1.9.0 or later

RAID Controllers

System	RAID Controller	Max Number of Controllers	Firmware Revision	Driver Revision
DR4000	PERC H700 w/1G NVRAM	1	12.10.2-0004 or later	00.00.04.31.2 or later
	PERC H800 w/1G NVRAM	1	12.10.2-0004 or later	00.00.04.31.2 or later

Hard Drives (Internal)

System	Internal RAID Slots	Internal RAID Controller	Drive Type	RAID Level
DR4000	PERC H700	0	Hot-swappable 3.5-inch SAS drive (hot spare)	N/A
		1-11	Eleven (11) hot-swappable 3.5-inch SAS or Nearline SAS drives	6
		12-13 ¹	Two (2) 2.5-inch SAS drives	1

¹ Slots 12 and 13 are located within the DR4000 chassis. For information on locating these drives, see the *Dell DR4000 System Owner's Manual*.

USB Flash Drive

The USB flash drive is not included with the DR4000 system release.

System	Minimum Size ²
DR4000	4GB

² Minimum size required for DR4000 Restore Manager

Network Interface Controllers

System	NIC	Firmware Revision
DR4000	Broadcom Dual Port 1 Gigabit server adapter	6.2.15 or later
	Intel Dual Port 10 Gigabit server adapter	12.5.2 or later
	Intel Dual Port 10 Gigabit SFP+ server adapter	12.5.2 or later

iDRAC Enterprise

System	Controller	Firmware Revision
DR4000	iDRAC6 Enterprise	1.9 or later

Marvell WAM Controller

System	Controller	Firmware Revision	Driver Revision
DR4000	WAM1 Plus	1.7.0 or later	1.7.0 or later

Supported Software

This section lists the supported operating systems, applications and protocols for the Dell DR4000 system.

Operating System

System	Operating System
DR4000	CentOS 5.4 2.6.18-164.el5 x86_64 edition

Supported Backup Software

Software	Versions
Symantec Backup Exec	2010 R3 2012
Symantec NetBackup	7.1 7.5
Simpana (CommVault) Backup and Recovery	8.0 9.0 SP3
Veeam Backup and Replication	5.x 6.x
NetWorker (EMC) Backup and Recovery	7.5 7.6
AppAssure (Dell) Backup, Replication, and Recovery	4.7

Network File Protocols and Backup Client Operating Systems

The following information lists the supported DR4000 system network protocols, and the corresponding supported client operating systems.

Protocol	Versions	Backup Client OS
CIFS ³	SMB 1.0	Windows 2003 and later (32 and 64 Bit)
NFS	V3 over TCP	Linux 2.6 and later (32 and 64 Bit)

³ The following CIFS protocol features are not supported by the DR4000 system:

- MS-DOS-compatible 8.3 file names (short file names)
- MS-Windows NTFS (New Technology File System) alternate data streams

Supported Web Browsers

This section lists the supported web browsers for use with the Dell DR4000 system.

Software	Versions
Mozilla Firefox	10 or higher
Microsoft Internet Explorer	8.0 or higher
Google Chrome	15.x or higher

This section lists the supported configuration limits for the Dell DR4000 system.

System Feature	Limit
Maximum files	25 million
Maximum containers	32
Maximum replications per container	1
Maximum CIFS connections	32
Maximum NFS connections	32
Maximum replications per system	5:1 ⁴

⁴ Up to five source DR4000 systems can write to separate, individual containers on a single, target DR4000 system.

Supported OST Software and Components

This section lists the supported OST software and components for use with the Dell DR4000 system. These include the type of media server installation (Linux or Windows), the OST plug-in component, the supported OST protocol releases, and the DMAs.

OST Software or Component	Description
Media Server	
Linux installations	Uses a Linux OST plug-in and the Red Hat Package Manager (RPM) installer

Windows installations	Uses a Windows OST plug-in and the Microsoft (MSI) installer
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OST Plug-In Component	Supported Releases
Linux-based 64-bit	<ul style="list-style-type: none"> • Red Hat Enterprise Linux (RHEL) <ul style="list-style-type: none"> ○ Version 5.x ○ Version 6 • SUSE <ul style="list-style-type: none"> ○ Version 10 ○ Version 11

Windows-based 64-bit	<ul style="list-style-type: none"> • Windows 2003 • Windows 2008 • Windows 2008, Release 2
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OST Protocol	Supported Releases
Symantec OpenStorage	<ul style="list-style-type: none"> • Symantec <ul style="list-style-type: none"> ○ Version 9 ○ Version 10

Supported DMAs	Supported Releases
Linux-based 64-bit	<ul style="list-style-type: none"> • NetBackup <ul style="list-style-type: none"> ○ Version 7.1 ○ Version 7.5 • Backup Exec⁵ <ul style="list-style-type: none"> ○ Version 2010, R3 ○ Version 2012

⁵ The Backup Exec Deduplication Option is required for Backup Exec compatibility with OST devices and is available for purchase from Symantec. The Dell OST plug-in that is installed on a supported Linux or Windows media server platform is available as a free download from Dell.



Printed in the U.S.A.

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