Dell Systems Management — OpenManage Software Support Matrix

Version 8.0.1

Notes, Cautions, and Warnings

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

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

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Introduction

The Dell Systems Management Software Support Matrix helps identify Dell OpenManage software and other Dell components supported on Dell PowerEdge and Dell Storage systems, web browsers, and operating systems.

This guide is intended for system administrators and technicians. The guide provides information about the available 13th generation of PowerEdge servers, supported operating systems, and Dell OpenManage components that can be installed on these systems.

What is new In this release

NOTE: Dell recommends to use Lifecycle controller for OS deployment on Dell's 13th generation of PowerEdge servers as a replacement for SBUU, as it is deprecated.

This release supports:

- Dell PowerEdge servers:
  - Dell PowerEdge R730
  - Dell PowerEdge R730 XD
  - Dell PowerEdge R630
  - Dell PowerEdge T630
- Dell Precision R7910
- Support for new operating systems:
  - Server operating systems:
    - Red Hat Enterprise Linux 7.0
    - VMware vSphere (ESXi) 5.5 U2
    - Citrix XenServer 6.2 Service Pack 1 (SP1)
  - Client operating systems (Dell Precision R7910):
    - Microsoft Windows 7 Professional (32–bit and 64–bit)
    - Microsoft Windows 8.1 Professional (64–bit)
- Supported Redundant Array of Independent Disks (RAID) controllers:
  - Dell PowerEdge RAID Controller (PERC) H830
  - Dell PowerEdge RAID Controller (PERC) H730
  - Dell PowerEdge RAID Controller (PERC) H730P
  - Dell PowerEdge RAID Controller (PERC) H330
  - Dell PowerEdge S130 Software RAID
- Supported non-RAID controller: Dell Serial-Attached SCSI (SAS) 12Gbps Host Bus Adapter (HBA)
- Integrated Dell Remote Access Controller 8 (iDRAC8)/Lifecycle Controller v2.00.00.00.

- OpenManage Essentials(OME) v2.0.
- OpenManage Mobile(OMM) v1.1.
- OpenManage Power Center(OMPC) v3.0.
- Dell OpenManage Deployment Toolkit (DTK) v5.0.1
- iDRAC Service Module v2.0
- The Dell Systems Management Tools and Documentation (SMTD) DVD provides additional information on OpenManage products/tools.

NOTE: The OpenManage (OM) 8.0.1 SMTD is applicable on Dell's 13th generation of PowerEdge servers only.

Structure of this guide

Dell OpenManage solutions and tools allow customers to quickly respond to problems by helping them to manage Dell servers effectively and efficiently; in physical, virtual, local, and remote environments, operating in-band and out-of-band (agent-free).

This guide is organized on the basis of in-band and out-of-band management and monitoring.

Accessing documents from Dell support site

You can access the required documents in one of the following ways:

- Using the following links:
  - For all Enterprise Systems Management documents — **dell.com/softwaresecuritymanuals**
  - For Enterprise Systems Management documents — **dell.com/openmanagemanuals**
  - For Remote Enterprise Systems Management documents — **dell.com/esmmanuals**
  - For OpenManage Connections Enterprise Systems Management documents — **dell.com/OMConnectionsEnterpriseSystemsManagement**
  - For Serviceability Tools documents — **dell.com/serviceabilitytools**
  - For Client Systems Management documents — **dell.com/clientsystemsmanagement**
  - For OpenManage Connections Client Systems Management documents — **dell.com/connectionsclientsystemsmanagement**
- From the Dell Support site:
  a. Go to **dell.com/support/home**.
  b. Under **General support** section, click **Software & Security**.
  c. In the **Software & Security** group box, click the required link from the following:
     - **Enterprise Systems Management**
     - **Remote Enterprise Systems Management**
     - **Serviceability Tools**
     - **Client Systems Management**
     - **Connections Client Systems Management**
  d. To view a document, click the required product version.
- Using search engines:
  - Type the name and version of the document in the search box.

Where can I find the Server Administrator one-to-one agent

You can find information on the supported versions of Server Administrator at **dell.com/support** and also on *Dell Systems Management Tools and Documentation* DVD.

Supported GUI languages

Dell OpenManage is localized to French, German, Spanish, Simplified Chinese, and Japanese languages.

The following table lists the languages of the Dell OpenManage GUI against the operating system languages. Dell OpenManage supports only the languages listed in the following table.

Table 1. Supported Dell OpenManage GUI languages

Dell OpenManage GUI Languages	Operating System							
	English	French	German	Spanish	Simplified Chinese	Japanese	Korean	Traditional Chinese
English	X						X	X
French		X						
German			X					
Spanish				X				
Simplified Chinese					X			
Japanese						X		
Korean								
Traditional Chinese								

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In-band server management and monitoring

In-band server management is the process of managing and monitoring servers using operating system tools, and other inbuilt tools, using Dell OpenManage Server Administrator.

Supported Dell OpenManage Systems Management software

Dell OpenManage systems management software is a suite of applications for Dell systems. This suite of software applications allow you to manage your system with proactive monitoring, notification, and remote access.

Dell OpenManage systems management software consists of Dell OpenManage Server Administrator.

Dell OpenManage Server Administrator (Server Administrator) is a comprehensive, one-to-one systems management solution, designed for system administrators to manage systems locally and remotely on a network.

Server Administrator comprises the following services:

- Server Administrator Web Server
- Server Instrumentation
- Remote Enablement
- Remote Access Controller
- Storage Management

For more information, see the *Dell OpenManage Server Administrator User's Guide* at **dell.com/support/manuals**.

Supported Dell OpenManage Systems Management software on Microsoft Windows operating systems

NOTE: The OM 8.0.1 SMTD is applicable on Dell's 13th generation of PowerEdge servers only.

The following table lists the supported Dell OpenManage 8.0.1 installation and systems management software on systems running supported Microsoft Windows operating systems.

An **X** in the intersection of the operating system and the Dell system columns indicates that Server Administrator is supported on that operating system for the corresponding system.

Table 2. Supported Dell OpenManage 8.0.1 Systems Management software on systems running Microsoft Windows operating systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1			Microsoft Windows Server 2012				Microsoft Windows Server 2012 R2				Microsoft Windows 7 Professional (32-bit and 64-bit)	Microsoft Windows 8.1 Professional (64 bit)
	Standard	Data Center	Web	Standard	Essentials	Standard	Datacenter	Foundation	Essentials	Standard	Datacenter		
R730	X	X	X	X	X	X	X	X	X	X	X		
R730 XD	X	X	X	X	X	X	X	X	X	X	X		
R630	X	X	X	X	X	X	X	X	X	X	X		
T630	X	X	X	X	X	X	X	X	X	X	X		
R7910												X	X

Supported Dell OpenManage Systems Management Software on Linux operating systems

The following table lists the supported Dell OpenManage 8.0.1 installation and systems management software on systems running supported Linux operating system.

An **X** in the intersection of the operating system and the Dell system columns indicates that Server Administrator and Lifecycle Controller are supported on that operating system for the corresponding Dell system.

Table 3. Supported Dell OpenManage Systems Management software on systems running Linux operating systems

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64–bit)	Red Hat Enterprise Linux 7.0 (64-bit)
R730	X	X	X
R730 XD	X	X	X
R630	X	X	X
T630	X	X	X
R7910			X

Supported Dell OpenManage Systems Management software on virtualization operating systems

An **X** in the intersection of the operating system and the Dell system columns indicates that the Server Administrator and Lifecycle Controller are supported on that operating system for the corresponding Dell system.

The following table lists the supported Dell OpenManage 8.0.1 installation and systems management software on systems running supported virtualization operating systems.

Table 4. Supported Dell OpenManage Systems Management software on systems running supported virtualization operating systems

Dell System	VMware		Citrix
	ESXi 5.1 U2 (HDD)	ESXi 5.5 U2 (HDD, Flash)	XenServer 6.2 SP1
R730	X	X	X
R730 XD	X	X	X
R630	X	X	X
T630	X	X	X
R7910		X	X

Supported Microsoft Windows operating systems for Server Administrator and Server Administrator Web Server

The following table lists the supported Microsoft Windows operating systems for the Server Administrator and Server Administrator Web Server.

Table 5. Supported Microsoft Windows Server operating systems for Server Administrator and Server Administrator Web serve

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012 Datacenter	Microsoft Windows Server 2012 Essentials	Microsoft Windows Server 2012 R2
Service Pack	SP1	N/A	N/A	N/A
Server Administrator	X	X	X	X
Server Administrator Web Server	X	X	X	X

Supported Linux operating systems for Server Administrator and Server Administrator Web Server

The following table lists the supported Linux operating systems for the Server Administrator and Server Administrator Web Server.

Table 6. Supported Linux operating systems for Server Administrator and Server Administrator Web Server

Dell System	SUSE Linux Enterprise Server 11 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
Service Pack	SP3	N/A	N/A
Server Administrator	X	X	X
Server Administrator Web Server	X	X	X

Supported virtualization operating systems for Server Administrator and Server Administrator Web Server

The following table lists the supported virtualization operating systems for the Server Administrator and Server Administrator Web Server.

Table 7. Supported virtualization operating systems on Physical System

	VMware			Microsoft			Citrix
Edition	**ESXi 5.1 U2 (HDD)**	**ESXi 5.1 U2 (Flash)**	**ESXi 5.5 U2**	**Hyper-V R2 SP1 for Windows 2008**	**Hyper-V for Windows 2012**	**Hyper-V for Windows 2012 R2**	**XenServer v6.2 SP1**
Server Administrator	X	X	X	X	X	X	X
Server Administrator Web Server				X	X	X	

NOTE: Server Administrator comprises Server Instrumentation, Storage Management, Remote Access Components, and Remote Enablement.

NOTE: Server Administrator Web Server component cannot be installed on Dell systems running ESXi operating systems.

Supported operating systems for Server Administrator Web Server on Managed System (Servers)

For information on supported operating systems on managed systems, see Supported Dell OpenManage Systems Management Software.

Supported Dell OpenManage Systems Management Consoles

Dell OpenManage Systems Management Consoles provide the necessary tools for remote or one-to-many group system management. These tools also consolidate the management applications used on management workstations.

Dell OpenManage Systems Management Consoles include:

- Dell OpenManage Essentials v2.0
- Dell OpenManage Mobile v1.1
- Dell OpenManage Power Center v3.0

Dell OpenManage Essentials v2.0

The Dell OpenManage Essentials(OME) in the one-to-many Systems Management Console providing Elemental Hardware Management that helps you maximize IT performance and uptime capabilities of Dell PowerEdge servers, EqualLogic and Dell Storage, PowerConnect and Dell Force10 switches.

For more information, see the *Dell OpenManage Essentials Support Matrix* at **dell.com/support/manuals**.

Dell OpenManage Mobile v1.1

Dell OpenManage Mobile(OMM) is a Systems Management application that allows you to monitor your data center from an Android mobile device. Dell OpenManage Mobile allows you to add one or more OpenManage Essentials consoles 1.3 or later and/or Integrated Dell Remote Access Controllers (iDRACs) 7 or later. OMM provides OpenManage Essentials sends alerts to your mobile device and allows you to troubleshoot your hardware in case of emergencies. OpenManage Mobile can also connect to a PowerEdge server directly through the iDRAC with Lifecycle Controller interface. After OMM is connected, you can perform several basic management functions directly on the server. In addition, OpenManage Mobile allows you to view the health of your data center and perform basic tasks such as power control functions.

Dell OpenManage Power Center v3.0

Dell OpenManage Power Center (OMPC) management console provides increased visibility and control over the power consumption of Dell PowerEdge servers, anomalies, and utilization through fine-grained instrumentation. This enables increased control, improved rack density, faster response times, greater accuracy, and broader decision-making intelligence. OMPC allows customers to set a budget cap and provides millisecond fast power-capping to prevent tripping a circuit breaker. OMPC also allows IT Admins to set policies to dictate automated response when power or temperature events occur.

Supported Microsoft Windows operating systems for OpenManage Power Center v3.0

The following table lists the supported Microsoft Windows operating systems for the OpenManage Power Center

Table 8. Supported Microsoft Windows operating systems for OpenManage Power Center

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012 (64–bit)	Microsoft Windows Server 2012 R2 (64–bit)	Microsoft Windows 7.0 Enterprise (64–bit)	Microsoft Windows 8.0 Enterprise (64–bit)
Edition	**Standard, Enterprise, and Datacenter**	**Standard, Enterprise, and Datacenter**	**Standard, Enterprise, and Datacenter**		
Service Pack	SP2				
Power Center	X	X	X	X	X

Supported Linux operating systems for OpenManage Power Center v3.0

The following table lists the supported Linux operating systems for OpenManage Power Center v3.0.

Table 9. Supported Linux operating systems for OpenManage Power Center v3.0

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)
Power Center	X	X	X

Supported web browsers for In-band management and monitoring

The list of supported web browsers for OpenManage 8.0.1 Systems Management software on systems running supported Microsoft Windows, Red Hat Enterprise Linux, SUSE Linux Enterprise Server(SLES), and Macintosh operating systems.

Table 10. Supported web browsers running supported Microsoft Windows, Red Hat Enterprise Linux, SLES, and Macintosh operating systems.

Operating System	Internet Explorer 9 (64-bit)	Internet Explorer 10 (64-bit)	Internet Explorer 11 (64-bit)	Mozilla Firefox 22/ Mozilla Firefox 23	Google Chrome30/ Google Chrome31	Safari 5.2/ Safari 6
Windows 7 SP2 (32-bit)	X	X	X	X		
Windows 7 SP2 (64-bit)	X	X	X	X		
Windows 8 SP1 (32-bit)		X	X	X	X	
Windows 8 SP1 (64-bit)		X	X	X	X	
Macintosh OSX 10.7 (Lion)						X
Macintosh OSX 10.8 (Mountain Lion)						X
Windows Server 2008 R2 SP1 (64-bit)	X	X	X	X		
Windows Server 2012 (64-bit)		X	X	X		
Windows Server 2012 R2 (64-bit)		X	X	X		
SLES 11 SP3 (64 bit)	Native Mozilla Firefox Web Browsers					
Red Hat Enterprise Linux 6.5 (64–bit)	Native Mozilla Firefox Web Browsers					

Operating System	Internet Explorer 9 (64-bit)	Internet Explorer 10 (64-bit)	Internet Explorer 11 (64-bit)	Mozilla Firefox 22/ Mozilla Firefox 23	Google Chrome30/ Google Chrome31	Safari 5.2/ Safari 6
Red Hat Enterprise Linux 7.0 (64-bit)	Native Mozilla Firefox Web Browsers					

NOTE: For the latest information, see the *Release Notes* for the specific product available at **dell.com/support/manuals**, click **Software → Systems Management → Dell OpenManage Releases**. Select the OpenManage release version and then select the appropriate product to view the *Release Notes*.

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Out-of-band server management and monitoring

Out-of-band server management is the process of remotely managing and monitoring servers using Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller.

Supported Integrated Dell Remote Access Controllers and solutions

The Dell PowerEdge embedded server management solution, Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller, helps IT administrators to speed up the essential management tasks, it increases the availability of your servers, and reduces your IT operational expenses.

With powerful, easy-to-use, remote management and configuration options, iDRAC with Lifecycle Controller alerts IT administrators when an issue occurs, enables streamlined local and remote server management, and reduces or eliminates the need for administrators to physically visit the server even if the server is not operational.

iDRAC comprises:

- Graphical User Interface(GUI), Command Line Interface(CLI), and WS-MAN
- Server instrumentation
- OS Integration
- Manage storage devices

Overview

All versions of iDRAC8 – Basic, Express, and Enterprise – ship from the factory with a default static IP address, this is a preferred and a known method. However, Dell also offers two options to better fit into a customer's existing environment. **Auto-discovery** or **DHCP** can be set from the factory to allow you to access iDRAC and remotely configure your server.

iDRAC version naming convention

- iDRAC7
  - 1.xx.yy
  - xx is the iDRAC firmware version
  - yy is the power & thermal table version
- iDRAC8
  - 2.xx.yy.zz

- xx is the iDRAC firmware version
- yy is the power & thermal table version
- zz is the Lifecycle Controller version

For Dell's 13th generation of PowerEdge server, the iDRAC and Lifecycle Controller firmware is a single image.

Auto Discovery

The Auto Discovery option is for customers who have some type of provisioning server already installed in their data center environment. A provisioning server manages and automates the deployment or upgrade of an operating system and applications to a Dell PowerEdge server. By enabling Auto Discovery, the servers will — upon first boot — search for a provisioning server to take control and begin the automated deployment or update process. Select this option if you want to ensure that this feature is enabled at the Dell factory. There is no charge to enable Auto Discovery at the time of order.

DHCP

The DHCP option is for customers who have a Dynamic Host Configuration Protocol (DHCP) server already installed in their data center environment. The DHCP server automatically assigns the IP address, gateway, and subnet mask to iDRAC8. Select this option if you want to ensure that this feature is enabled at the Dell factory. There is no charge to enable DHCP at the time of order.

NOTE: Auto Configuration will be enabled as a one-time activity.

DRAC also logs event data and the most recent crash screen (for systems running the Microsoft Windows operating system only) to help diagnose the probable cause of a system crash.

For more information, see the *Dell Remote Access Controller User's Guide* or the *Integrated Dell Remote Access Controller User's Guide* at **dell.com/support/manuals**.

Table below "Remote Access Controllers and Solutions for Blade Servers" and Table "For Rack and Tower Servers" list the following:

- Supported Remote Access Controller versions and firmware for iDRAC8
- Supported Chassis Management Controller versions and firmware
- Supported BMC firmware versions
- Supported IPMI protocol versions

iDRAC Service Module 2.0

The Integrated Dell Remote Access Controller(iDRAC) Service Module is a lightweight optional software application that can be installed on Dell 12G Server or later with minimum Firmware version of 1.57.57 for iDRAC7 and 2.00.00.00 or later for iDRAC8. The iDRAC Service Module complements iDRAC interfaces – Graphical User Interface (GUI), RACADM CLI and Web Service Management (WS-MAN) with additional monitoring data. You can configure the features on the supported operating system depending on the features to be installed and the unique integration needs in a work environment.

The iDRAC Service Module architecture uses IP socket communication and provides additional Server Management data (OS/device driver) to iDRAC and presents one-to-many consoles with access to Systems Management data through OS standard interfaces.

NOTE: The new features of iDRAC Service Module 2.0 are supported only on 13th generation servers with minimum firmware version of 2.00.00.00 or later.

Supported Remote Access Controllers and solutions for blade, rack, and tower servers

Table 11. Supported Remote Access Controllers and solutions for blade, rack, and tower servers

Dell System	iDRACs		BMC Firmware Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC Firmware Version		
R730	**iDRAC8**	**2.00.00.00**	**N/A**	**2.0**
R730XD	iDRAC8	2.00.00.00	N/A	2.0
R630	iDRAC8	2.00.00.00	N/A	2.0
T630	iDRAC8	2.00.00.00	N/A	2.0

Lifecycle Controller — Supported Dell systems and operating systems

The Dell Lifecycle Controller provides advanced embedded systems management and is delivered as part of Integrated Dell Remote Access Controller (iDRAC) and embedded Unified Extensible Firmware Interface (UEFI) applications in the Dell's 13th generation of PowerEdge servers.

The Lifecycle Controller software components are built on iDRAC and UEFI system firmware. Lifecycle Controller firmware can access and manage the hardware, including component and sub-system management that is beyond the traditional Baseboard Management Controller (BMC) capabilities. The UEFI environment provides the local console interface and the infrastructure for locally managed system components. It simplifies the end-to-end server lifecycle management.

On the Dell's 13th generation of PowerEdge servers, Lifecycle Controller is known as Lifecycle Controller —User Interface (includes GUI and Remote Services). The functionalities available are based on the generation of the server and the variant of Lifecycle Controller:

- **Lifecycle Controller GUI v2.00.00.00** — Lifecycle Controller GUI supports systems management tasks such as deploy, configure, update, maintain, and diagnose in a one-to-one method.
- **Lifecycle Controller-Remote Services v2.00.00.00** — Remote Services (WS-MAN) simplifies end-to-end server lifecycle management using the one-to-many method. It interfaces for remote deployment integrated with Dell OpenManage Essentials and partner consoles.

For more information, see the *Lifecycle Controller* documentation at **dell.com/support/manuals**.

Supported Dell systems and Microsoft Windows operating systems for Lifecycle Controller v2.00.00.00

See Supported Dell OpenManage Systems Management Software On Microsoft Windows Operating Systems for a list of all the Dell systems and Microsoft Windows operating systems that support Lifecycle Controller.

NOTE: Lifecycle Controller is not supported on Windows Storage Server operating systems.

Supported Dell systems and Linux operating systems for Lifecycle Controller v2.00.00.00

See Supported Dell OpenManage Systems Management Software On Linux Operating Systems for a list of all the Dell systems and Linux operating systems that support Lifecycle Controller.

Supported Dell systems and virtualization operating systems for Lifecycle Controller v2.00.00.00

See Supported Dell OpenManage Systems Management Software On virtualization operating systems for a list of all the Dell systems and virtualization operating systems that support Lifecycle Controller.

Supported web browsers for Out-of-band management and monitoring

The list of supported web browsers for iDRAC8 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server, and Macintosh operating systems.

Table 12. Supported web browsers for iDRAC8 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server(SLES), and Macintosh operating systems

Operating System	Internet Explorer 9 (64-bit)	Internet Explorer 10 (64-bit)	Internet Explorer 11 (64-bit)	Mozilla Firefox 29/ Mozilla Firefox 30	Google Chrome 33/ Google Chrome 34	Safari 6/ Safari 7
Windows 7 SP2 (32-bit)	X	X	X	X		
Windows 7 SP2 (64-bit)	X	X	X	X		
Windows 8 SP1 (32-bit)		X	X	X	X	
Windows 8 SP1 (64-bit)		X	X	X	X	
Macintosh OSX 10.7 (Lion)						X
Macintosh OSX 10.8 (Mountain Lion)						X
Windows Server 2008 R2 SP2 (32-bit)	X			X		
Windows Server 2008 R2 SP2 (64-bit)	X			X		
Windows Server 2008 R2 SP1 (64-bit)	X	X	X	X		
Windows Server 2012 (64-bit)		X	X	X		
Windows Server 2012 R2 standard edition (64-bit)		X	X	X		
SLES 11 SP3 (64 bit)	Native Mozilla Firefox Web Browsers					

Operating System	Internet Explorer 9 (64-bit)	Internet Explorer 10 (64-bit)	Internet Explorer 11 (64-bit)	Mozilla Firefox 29/ Mozilla Firefox 30	Google Chrome 33/ Google Chrome 34	Safari 6/ Safari 7
Red Hat enterprise Linux 6.5 (64-bit)	Native Mozilla Firefox Web Browsers					
Red Hat enterprise Linux 7.0 (64-bit)	Native Mozilla Firefox Web Browsers					

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Supported Dell OpenManage Change Management Software

Dell OpenManage change management software is a set of tools that allows you to update Dell systems easily. It is also an efficient way to manage hardware, software, and operating system updates.

Change Management software can be monitored or managed in-band using OpenManage Server Administrator 8.0.1 or out-of-band management using iDRAC8.

Dell OpenManage change management software comprises of:

- Dell Update Packages (DUPs)
- FTP Catalog
- **Dell Update Packages v14.05.00** — A Dell Update Package (DUP) is a self-contained executable in a standard package format. Each DUP is designed to update a single software component on a Dell system.

DUPs allow administrators to update a wide range of system components simultaneously and apply scripts to similar sets of Dell systems to bring system software components up to the same version levels.

For more information on DUPs, see the *Dell Update Packages User's Guide* available at **dell.com/support/manuals**.

- **FTP Catalog** — With Dell Repository Manager, you can use the FTP catalog, which contains the support for n and n-1 blocks. For more information about the supported system models for the FTP catalog, see **ftp.dell.com/cmsdk/PDK_Readme.doc**.

Supported Dell OpenMange Change Management Software on Microsoft Windows operating systems

A ' **D** ' in the intersection of the operating system and the Dell system columns indicates support for DUPs.

The following table lists the supported Dell OpenManage 8.0.1 Change Management Software on systems running supported Microsoft Windows operating systems.

Table 13. Supported Dell OpenManage Change Management Software on systems running supported Microsoft Windows operating systems

Dell System	Microsoft Windows Server 2008 R2 x64 SP1 (includes all services packs)	Microsoft Windows Storage Server 2012	Microsoft Windows Server 2012 R2
	Foundation, Standard, Enterprise, Datacenter, and Web	Express, Workgroup, Standard, and Enterprise	Foundation, Essentials, Standard, Datacenter
R730	D	D	D
R730 XD	D	D	D
R630	D	D	D
T630	D	D	D

Supported Dell OpenManage Change Management Software on Linux operating systems

A ' **D** ' in the intersection of the operating system and the Dell system columns indicates support for DUPs. The DUP is a self-contained executable in a standard package format that updates an application or component firmware on a server. Using Dell Repository Manager along with other tools helps maintain managed systems up-to-date.

The following table lists the supported Dell OpenManage 8.0.1 Change Management Software on systems running supported Linux operating systems.

Table 14. Supported Dell OpenManage Change Management Software on systems running supported Linux operating systems

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	Red Hat Enterprise Linux 6.5 (64–bit)	Red Hat Enterprise Linux 7.0 (64-bit)
R730	D	D	D	D
R730 XD	D	D	D	D
R630	D	D	D	D
T630	D	D	D	D

Supported Dell OpenManage Change Management Software on virtualization operating systems

A ' **D** ' in the intersection of the operating system and the Dell system columns indicates support for DUPs.

NOTE: You can install OpenManage Server Administration using VIB file on Embedded VMware (ESXi) operating systems.

NOTE: DUPs are not supported on ESXi operating systems.

The following table lists the supported Dell OpenManage 8.0.1 Change Management Software on systems running supported virtualization operating systems.

Table 15. Supported Dell OpenManage Change Management Software on systems running supported virtualization operating systems

Dell Systems	Citrix XenServer 6.2 SP1
R730	D
R730 XD	D
R630	D
T630	D

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Dell OpenManage Systems Management tools for in-band and out-of-band access

Dell OpenManage Systems Management tools or utilities provide the necessary tools for remote or one-to-many group system management. These tools also consolidate the management applications used on management workstations.

- Dell Deployment Toolkit
- DRAC tools that include RACADM, VMCLI, and iVMCLI
- IPMI Tool in-Band
- BMC Management Utility and IPMI Tool Out-of-Band

Supported Microsoft Windows Preinstallation Environment for Deployment Toolkit v5.0.1

The following are the supported Microsoft Windows Preinstallation Environment for Dell Deployment Toolkit (DTK) on Dell PowerEdge servers:

- Microsoft Windows Preinstallation Environment 3.0
- Microsoft Windows Preinstallation Environment 4.0
- Microsoft Windows Preinstallation Environment 5.0

DTK helps in deploying the following Microsoft Windows Server operating systems:

- Microsoft Windows Server 2008 R2 SP1 (64-bit)
- Microsoft Windows Server 2012 – Foundation, Essentials, Standard, and Datacenter editions
- Microsoft Windows Server 2012 R2 – Foundation, Essentials, Standard, and Datacenter editions

NOTE: Red Hat Enterprise Linux 7 in deployed using DTK Embedded Language Interface (ELI).

For more information, see the *Dell Openmanage Deployment Toolkit 5.0.1 for Microsoft Windows Preinstallation Environment Release Notes* at **dell.com/support/openmanagemanuals**.

DTK (on Dell Precision R7910) helps in deploying the following Microsoft Windows Client operating systems:

- Microsoft Windows 7 Professional (32-bit and 64-bit) for Microsoft Windows Preinstallation Environment 3.0
- Microsoft Windows 8.1 Professional (64-bit) for Microsoft Windows Preinstallation Environment 5.0

DRAC tools that include RACADM, VMCLI, and iVMCLI

RACADM is a command-line utility that allows administrators to configure and replicate settings across multiple Dell Remote Access Controllers (DRACs). The RACADM utility supports operations through the

use of command-line parameters, switches, and a configuration file that contains all the data required to configure a DRAC.

Supported Microsoft Windows operating systems for the RACADM utility

The following table lists the supported Microsoft Windows operating systems for the RACADM utility.
An '**X** ' in the operating system column indicates support for the RACADM utility.

Table 16. Supported Microsoft Windows Operating Systems for RACADM

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1		
Remote RACADM	X	X	X
Local RACADM	X	X	X

Supported Linux operating systems for the RACADM utility

The following table lists the supported Linux operating systems for the RACADM utility.
An ' **X** ' in the operating system column indicates support for the RACADM utility.

Table 17. Supported Linux operating systems for RACADM

	SUSE Linux Enterprise Server 11 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
Service Pack	SP3		
Remote RACADM	X	X	X
Local RACADM	X	X	X

Supported virtualization operating systems for the RACADM utility

The following table lists the supported virtualization operating systems for the RACADM utility.

An **'X'** in the operating system column indicates support for the RACADM utility.

Table 18. Supported virtualization operating systems for RACADM

	VMWare		Citrix
	ESXi 5.1 U2	ESXi 5.5 U2 (flash, HDD)	XenServer 6.2 SP1
Remote RACADM	X	X	X
Local RACADM			X

Supported Microsoft Windows operating systems for VMCLI and iVMCLI

The following table lists the supported Microsoft Windows operating systems for VMCLI and iVMCLI.
An ' **X** ' in the operating system column indicates support for the VMCLI and iVMCLI.

Table 19. Supported Microsoft Windows operating systems for VMCLI and iVMCLI

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1		
VMCLI and iVMCLI	X	X	X

Supported Linux operating systems for the VMCLI and iVMCLI

The following table lists the supported Linux operating systems for VMCLI and iVMCLI.

An ' **X** ' in the operating system column indicates support for the VMCLI and iVMCLI utility.

Table 20. Supported Linux operating systems for VMCLI and iVMCLI

	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
VMCLI and iVMCLI	X	X	X

IPMITool In-band

IPMITool in-band helps in configuring and managing devices.

For more information, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* at **dell.com/support/manuals**.

Supported Microsoft Windows operating systems for IPMITool In-band

The following table lists the supported Microsoft Windows operating systems for the IPMITool In-band.

An ' **X** ' in the operating system column indicates IPMITool in-band support.

Table 21. Supported Microsoft Windows operating systems for IPMITool In-band

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Edition	SP1		
IPMITool	X	X	X
IPMITool In-Band	X	X	X

Supported Linux operating systems for IPMITool In-band

The following table lists the supported Linux operating systems for the IPMITool In-band.

An '**X** ' in the operating system column indicates IPMITool in-band support.

Table 22. Supported Linux operating systems for IPMITool In-band

	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
IPMITool In-Band	X	X	X

IPMITool Out-of-band

BMC Management Utility (BMU) is a utility to access Baseboard Management Controller (BMC) and perform management activities. BMU allows remote, out-of-band LAN and/or serial port power control, event log access, and console redirection.

The IPMITool is a Command Line Interface (CLI) utility that helps in configuring and managing devices using the IPMI version 2.0 and later protocol. The IPMITool supports out-of-band access (over a LAN or through the serial port) to a single system at a time. The IPMITool also supports in-band access.

For more information, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* at **dell.com/support/manuals**.

Supported Microsoft Windows operating systems for IPMITool Out-of-band

The following table lists the supported Microsoft Windows operating systems for the IPMITool Out-of-band

An ' **X** ' in the operating system column indicates IPMI Tool out-of-band support.

Table 23. Supported Microsoft Windows operating systems for BMU and IPMITool Out-of-band

Dell System	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1		
IPMITool Out-of-Band	X	X	X

Supported Linux operating systems for IPMITool Out-of-band

The following table lists the supported Linux operating systems for the IPMITool Out-of-band.

An '**X** ' in the operating system column indicates IPMITool Out-of-band support.

Table 24. Supported Linux operating systems for IPMITool Out-of-band

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
IPMITool Out-of-Band	X	X	X

Supported Microsoft Windows operating systems for the IPMITool BMU

The following table lists the supported Microsoft Windows operating systems for the IPMI Tool.

An ' **X** ' in the operating system column indicates the IPMITool BMU support.

Table 25. Supported Microsoft Windows operating systems for IPMITool BMU

Dell System	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1		
IPMITool	X	X	X

Supported Linux operating systems for IPMITool BMU

The following table lists the supported Linux operating systems for the IPMITool BMU.

An ' **X** ' in the operating system column indicates the IPMITool BMU support.

Table 26. Supported Linux operating systems for IPMITool BMU

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)
IPMITool	X	X	X

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Network Interface Controllers and supported operating systems

The drivers required for a Network Interface Controllers (NIC) depend on the operating system installed on your system.

NIC can be monitored or managed in-band using OpenManage Server Administrator 8.0.1 or out-of-band management using iDRAC8.

The following table lists the NIC manufacturers and drivers version required for the supported operating systems in OpenManage 8.0.1.

Table 27. NIC manufacturers and drivers required for supported operating systems

NIC Product Name	Microsoft Windows Server 2008 Family	Microsoft Windows Server 2012 Family	Red Hat Enterprise Linux 6.5 (64–bit)	Red Hat Enterprise Linux 7.0 (64–bit)	SUSE Linux Enterprise Server 11 SP3 (64–bit)
Broadcom Family of Adapters	18.4.0	18.4.0	18.4.0	Native	18.4.0
Intel Family of Adapters	16.0.0	16.0.0	16.0.0	NA	16.0.0
QLogic Family of Adapters	5_3_25_0425	5_3_25_0425	5.3.55.7	5.3.55.7	5.3.55.7
Emulex Family of Adapters	08.02.30	08.02.30	08.02.30	Native	08.02.30
Brocade Family of Adapters	3.2.3	3.2.3	NA	NA	3.2.3
Mellanox Family of Adapters (Ethernet only)	WinOF 4.60 (R2 only)	WinOF 4.60	MLNX OFED2.1-1.0.0	Native	MLNX OFED2.1-1.0.0

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RAID controller supported servers, operating systems, firmware, and driver versions

Starting with Dell OpenManage Server Administrator version 8.0.1, only the enhanced Storage Management Service is supported. The Storage Management Service allows you to configure and manage your storage devices from within Server Administrator.

NOTE: The Storage Management Service mentioned in this guide refers to the enhanced Storage Management Service. Server Administrator no longer supports the basic Storage Management Service (also known as Array Manager).

Most of the systems management releases support management of RAID controllers in the form of PERC cards, and some systems management releases also support SATA controllers. System administrators responsible for monitoring the compatibility of their storage devices of the system need a clear matrix that shows the elements that are compatible with a particular storage controller. Each storage controller version in turn supports a specific array of elements, including:

- Version of the Storage Management Service
- Dell system
- Firmware version number required for a particular controller
- Supported operating systems, where each operating system requires a specific driver

The following types of controllers are included in this section:

- The RAID controller card group contains the following controllers: PERC H830 Adapter, PERC H830 Mini Monolithic, PERC H730 Adapter, PERC H730 Mini Monolithic, PERC H730P Adapter, PERC H730P Mini Monolithic, PERC H330 Adapter, PERC H330 Mini Monolithic, PERC H330 Embedded, S130, and non-RAID controller SAS 12Gbps HBA

NOTE: The firmware and drivers listed in this section refer to the minimum supported version as of the publication date of this document. Later versions of the firmware and drivers may also be supported or required.

For more information, see the *Dell OpenManage Server Administrator User's Guide* and the *Dell OpenManage Storage Management User's Guide* at **dell.com/support/manuals**.

The following are the new features for Storage devices in iDRAC8:

Perform the following operations for storage devices:

- Physical disks: Assign or unassign physical disk as a global hot spare
- Virtual disks:
  - Create virtual disks
  - Edit virtual disk cache policies

  - Check virtual disk consistency
  - Initialize virtual disks
  - Encrypt virtual disks
  - Assign or unassign dedicated hot spare
  - Delete virtual disks
- Controllers:
  - Configure controller properties
  - Import or auto-import foreign configuration
  - Clear foreign configuration
  - Reset controller configuration
  - Create or change security keys
- PCIe SSD devices:
  - Check inventory and remotely monitor the health of PCIe SSD devices in the server.
  - Prepare the PCIe SSD to be removed
  - Securely erase the data
- Set the backplane mode (unified or split mode).
- Blink or unblink component LEDs
- Apply the device settings immediately, at next system reboot, at a scheduled time, or as a pending operation to be applied as a batch as part of the single job.

Linux driver included in RPM*

The 1.1.4 Linux driver is included in RPM 2302 (Red Hat Package Manager 2302).

PERC H830 Adapter, Mini Monolithic

The PERC H830 Adapter, Mini Monolithic support the following Dell PowerEdge systems: R730, R730XD, R630, and T630.

The following tables list the other elements supported by the PERC H830 Adapter, Mini Monolithic controllers.

Table 28. Dell OpenManage supported elements: PERC H830 Adapter, Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
6.602.07.00	6.901.04.00	Native	6.901.04.00

PERC H730 Adapter, Mini Monolithic

The PERC H730 Adapter, Mini Monolithic support the following Dell PowerEdge systems: R730, R730XD, R630 and T630.

The following tables list the other elements supported by the PERC H730 Adapter, Mini Monolithic controllers.

Table 29. Dell OpenManage Supported Elements: PERC H730 Adapter, Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
6.602.07.00	6.901.04.00	Native	6.901.04.00

PERC H730P Adapter, Mini Monolithic

The PERC H730P Adapter, Mini Monolithic support the following Dell PowerEdge systems: R730, R730XD, R630, and T630.

The following tables list the other elements supported by the PERC H730P Adapter, Mini Monolithic controllers.

Table 30. Dell OpenManage supported elements: PERC H730P Adapter, Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
6.602.07.00	6.901.04.00	Native	6.901.04.00

PERC H330 Adapter, Mini Monolithic, Embedded

The PERC H330 Adapter, Mini Monolithic, Embedded support the following Dell PowerEdge systems: R730, R730XD, R630, and T630.

The following tables list the other elements supported by the PERC H330 Adapter, Mini Monolithic, Embedded controllers.

Table 31. Dell OpenManage supported elements: PERC H330 Adapter, Mini Monolithic, Embedded

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
6.602.07.00	6.901.04.00	Native	6.901.04.00

S130

The S130 support the following Dell PowerEdge systems: R730, R730XD, R630, and T630.

The following tables list the other elements supported by the S130 controller.

Table 32. Dell OpenManage supported elements: S130

Storage Management Service version	Server Administrator Version	Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	4	4.0.0-0035	4.0.0-0035

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
4.0.0-0035	NA	NA	NA

SAS 12Gbps HBA

The SAS 12Gbps HBA supports the Dell Storage MD1400 and MD1420 Enclosures.

The SAS 12Gbps HBA supports the following Dell PowerEdge systems: R730, R730XD, R630, and T630.

The following tables list the other elements supported by the SAS 12Gbps HBA.

Table 33. Storage Management Service supported elements: SAS 12Gbps HBA

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.0.1	8.0.1	3.09.00.00	2.50.75.01	2.50.75.01

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7.0	SUSE Linux Enterprise Server 11 SP3 Driver
2.50.75.01	4.00.01.00	Native	4.00.01.00