Integrated Dell Remote Access Controller 7 (iDRAC7) with Lifecycle Controller

Dell™ iDRAC7 with Lifecycle Controller is designed to increase the productivity of server administrators and improve the monitoring and maintenance of Dell PowerEdge servers.

iDRAC7, an embedded part of every Dell PowerEdge twelfth generation server, helps IT Administrators manage Dell servers in physical, virtual, local, and remote environments, operating in-band or out-of-band, with or without a systems management software agent. iDRAC7 alerts administrators to server problems, enabling remote server management, and reducing the need for the administrator to physically visit the server. iDRAC7 with Lifecycle Controller is part of a Dell's comprehensive OpenManage™ portfolio and works as a stand-alone or in conjunction with other components such as OpenManage Essentials, OpenManage Power Center, and Dell's plug-ins for Microsoft and VMware consoles to simplify and streamline IT operations.

Secure remote management

Dell provides a secure method of remote access to iDRAC7 with Lifecycle Controller, making it easy for any administrator—whether a single IT manager who has a few servers in various locations or an admin who manages hundreds of servers in a data center—to save time by using iDRAC7 with Lifecycle Controller to do the following:

Deploy—Discover a server, inventory it, configure it as desired, and deploy an OS/hypervisor, all remotely and without the use of a PXE agent.

Update—Use Lifecycle Controller and Dell's Repository Manager to store updates from ftp.dell.com and stage and deploy updates as desired.

Monitor—No agents are required to get full monitoring and alerting. New email format is clear, full of information, and very actionable allowing the user to open that server's iDRAC GUI or Virtual Console right from the email.

Maintain—Use Lifecycle Controller and vFlash to back up configuration details of components like NICs, CNAs, PERCs and restore those settings quickly. No need to hunt down specs or compare to another server.

Agent-free management

Dell's agent-free management pushes the intelligence into the hardware allowing iDRAC7 with Lifecycle Controller to monitor, manage, update, troubleshoot, and remediate Dell servers from any location, without the use of agents. This is accomplished regardless of the state of the OS or type of OS or hypervisor. Early notification of potential or actual failures can help prevent a server failure or reduce the recovery time. iDRAC7 extends administrators' reach to larger numbers of

distant servers and increases IT staff productivity. Additionally, administrators can carry out critical management functions while maintaining server and network security and integrity.

Automation of hardware management

With iDRAC7 Enterprise, auto-reconfiguration of replacement parts, including the motherboard, simplifies infrastructure maintenance. The embedded management features give customers the ability to update to the previous configuration settings—including firmware. No more wading through several settings, one at a time, to finalize the part replacement. For improved auditing, iDRAC7 with Lifecycle Controller provides enhanced logging capability, giving customers the means to create unique log entries. Dell PowerEdge twelfth generation servers ship from the factory with embedded driver packs on the Lifecycle Controller to get your system up and running quickly. When you install your OS, the drivers are automatically pulled from the Lifecycle Controller as needed. Additionally, the Lifecycle Controller can be directed to the Dell support website to easily check for updated drivers prior to installation.

The PowerEdge server line

The PowerEdge server family is engineered with the right combination of features and performance scalability to handle tough workloads for both large and small data center environments.

iDRAC7 features

- Agent-free server monitoring

- Manage your servers locally or remotely

- Automation of routine hardware tasks

- Zero touch deployment and provisioning

- Available on PowerEdge servers

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iDRAC7 License Options: Choose the management component for your environment

iDRAC7 Enterprise	- Virtual Console and Media with user collaboration - Dedicated NIC 1Gbps - Advanced security features such as private key and two-factor authentication - Directory Services support - Part replacement - Remote Syslog - Crash video playback - Boot capture - Millisecond power capping and platform power monitoring - 8GB and 16GB vFlash card - Virtual flash partitions - Backup and restore - All the features of Express and Basic Management
iDRAC7 Express for Blades	- Single user Virtual Console with quick launch - Virtual Media - All the features of Express and Basic Management
iDRAC7 Express	- Web GUI and command line access - Power monitoring (including power budgeting) - Diagnostic features such as crash screen capture - Local and remote configuration and updates - Scripting with remote Racadm - Remote OS install - All the features of Basic Management
Basic Management (IPMI)	- Basic hardware management via IPMI 2.0 - Text based console redirection - Embedded diagnostics - Embedded OS installation tools
vFlash	Dell vFlash media is an optional component that is part of iDRAC7 Enterprise. vFlash consists of a Secure Digital (SD) card that can be configured as multiple partitions, each up to 4GB in size. The iDRAC7 Enterprise option can use these partitions as custom repositories for systems management tasks, like backing up component firmware and configurations, automating component configuration restoration, and storing other useful images. The vFlash card can be managed remotely using the iDRAC7 Web interface and the RACADM command line. The vFlash is available in either 8GB or 16GB.
After Point-of-Sale Upgrade Options	New with Dell PowerEdge twelfth generation servers, you can evaluate and purchase upgrades from Dell—right from your iDRAC7 web graphical user interface (GUI). Depending on the server series, you may need to install hardware to obtain full feature functionality. For 200-500 series: If you are evaluating Enterprise, you will have access to all the features except those items that require a hardware component such as the dedicated NIC or vFlash. All other features can be enabled via a software license key. No server reboot is required. For customers purchasing an upgrade, there are several options available, depending on if you need the features that require the hardware card. If you do, you have the option to order the card without the vFlash, or order with either and 8GB or 16GB version. Note: Installing the iDRAC Ports card requires you to turn off the server. For 600 series and above: You have a choice of ordering either just the software license or you can order the license with either size SD card. Note that both the dedicated NIC port and the SD slot for the vFlash are present on the system, but neither is active until the license key has been activated. You may purchase an SD card locally of any size, say 16GB, 32GB, or higher, but partition size is limited to 4GB.

Discover more at Dell.com/OpenManage