

# Feature Comparison: iDRAC 7 & 8 and iDRAC8 License Chart



This brief contains information to assist customers with questions about the iDRAC8 with Lifecycle Controller's licenses and features that are available with the new 13th generation of Dell PowerEdge servers. As was the case with iDRAC7, there are different license and features from which to choose in order to best fit a customers' IT environment. The licensing for iDRAC8 can be changed by digital key, but most customers prefer to order systems with the appropriate features at the time of purchase.

The first table below highlights the key features for each license level and compares to the features contained in the previous generation of Dell PowerEdge servers. The second chart below shows the different licenses that are available by type of server and also includes key features for each type of license.

## At a Glance

License Category	Basic		Express				Enterprise	
	Basic Mgmt (iDRAC7)	iDRAC8 Basic	iDRAC7 Express	iDRAC8 Express	iDRAC7 Express for Blades	iDRAC8 Express for Blades	iDRAC7 Enterprise	iDRAC8 Enterprise
Local Configuration via USC	✓	✓	✓	✓	✓	✓	✓	✓
IPMI 2.0	✓	✓	✓	✓	✓	✓	✓	✓
DCMI 1.5		✓		✓		✓		✓
Embedded Diagnostics	✓	✓	✓	✓	✓	✓	✓	✓
Local OS Install	✓	✓	✓	✓	✓	✓	✓	✓
Local Updates	✓	✓	✓	✓	✓	✓	✓	✓
Driver Pack	✓	✓	✓	✓	✓	✓	✓	✓
Encryption		✓	✓	✓	✓	✓	✓	✓
Shared NIC (LOM) rack/tower only	✓	✓	✓	✓		N/A	✓	✓
Dedicated NIC 1Gbps		✓ <sup>3</sup>		✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
IPv6		✓	✓	✓	✓	✓	✓	✓
Auto-Discovery		✓	✓	✓	✓	✓	✓	✓
Auto-Recovery			✓	✓	✓	✓	✓	✓
Web GUI		✓	✓	✓	✓	✓	✓	✓
Remote CLI		✓	✓	✓	✓	✓	✓	✓
local/SSH CLI		✓	✓	✓	✓	✓	✓	✓
Serial Redirection		✓	✓	✓	✓	✓	✓	✓
Remote Config		✓	✓	✓	✓	✓	✓	✓
Remote Update	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓
NFC (requires custom bezel)		✓		✓		N/A		✓
USB Front Panel Configuration		✓		✓		✓		✓
iDRAC Service Module (iSM)		✓	✓	✓	✓	✓	✓	✓
Scheduled Updates							✓	✓
Automatic Updates								✓
Email Alerts			✓	✓	✓	✓	✓	✓
SNMP Alerts		✓	✓	✓	✓	✓	✓	✓
Comprehensive Monitoring		✓	✓	✓	✓	✓	✓	✓
Performance Monitoring								✓
Part Replacement		✓	✓	✓	✓	✓	✓	✓
Tech Support Report		✓	✓	✓	✓	✓	✓	✓
Backup & Restore configurations							✓	✓
System Wipe		✓		✓		✓		✓

<sup>1</sup> Feature available via IPMI, not web GUI

<sup>2</sup> Requires OMSA agent on target server

<sup>3</sup> Blade to chassis internal connection is 100MB

<sup>4</sup> Uses Active-X on Internet Explorer only

✓	new feature for this release
✓	new feature - iDRAC 1.5/7.5 or higher
✓	new feature - iDRAC8 only

License Category	Basic		Express				Enterprise	
	Basic Mgmt (iDRAC7)	iDRAC8 Basic	iDRAC7 Express	iDRAC8 Express	iDRAC7 Express for Blades	iDRAC8 Express for Blades	iDRAC7 Enterprise	iDRAC8 Enterprise
Virtual Console (4 user)					Single user	Single user	✓	6 users
Virtual Console Chat							✓	✓
Virtual Flash Partitions							✓	✓
Virtual Media					✓	✓	✓	✓
Virtual Folders							✓	✓
VNC server							✓	✓
Remote File Share							✓	✓
Crash Screen Capture <sup>2</sup>			✓	✓	✓	✓	✓	✓
Crash Video Playback <sup>2</sup>							✓	✓
Boot Record/Playback							✓	✓
Power Control	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓
Power Monitoring		✓	✓	✓	✓	✓	✓	✓
Power Capping							✓	✓
Enterprise Group Power Management							✓	✓
Directory Services (AD, LDAP)							✓	✓
PK Authentication				✓		✓	✓	✓
Two-Factor Authentication <sup>4</sup>							✓	✓

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✓	new feature for this release
✓	new feature - iDRAC 1.57.57 or higher
✓	new feature - iDRAC8 only

## iDRAC8 License Versions Chart:

Feature	iDRAC8 Basic	iDRAC8 Express	iDRAC8 Express for Blades	iDRAC8 Enterprise
<b>Where used (by server)</b>	200-500 series Rack/Tower servers (standard)	200-500 Rack/Tower (upgrade option) 600+ Rack/Tower (standard) All FX modules (FM, FC)	All M1000e blades and VRTX modules	All servers (upgrade option)
<b>Interfaces / Standards</b>				
IPMI 2.0	✓	✓	✓	✓
DCMI 1.5	✓	✓	✓	✓
Web-based GUI	✓	✓	✓	✓
Racadm command line (local/remote)	✓	✓	✓	✓
SMASH-CLP (SSH-only)	✓	✓	✓	✓
Telnet	✓	✓	✓	✓
SSH	✓	✓	✓	✓
WSMAN	✓	✓	✓	✓
Network Time Protocol		✓	✓	✓
<b>Connectivity</b>				
Shared NIC	✓	✓	N/A	✓ <sup>1</sup>
Dedicated NIC <sup>2</sup>	✓	✓	✓	✓ <sup>2</sup>
VLAN tagging	✓	✓	✓	✓
IPv4	✓	✓	✓	✓
IPv6	✓	✓	✓	✓



Feature	iDRAC8 Basic	iDRAC8 Express	iDRAC8 Express for Blades	iDRAC8 Enterprise
<b>Where used (by server)</b>	200-500 series Rack/Tower servers (standard)	200-500 Rack/Tower (upgrade option) 600+ Rack/Tower (standard) All FX modules (FM, FC)	All M1000e blades and VRTX modules	All servers (upgrade option)
DHCP	✓	✓	✓	✓
Dynamic DNS	✓	✓	✓	✓
OS pass-through	✓	✓	✓	✓
Front panel USB	✓	✓	✓	✓
<b>Security</b>				
Role-based authority	✓	✓	✓	✓
Local users	✓	✓	✓	✓
SSL encryption	✓	✓	✓	✓
IP blocking		✓	✓	✓
Directory services (AD, LDAP)				✓
Two-factor authentication				✓
Single sign-on				✓
PK authentication		✓	✓	✓
<b>Remote Presence</b>				
Power control	✓	✓	✓	✓
Boot control	✓	✓	✓	✓
Serial-over-LAN	✓	✓	✓	✓
Virtual Media			✓	✓
Virtual Folders				✓
Remote File Share				✓
Virtual Console			✓	✓
VNC connection to OS				✓
Quality/bandwidth control				✓
Virtual Console collaboration (6 users)			✓	✓
Virtual Console chat				✓
Virtual Flash partitions				✓ <sup>2,3</sup>
<b>Power &amp; Thermal</b>				
Real-time power meter	✓	✓	✓	✓
Power thresholds & alerts		✓	✓	✓
Real-time power graphing		✓	✓	✓
Historical power counters		✓	✓	✓
Power capping				✓
Power Center integration				✓
Temperature monitoring	✓	✓	✓	✓
Temperature graphing		✓	✓	✓
<b>Health Monitoring</b>				
Full agent-free monitoring	✓	✓	✓	✓
Predictive failure monitoring	✓	✓	✓	✓
SNMPv1, v2, and v3 (traps and gets)	✓	✓	✓	✓
Email Alerting		✓	✓	✓
Configurable thresholds	✓	✓	✓	✓



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<b>Where used (by server)</b>	200-500 series Rack/Tower servers (standard)	200-500 Rack/Tower (upgrade option) 600+ Rack/Tower (standard) All FX modules (FM, FC)	All M1000e blades and VRTX modules	All servers (upgrade option)
Fan monitoring	✓	✓	✓	✓
Power Supply monitoring	✓	✓	✓	✓
Memory monitoring	✓	✓	✓	✓
CPU monitoring	✓	✓	✓	✓
RAID monitoring	✓	✓	✓	✓
NIC monitoring	✓	✓	✓	✓
HD monitoring (enclosure)	✓	✓	✓	✓
Out of Band Performance Monitoring				✓
<b>Update</b>				
Remote agent-free update	✓	✓	✓	✓
Embedded update tools	✓	✓	✓	✓
Sync with repository (scheduled updates)				✓
Auto-update				✓
<b>Deployment &amp; Configuration</b>				
Embedded OS deployment tools	✓	✓	✓	✓
Embedded configuration tools	✓	✓	✓	✓
Auto-Discovery		✓	✓	✓
Remote OS deployment		✓	✓	✓
Embedded driver pack	✓	✓	✓	✓
Full configuration inventory	✓	✓	✓	✓
Inventory export	✓	✓	✓	✓
Remote configuration	✓	✓	✓	✓
Zerotouch configuration				✓
System Retire/Repurpose	✓	✓	✓	✓
<b>Diagnostics, Service, &amp; Logging</b>				
Embedded diagnostic tools	✓	✓	✓	✓
Part Replacement		✓	✓	✓
Server Configuration Backup				✓
Server Configuration Restore	✓	✓	✓	✓
Easy Restore (system configuration)	✓	✓	✓	✓
Health LED / LCD	✓	✓	✓	✓
Quick Sync (require NFC bezel)	✓	✓	N/A	✓
iDRAC Direct (front USB management port)	✓	✓	✓	✓
iDRAC Service Module (ISM)	✓	✓	✓	✓
Embedded Tech Support Report	✓	✓	✓	✓
Crash screen capture		✓	✓	✓
Crash video capture				✓
Boot capture				✓
Manual reset for iDRAC	✓	✓	✓	✓
Virtual NMI	✓	✓	✓	✓



Feature	iDRAC8 Basic	iDRAC8 Express	iDRAC8 Express for Blades	iDRAC8 Enterprise
<b>Where used (by server)</b>	200-500 series Rack/Tower servers (standard)	200-500 Rack/Tower (upgrade option) 600+ Rack/Tower (standard) All FX modules (FM, FC)	All M1000e blades and VRTX modules	All servers (upgrade option)
OS watchdog	✓	✓	✓	✓
Embedded Health Report	✓	✓	✓	✓
System Event Log	✓	✓	✓	✓
Lifecycle Log	✓	✓	✓	✓
Work notes	✓	✓	✓	✓
Remote Syslog				✓
License management	✓	✓	✓	✓

<sup>1</sup> Not available with blade servers

<sup>2</sup> 500 series and lower rack and tower servers require a hardware card to enable this feature; this hardware offered at additional cost

<sup>3</sup> Requires vFlash SD card media

