



Dell BMC FAQ

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Dell | Datacenter Scalable Solutions

What is Dell BMC?

Dell Baseboard Management Controller is a simplified remote management solution utilized on the DSS 1500 / 1510 / 2500 products. It is standards based: IPMI 2.0, and DCMI 1.5 compliant.

What is the difference between Dell BMC & iDRAC?

Dell BMC is based on iDRAC 8, supporting an optimized for Hyperscale, set of features from iDRAC. Specifically Dell BMC supports Virtual KVM & Media, while the Lifecycle Controller Pre-Boot environment has been removed.

Please refer to the full table below indicating which features are supported in detail.

Can Dell BMC be upgraded to iDRAC?

There is no upgrade path from Dell BMC to iDRAC Basic / Express / Enterprise.

Does Dell BMC work with OpenManage Essentials?

DSS Products are not officially supported by OpenManage software.

What support documents are there for Dell BMC?

Dell BMC will leverage the existing iDRAC documentation; User Guide, Racadm Guide, etc.

Feature Comparison

| | Dell BMC | iDRAC Basic | iDRAC Express | iDRAC Enterprise |
|------------------------------------|----------|-------------|---------------|------------------|
| Interfaces / Standards | | | | |
| IPMI 2.0 | ✓ | ✓ | ✓ | ✓ |
| DCMI 1.5 | ✓ | ✓ | ✓ | ✓ |
| Web-based GUI | ✓ | ✓ | ✓ | ✓ |
| Racadm command line (local/remote) | ✓ | ✓ | ✓ | ✓ |
| SMASH-CLP (SSH-only) | ✓ | ✓ | ✓ | ✓ |
| Telnet | ✓ | ✓ | ✓ | ✓ |
| SSH | ✓ | ✓ | ✓ | ✓ |
| WSMAN | ✓ | ✓ | ✓ | ✓ |
| Network Time Protocol | | | ✓ | ✓ |
| Connectivity | | | | |
| Shared NIC | ✓ | ✓ | ✓ | ✓ |
| Dedicated NIC (with Ports card) | ✓ | ✓ | ✓ | ✓ |
| VLAN tagging | ✓ | ✓ | ✓ | ✓ |
| IPv4 | ✓ | ✓ | ✓ | ✓ |
| IPv6 | ✓ | ✓ | ✓ | ✓ |
| DHCP | ✓ | ✓ | ✓ | ✓ |
| Dynamic DNS | ✓ | ✓ | ✓ | ✓ |
| OS pass-through | ✓ | ✓ | ✓ | ✓ |
| Front panel USB | | ✓ | ✓ | ✓ |
| Security | | | | |
| Role-based authority | ✓ | ✓ | ✓ | ✓ |
| Local users | ✓ | ✓ | ✓ | ✓ |
| SSL encryption | ✓ | ✓ | ✓ | ✓ |
| IP blocking | ✓ | | ✓ | ✓ |

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| Directory services (AD, LDAP) | | | | ✓ |
| Two-factor authentication | | | | ✓ |
| Single sign-on | | | | ✓ |
| PK authentication | | | ✓ | ✓ |
| Remote Presence | | | | |
| 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 | | | | ✓ |
| Power and Thermal | | | | |
| Real-time power meter | ✓ | ✓ | ✓ | ✓ |
| Power thresholds & alerts | ✓ | | ✓ | ✓ |
| Real-time power graphing | ✓ | | ✓ | ✓ |
| Historical power counters | ✓ | | ✓ | ✓ |
| Power capping | | | | ✓ |
| Power Center integration | ✓ | | | ✓ |
| Temperature monitoring | ✓ | ✓ | ✓ | ✓ |
| Temperature graphing | ✓ | | ✓ | ✓ |
| Health Monitoring | | | | |
| Full agent-free monitoring | ✓ | ✓ | ✓ | ✓ |
| Predictive failure monitoring | ✓ | ✓ | ✓ | ✓ |
| SNMPv1, v2 and v3 (traps and gets) | ✓ | ✓ | ✓ | ✓ |
| Email alerting | | | ✓ | ✓ |

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|--|---------------|---|---|---|
| Configurable thresholds | ✓ | ✓ | ✓ | ✓ |
| Fan monitoring | ✓ | ✓ | ✓ | ✓ |
| Power Supply monitoring | ✓ | ✓ | ✓ | ✓ |
| Memory monitoring | ✓ | ✓ | ✓ | ✓ |
| CPU monitoring | ✓ | ✓ | ✓ | ✓ |
| RAID monitoring (PERC) | ✓ | ✓ | ✓ | ✓ |
| NIC monitoring | ✓ | ✓ | ✓ | ✓ |
| HD monitoring (enclosure) | ✓ | ✓ | ✓ | ✓ |
| Out of Band Performance Monitoring | | | | ✓ |
| Update | | | | |
| Remote agent-free update | ✓ | ✓ | ✓ | ✓ |
| Embedded update tools | | ✓ | ✓ | ✓ |
| Sync with repository (scheduled updates) | | | | ✓ |
| Auto-update | | | | ✓ |
| Deployment and Configuration | | | | |
| Embedded OS deployment tools | | ✓ | ✓ | ✓ |
| Embedded configuration tools | | ✓ | ✓ | ✓ |
| Auto-Discovery | | | ✓ | ✓ |
| Remote OS deployment | | | ✓ | ✓ |
| Embedded driver pack | | ✓ | ✓ | ✓ |
| Full configuration inventory | ✓ | ✓ | ✓ | ✓ |
| Inventory export | ✓ | ✓ | ✓ | ✓ |
| Remote configuration | ✓ | ✓ | ✓ | ✓ |
| Zero-touch configuration | | | | ✓ |
| System Retire/Repurpose | ✓ | ✓ | ✓ | ✓ |
| Diagnostics, Service and Logging | | | | |
| Embedded diagnostic tools | ✓ | ✓ | ✓ | ✓ |
| Part Replacement | | | ✓ | ✓ |
| Server Configuration Backup | Via Scripting | | | ✓ |
| Server Configuration Restore | Via Scripting | ✓ | ✓ | ✓ |
| Easy Restore (system configuration) | ✓ | ✓ | ✓ | ✓ |

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|------------------------------------|---|---|---|---|
| Health LED / LCD | ✓ | ✓ | ✓ | ✓ |
| Quick Sync (require NFC bezel) | | ✓ | ✓ | ✓ |
| iDRAC Direct (front USB mgmt port) | | ✓ | ✓ | ✓ |
| iDRAC Service Module (iSM) | | ✓ | ✓ | ✓ |
| Embedded Tech Support Report | ✓ | ✓ | ✓ | ✓ |
| Crash screen capture | | ✓ | ✓ | ✓ |
| Crash video capture | | | ✓ | ✓ |
| Boot capture | | | | ✓ |
| Manual reset for iDRAC | ✓ | ✓ | ✓ | ✓ |
| Virtual NMI | ✓ | ✓ | ✓ | ✓ |
| OS watchdog | ✓ | ✓ | ✓ | ✓ |
| Embedded Health Report | ✓ | ✓ | ✓ | ✓ |
| System Event Log | ✓ | ✓ | ✓ | ✓ |
| Lifecycle Log | ✓ | ✓ | ✓ | ✓ |
| Work notes | ✓ | ✓ | ✓ | ✓ |
| Remote Syslog | | | | ✓ |
| License management | | ✓ | ✓ | ✓ |