



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	✓		✓	✓

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			✓	✓

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)	✓	✓	✓	✓

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		✓	✓	✓