Mg MegaRAC OneTree™

Next-generation BMC Solution

What is MegaRAC OneTree?

Introducing MegaRAC OneTree, AMI's next-generation BMC solution offering a reliable and advanced BMC management for data center operators, cloud, edge, and beyond. Designed for optimal performance, security, and scale, our innovative solution simplifies platform development while enhancing the customer's management experience by providing unparalleled flexibility, modularity, and future-proof design to meet the industry's ever-evolving needs.

OpenBMC Architecture, Multi-vendor Platform, and SoC Support

Built upon the open architecture of OpenBMC, OneTree integrates state-of-the-art technologies across multiple platforms and system-on-chip (SoC) processors, enabling it to be implemented on a wide range of industry use cases.

Ease of Use and Improved Portability for Developers

MegaRAC OneTree provides an easy mechanism to build firmware images for desired platforms and SoCs while allowing developers to include add-on Expansion Packs that best fit their needs, right from the command line. Instead of acquiring a monolithic software package, developers are now able to easily configure and enhance the core BMC stack by selecting the required add-on features and silicon packages.

Key Customer Benefits

- Lower Total Cost of Ownership (TCO)
- Subscription-based Long Term Support (LTS)
- Global Technical Support
- Faster Platform Bring-up
- Faster time-to-market
- Security Analysis, updates and patches
- Multi-Vendor Platform Support
- Multi-Vendor SoC Support
- Multi-Gen Platform Support
- Modular OpenBMC Core Design
- QA Validated, hardened stack
- Advanced Expansion Packs
- Aligned with Intel/ Linux Foundation (LF) OpenBMC Repositories
- Integration with AMI Aptio (UEFI) and Tektagon (HRoT) Solutions

Supported Platform Vendors

- Intel
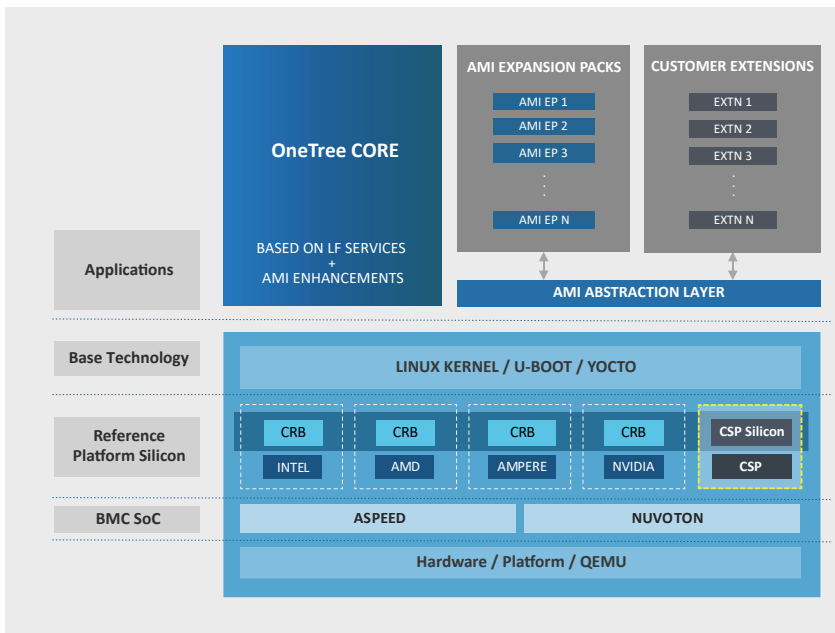- AMD
- Ampere
- Nvidia

Supported BMC SoC Vendors

- Aspeed
- Nuvoton

Powerful Remote Management

MegaRAC OneTree provides a powerful management solution for responsive, high-quality remote management of server systems worldwide. Administrators enjoy a complete out-of-band, OS-independent server control including power management, KVM redirection, and virtual media. MegaRAC OneTree provides an even greater level of modularity than previous solutions.

Use Cases

MegaRAC OneTree can be used in a variety of applications, including:

1. Cloud/Data Center Management: Management and monitoring of servers, storage, and networking equipment in data centers and Cloud infrastructures.

2. Integration with ODM/OEM designs: A flexible platform, a D-Bus Abstraction Layer, and a set of core features for Original Design Manufacturers (ODMs) and Original Equipment Manufacturers (OEMs) to develop and easily integrate their customized BMC firmware extensions (IPs) into their hardware platform design.

Key Industry Features

- IPMI and Redfish® (RESTful API)
- Active Directory and LDAP
- iKVM / Virtual and Remote Media
- Power and Thermal Management
- NVMe-MI and MCTP
- Serial over Lan (SoL)
- Firmware Update
- Remote Debug
- DCMI support/ AMD APML support
- ARM SBMR compliance
- BIOS to BMC communication and associated features
- RAS Support
- PLDM and SPDM Support
- Web UI – Vue
- IPV4 and IPv6 Support

Expansion Packs

- Redfish EP
- NVIDIA® GPGPU EP
- AMD® GPGPU EP
- NIC EP
- NVMe EP
- Firmware Update EP
- Intel PFR and Seamless Update
- Intel On-Demand (SDSi)
- Intel ASD and ACD
- Intel Node Manager Offload & Power Optimization
- Broadcom® PCIe Switch EP
- Broadcom RAID EP
- Microchip® RAID EP
- Intel® MRT
- AMD Remote Debug
- Ampere® Remote Debug

For more information, please visit: ami.com