Hewlett Packard Enterprise

UEFI Settings Quick Reference Guide for HPE ProLiant Gen10, ProLiant Gen10 Plus Servers, and HPE Synergy

Abstract

This guide lists and describes the UEFI System Utilities menu options. Information is listed alphabetically for easy reference.

Part Number: 881330-006
Published: December 2019
Edition: 1

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Contents

UEFI System Utilities options and settings 4

Websites 26

Support and other resources 27

Accessing Hewlett Packard Enterprise Support 27
Accessing updates 27
Remote support 28
Warranty information 28
Regulatory information 28
Documentation feedback 29

UEFI System Utilities options and settings

The following table alphabetically lists each option available in the UEFI System Utilities. The table also shows the menu path to the option from the System Utilities main screen, a brief description of how to use the option, and the available settings, where applicable.

IMPORTANT: UEFI system configuration options vary by platform and the specific components that are installed in your system. Therefore, you might not see some of the options that are documented here. For more information about each option, see the UEFI System Utilities user guide.

Option	System Utilities menu path	Use	Settings
ACPI SLIT Preferences	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **I/O Options**	Enables or disables the Advanced Configuration and Power Interface System Locality Information Table (ACPI SLIT).	• Enabled • Disabled
Active Health System Log (AHS)	**Embedded Applications** > **Active Health System Log**	Downloads an AHS log.	Downloads logs from the previous seven days.
Add an iSCSI Boot Attempt	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Boot Configuration** > **Add an iSCSI Boot Attempt**	Configures an iSCSI boot target.	N/A
Add Boot Option	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **UEFI Boot Settings** > **Add Boot Option**	Adds an x64 UEFI application to the UEFI Boot Order list.	N/A
Add Embedded UEFI Shell to Boot Order	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Add Embedded UEFI Shell to Boot Order**	Adds the Embedded UEFI Shell as an entry in the UEFI Boot Order list on the next reboot.	• Enabled • Disabled
Adjacent Sector Prefetcher	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Processor Prefetcher Options** > **Adjacent Sector Prefetcher**	Enables or disables the adjacent sector prefetch function.	• Enabled • Disabled
Administrator Information	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Asset Information** > **Administrator Information**	Specifies server administrator contact information.	N/A
Advanced Controller Settings	**System Configuration** > **<controller>** > **Configure Controller Settings** > **Advanced Controller Settings**	Modifies advanced Smart Array device settings.	Varied, based on device.
Advanced Debug Option	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Advanced Debug Options**	Controls the output level of debug and POST boot progress messages.	Varied, depending on configuration

Table Continued

Option	System Utilities menu path	Use	Settings
Advanced Memory Protection	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Advanced Memory Protection**	Configures additional memory protection with Error Checking and Correcting (ECC).	• HPE Fast Fault Tolerant (ADDDC) • Advanced ECC Support • Online Spare with Advanced ECC Support • Mirrored Memory with Advanced ECC Support
Advanced PCIe Configuration	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **PCIe Device Configuration** > **Advanced PCIe Configuration**	Configures PCIe resources to support PCIe hot-add for NVMe drives and maximum speed for PCI Express devices to operate.	Varied, depending on configuration.
Advanced Performance Tuning Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Advanced Performance Tuning Options**	Monitors and operates the processor frequency variance due to technologies that vary the frequency based on power, thermals, and active cores.	Varied, depending on configuration.
Advanced Secure Boot Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Secure Boot Settings** > **Advanced Secure Boot Options**	Manages exchange key and signatures databases options.	Varied, depending on configuration.
AMD Core Performance Boost	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **AMD Core Performance Boost**	Controls whether the processor transitions to a higher frequency than the processor's rated speed if the processor has available power and is within temperature specifications	• Enabled • Disabled
AMD I/O Virtualization	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Virtualization Options** > **AMD IOMMU**	Enable or disable hardware capabilities provided by AMD I/O Virtualization (IOMMU) functionalit	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
AMD Interleaving	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **AMD Memory Interleaving**	Modify the level of interleaving for which the memory system is configured. Typically, automatic interleaving results in maximum performance.	• Channel Interleaving • Die Interleaving • Socket Interleaving
AMD Page Table Entry Speculative Lock Scheduling	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **AMD Page Table Entry Speculative Lock Scheduling**.	Configures the AMD Page Table Entry Speculative Lock Scheduling feature.	• Enabled • Disabled
AMD Performance Determinism options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **Performance Determinism**	Configure the processor to maximize power or performance, based on your workload requirements.	• Power deterministic • Performance deterministic
AMD Secure Memory Encryption	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **AMD Secure Memory Encryption**	Enable or disable AMD Secure Memory Encryption functionality.	• Enabled • Disabled
AMD SMT options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **AMD SMT Option**	Enable or disable the AMD Simultaneous Multithreading functionality	• Enabled • Disabled
AMD Virtualization Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Virtualization Options** > **AMD Virtualization Technology**	Enable or disable hardware capabilities provided by AMD VT.	• Enabled • Disabled
Attempt Secure Boot	**System ConfigurationBIOS/Platform Configuration (RBSU)Server Security Secure Boot SettingsAttempt Secure Boot**	Ensures that each component launched during the boot process is digitally signed and that the signature is validated against a set of trusted certificates embedded in the UEFI BIOS.	• Enabled • Disabled
ASR Status	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **ASR Status**	Enables or disables Automatic Server Recovery (ASR), which automatically reboots the server if the server locks up.	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
ASR Timeout	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **ASR Timeout**	When ASR Status is enabled, specifies the time to wait before rebooting the server in the event of an operating system crash or server lockup.	• 5 Minutes • 10 Minutes • 15 Minutes • 20 Minutes • 30 Minutes
Automatic Power-On	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **Automatic Power-On**	Configures how the server automatically powers on when AC power is applied to the system.	• Always Power On • Always Power Off • Restore Last Power State
Backup ROM Image Authentication	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Backup ROM Image Authentication**	Enables or disables cryptographic authentication of the backup ROM image on startup.	• Enabled • Disabled
Boot Mode	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **Boot Mode**	Sets the boot mode for the system.	• UEFI Mode • Legacy BIOS Mode
Boot Order Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **Boot Order Policy**	Controls the behavior when the system attempts to boot devices per the UEFI Boot Order list and no bootable device is found.	• Retry Boot Order Indefinitely • Attempt Boot Order Once • Reset After Failed Boot Attempt
Channel Interleaving	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Channel Interleaving**	When Power Profile is set to Custom, enables or disables a higher level of memory interleaving.	• Enabled • Disabled
Clear Configuration	**System Configuration** > **<controller>** > **Configure Controller Settings** > **Clear Configuration**	Removes the controller metadata, including array configurations and partition information.	• Delete All Array Configuration • Delete RIS on All Physical Drives

Table Continued

Option	System Utilities menu path	Use	Settings
Collaborative Power Control	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Collaborative Power Control**	When Power Profile is set to Custom, enables or disables collaborative power control for operating systems that support the Processor Clocking Control (PCC) interface.	• Enabled • Disabled
Configure Controller Settings	**System Configuration** > **<controller>** > **Configure Controller Settings**	Shows the status of the backup power.	N/A
Consistent Device Naming	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Consistent Device Naming**	Sets the level of device naming, which controls how NIC ports are named based on their locations in the system.	• CDN Support for LOMs and Slots • CDN Support for LOMs only • Disabled
Create Array	**System Configuration** > **<controller>** > **Array Configuration** > **Create Array**	Selects drives, specifies RAID level, and configures array settings.	Power Mode • RAID Level • Set Logical Drive ◦ Logical Drive Label ◦ Strip Size/Full Stripe Size ◦ Sectors Per Track ◦ Size ◦ Unit Size ◦ Acceleration Method • Minimum power Survival Mode

Table Continued

Option	System Utilities menu path	Use	Settings
Create Logical Drive	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **List Logical Drive** > **Create Logical Drive**	Sets the values for the logical drive.	• Logical Drive Label • Strip Size/Full Stripe Size • Sectors Per Track • Size • Unit Size • Acceleration Method
Custom POST Message	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Asset Information** > **Custom POST Message**	Specifies a custom message to display on the ProLiant POST screen during server POST.	N/A
Date and Time	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Date and Time**	Specifies the date and time displayed by the system.	N/A
DCU IP Prefetcher	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Processor Prefetcher Options** > **DCU IP Prefetcher**	Enables or disables the DCU IP prefetch function.	• Enabled • Disabled
DCU Stream Prefetcher	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Processor Prefetcher Options** > **DCU Stream Prefetcher**	Enables or disables the DCU stream prefetch function.	• Enabled • Disabled
Default UEFI Device Priority	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Default Options** > **Default UEFI Device Priority**	Changes the UEFI device priority that is used when default system settings are restored.	N/A
Delete Array	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **Delete Array**	Deletes all logical drives on the array and all data on the logical drives that are part of the array.	Delete
Delete Boot Option	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **UEFI Boot Settings** > **Delete Boot Option**	Deletes an x64 UEFI application from the UEFI Boot Order list.	N/A
Delete iSCSI Boot Attempts	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **iSCSI Boot Configuration** > **Delete iSCSI Boot Attempts**	Deletes one or more iSCSI boot targets.	N/A

Table Continued

Option	System Utilities menu path	Use	Settings
Delete Logical Drive	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **List Logical Devices** > **<logical drive>** > **Delete Logical Drive**	Removes a logical drive and any data that is on the logical drive.	Delete
Device Information	**System Configuration** > **<controller>** > **Disk Utilities** > **<disk>** > **Device Information**	Shows disk device information.	Varies, based on device.
Discover Shell Auto-Start using DHCP	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Discover Shell Auto-Start using DHCP**	Enables the Shell to discover the startup script URL using DHCP.	• Enabled • Disabled
Dynamic Power Capping Functionality	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Boot Time Optimizations** > **Dynamic Power Capping Functionality**	Configures when the system ROM executes power calibration during the boot process.	• Auto • Enabled • Disabled
Edit Logical Drive	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **List Logical Devices** > **<logical drive>** > **Edit Logical Drive**	Modifies settings for the logical drive.	• Acceleration Method • Logical drive label
Embedded Serial Port	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Serial Port Options** > **Embedded Serial Port**	Assigns a logical COM port address and associated default resources to a selected physical serial port.	• COM 1: IRQ4: I/0: 3F8h-3FFh • COM 2: IRQ3: I/0: 2F8h-2FFh • Disabled
Embedded Storage Boot Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Storage Options** > **Embedded Storage Boot Policy**	Selects the UEFI BIOS boot targets for embedded storage controllers.	• Boot All Targets • Boot Limit to 3 Targets • Boot No Targets
Embedded UEFI Shell (enable/disable)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Embedded UEFI Shell**	Enables or disables the Embedded UEFI Shell.	• Enabled • Disabled
Embedded UEFI Shell (launch)	**Embedded Applications** > **Embedded UEFI Shell**	Launches the Embedded UEFI Shell.	N/A
Embedded Video Connection	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Embedded Video Connection**	Configures an external video connection to the embedded video connection.	• Auto • Always Disabled • Always Enabled

Table Continued

Option	System Utilities menu path	Use	Settings
Enabled Cores per Processor	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **Enable Cores per Processor**	Specifies the number of cores to enable per processor socket using Intel's Core Multi-Processing (CMP) Technology.	Number of cores
Energy Efficient Turbo	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Energy Efficient Turbo**	Controls whether the processor uses an energy efficient based policy.	• Enabled • Disabled
Energy/Performance Bias	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Energy/Performance Bias**	When Power Profile is set to Custom, configures several processor subsystems to optimize the processor's performance and power usage.	• Maximum Performance • Balanced Performance • Balanced Power • Power Savings Mode
Exit and resume system boot	System Utilities main screen	Exists the System Utilities and resumes the boot process.	N/A
Extended Ambient Temperature Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Fan and Thermal Options** > **Extended Ambient Temperature Support**	Enables or disables the server to operate at higher ambient temperatures than are normally supported.	• Disabled • Enabled for 40c Ambient (ASHRAE 3) • Enabled for 45c Ambient (ASHRAE 4)
Extended Memory Test	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Boot Time Optimizations** > **Extended Memory Test**	Enables or disables whether the system performs extended memory testing during the memory initialization process.	• Enabled • Disabled
Fan Failure Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Fan and Thermal Options** > **Fan Failure Policy**	Configures how the server reacts when fans fail, resulting in the server not having required fans in operation.	• Shutdown/Halt on Critical Fan Failures • Allow Operation with Critical Fan Failures
Fan Installation Requirements	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Fan and Thermal Options** > **Fan Installation Requirements**	Configures how the server reacts when all required fans are not installed.	• Enable Messaging • Disable Messaging

Table Continued

Option	System Utilities menu path	Use	Settings
Fibre Channel/FCoE Scan Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Storage Options** > **Fibre Channel/FCoE Scan Policy**	Changes the default policy for scanning for valid FC/FCoE (or boot from SAN) boot targets.	• Scan All Targets • Scan Configured Targets Only
Firmware Update	**Embedded Applications** > **Firmware Update**	Updates firmware components in the system, including the system BIOS, NICs, and storage cards.	N/A
HTTP support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options** > **HTTP Support**	Adds HTTP boot options to the boot order list.	• Auto • HTTP Only • HTTPs Only
High Precision Event Timer (HPET) ACPI Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **High Precision Event Timer (HPET) ACPI Support**	Enables or disables the High Precision Event Timer (HPET) table and device object in ACPI.	• Enabled • Disabled
HW Prefetcher	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Processor Prefetcher Options** > **HW Prefetcher**	Enables or disables the processor prefetch function on servers with Intel processors.	• Enabled • Disabled
Identify Device (arrays)	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **Identify Device**	Flashes an LED to physically identify the drive.	• Start • Stop
Identify Device (disks)	**System Configuration** > **<controller>** > **Disk Utilities** > **<disk>** > **Identify Device**	Flashes an LED to physically identify the drive.	• Start • Stop
iLO 5 Configuration Utility	**System Configuration** > **iLO 5 Configuration Utility** > **Network Options**	Manages network options for iLO 5 configuration.	See the full user guide for a list of all settings in this utility.
IMC Interleaving	**System Configuration** > **BIOS/Platform Configuration** > **Memory Options** > **Memory Controller Interleaving**	Use this option to control the Memory Controller Interleaving option.	• Auto (Recommended) • Disabled
Integrated Management Log (IML)	**Embedded Applications** > **Integrated Management Log**	Views or clears the IML.	N/A
Intel DMI Link Frequency	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Intel DMI Link Frequency**	Sets the link speed between the processor and south bridge to run at slower speeds.	• Gen1 Speed • Gen2 Speed

Table Continued

Option	System Utilities menu path	Use	Settings
Intel SGX control options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **Intel SGX Control**.	Configures Intel SGX control options.	• Intel Software Guard Extensions • Intel Speed Select • Software Controlled • PRMRR size • Select Owner EPOCH input type • SGX Launch Control Policy • SGX LE Public Key Hash
Intelligent Provisioning (F10 Prompt)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Intelligent Provisioning (F10 Prompt)**	Controls whether you can press the F10 key to access Intelligent Provisioning from the ProLiant POST screen.	• Enabled • Disabled
Intel NIC DMA Channels (IOAT)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Performance Options** > **I/O Options** > **Intel NIC DMA Channels (IOAT)**	Enables or disables DMA acceleration on Intel NICs.	• Enabled • Disabled
Intel Performance Monitoring Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Intel Performance Monitoring Support**	Enables or disables Intel performance monitoring.	• Enabled • Disabled
Intel(R) Virtualization Technology (Intel VT)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Virtualization Options** > **Intel (R) Virtualization Technology (Intel VT)**	Controls whether a Virtual Machine Manager (VMM) supporting Virtualization Technology can use hardware capabilities provided by UEFI Intel processors.	• Enabled • Disabled
Intel (R) Hyperthreading Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **Intel (R) Hyperthreading Options**	Enables or disables the logical processor cores on processors supporting Intel Hyperthreading technology.	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
Intel (R) Turbo Boost Technology	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Intel (R) Turbo Boost Technology**	Enables or disables Intel Turbo Boost Technology to control whether the processor transitions to a higher frequency than the processor's rated speed if the processor has available power and is within temperature specifications.	• Enabled • Disabled
Intel (R) TXT Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Intel (R) TXT Support**	Enables or disable Intel TXT (Trusted Execution Technology) support for servers with Intel processors.	• Enabled • Disabled
Intel (R) VT-d	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Virtualization Options** > **Intel (R) VT-d**	Enables or disables Intel Virtualization Technology for Directed I/O (VT-d) on a Virtual Machine Manager (VMM).	• Enabled • Disabled
Internal SD Card Slot	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **USB Options** > **Internal SD Card Slot**	Enables or disables the internal SD (Secure Digital) card slot.	• Enabled • Disabled
I/O Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **I/O Options**	Enables or disables the IO/O options.	• Enabled • Disabled
iSCSI Initiator Name	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **iSCSI Boot Configuration** > **iSCSI Initiator Name**	Sets a name for the iSCSI initiator using iSCSI Qualified Name (IQN) format. EUI format is not supported.	A unique name.
iSCSI Software Initiator	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options** > **iSCSI Software Initiator**	Controls which initiator is used for iSCSI boot on configured NIC ports.	• Enabled • Disabled
IPv6 DHCP Unique Identifier	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options** > **IPv6 DHCP Unique Identifier**	Controls how the IPv6 DHCP Unique Identifier (DUID) is set.	• Auto • DUID-LLT
iSCSI Attempts	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **iSCSI Boot Configuration** > **iSCSI Attempts**	Lists the details of iSCSI boot attempts.	N/A

Table Continued

Option	System Utilities menu path	Use	Settings
Legacy BIOS Boot Order	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **Legacy BIOS Boot Order**	Changes the order in which the server looks for OS boot firmware within the Legacy BIOS Boot Order list.	N/A
Local/Remote Threshold	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Local/Remote Threshold**	Disables or sets the Local/remote threshold.	• Disabled • Low • Medium • High
Logical Drive Details	**System Configuration** > ***<controller>*** > **Array Configuration** > **Manage Arrays** > ***<array>*** > **List Logical Drive** > ***<logical drive>*** > **Logical Drive Details**	Shows details for the logical drive.	Varied based on device.
Manage Power Settings	**System Configuration** > **<controller>** > **Configure Controller Settings** > **Manage Power Settings**	Sets power and survival mode.	Power Mode • Maximum performance (default) • Balanced • Minimum power Survival Mode
Manage Spare Drives	**System Configuration** > **<controller>** > **Array Configuration** > **Manage Arrays** > **<array>** > **Manage Spare Drives**	Assigns spare drives to replace a failed drive in a logical drive.	• Assign Dedicated Spare • Assign Auto Replace Spare
Maximum Memory Bus Frequency	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Maximum Memory Bus Frequency**	When Power Profile is set to Custom, configures the system to run memory at a lower maximum speed than that supported by the installed processor and DIMM configuration.	• Auto • 1333 MHz • 1600 MHz • 1867 MHz • 2133 MHz • 2933

Table Continued

Option	System Utilities menu path	Use	Settings
Maximum PCI Express Speed	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **PCIe Device Configuration Options** > **Maximum PCI Express Speed**	When Power Profile is set to Custom, lowers the maximum PCI-express speed at which the server enables PCI-express devices to operate.	• Per Port Control • PCIe Generation 1.0
Memory Clear on Warm Reset	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Time Optimization** > **Memory Clear on Warm Reset**	Configures when memory is cleared on warm resets.	• Enabled • Disabled
Memory Fast Training	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Boot Time Optimizations** > **Memory Fast Training**	Enables or disables memory training on server reboots.	• Enabled • Disabled
Memory Mirroring Mode	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Memory Mirroring Mode**	Configures how much of the total available system memory is reserved for mirroring.	• Full Mirror • Partial Mirror (20% above 4GB • Partial Mirror (10% above 4GB • Partial Mirror (Memory below 4GB) • Partial Mirror (OS Configured)
Memory Patrol Scrubbing	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Memory Mirroring Mode**	Corrects memory sort errors so that, over the length of the system runtime, the risk of producing multi-bit and uncorrectable errors is reduced.	• Enabled • Disabled
Memory Proximity Reporting for I/O	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power Performance Options** > **I/O Options** > **Memory Proximity Reporting for I/O**	Sets whether the system ROM reports the proximity relationship between I/O devices and system memory to the operating system.	• Enabled • Disabled
Memory Refresh Rate	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Memory Refresh Rate**	Controls the refresh rate of the memory controller and might affect the performance and resiliency of the server memory.	• 1x Refresh • 2x Refresh

Table Continued

Option	System Utilities menu path	Use	Settings
Memory Remap	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Memory Remap**	Remaps system memory that might be disabled due to a failure event.	• Remap All Memory • No Action
Minimum Processor Idle Power Core C-State	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Minimum Processor Idle Power Core C-State**	When Power Profile is set to Custom, sets the lowest idle power (C-State) of the processor that the operating system uses.	• C6 State • C3 State • C1E State • No C-states
Minimum Processor Idle Power Package C-State	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Minimum Processor Idle Power Package C-State**	When Power Profile is set to Custom, sets the lowest processor idle power state (C-State).	• Package C6 (retention) State • Package C6 (non-retention) State • No Package State
Mixed Power Supply Reporting	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Mixed Power Supply Reporting**	Sets whether the server logs messages when a mixed supply configuration is present.	• Enabled • Disabled
Modify Controller Settings	**System Configuration** > **<controller>** > **Configure Controller Settings** > **Modify Controller Settings**	Modifies Smart Array device settings	Varied, based on device.
Network Boot Options (for a specific NIC)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options**	Enables or disables network boot for an installed NIC.	• Network Boot • Disabled
Network Boot Retry Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options** > **Network Boot Retry Support**	Enables or disables the network boot retry function.	• Enabled • Disabled
Network Location for Shell Auto-Start Script	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Network Location for Shell Script-Auto Start**	Specifies the network URL location of the UEFI Shell startup script.	N/A
Node Interleaving	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Node Interleaving**	Enables or disables memory interleaving across processors.	• Enabled • Disabled
NUMA Group Size Optimization	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **NUMA Group Size Optimization**	Configures how the system ROM reports the number of logical processors in a NUMA (Non-Uniform Memory Access) node.	• Clustered • Flat

Table Continued

Option	System Utilities menu path	Use	Settings
NVDIMM Memory Interleaving	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Operations** > **NVDIMM Memory Options** > **NVDIMM-N Memory Interleaving**	Enables NVDIMM-Ns that are installed on a particular processor to be interleaved with other NVDIMM-Ns in the memory map.	• Enabled • Disabled
NVDIMM-N Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Memory Operations** > **NVDIMM Memory Options** > **NVDIMM-N Options**	Configures NVDIMM-N memory options.	Varied, based on options.
NVDIMM-N Sanitize/ Erase on Next Reboot Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Memory Operations** > **NVDIMM Memory Options** > **NVDIMM-N Sanitize/Erase on Next Reboot Policy**	Configures options for sanitizing NVDIMMs.	Varied, depending on configuration
Embedded NVM Express Option ROM	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Storage Options** > **NVM Express Options** > **Embedded NVM Express Option ROM**	Use the **Embedded NVM Express Option ROM** option to control how the NVM Express Option ROM is loaded.	• Enabled • Disabled
Decommissioning NVM Express drives	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Storage Options** > **NVM Express Options** > **NVM Express Drive Decommission Option**	Use the following options to decommission NVM Express drives. The drives you select are securely erased during the next boot.	Select the drives and save your settings.
One-Time Boot Menu	System Utilities main screen	Selects a UEFI boot option for a one-time boot override.	Varied, depending on configuration
One-Time Boot Menu (F11 Prompt)	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **One-Time Boot Menu (F11 Prompt)**	Controls whether you can press the F11 key to boot directly to the One-Time Boot Menu during the current boot.	• Enabled • Disabled
Opportunistic Self-Refresh	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Opportunistic Self-Refresh**	Allow the memory controller to enter self-refresh mode during periods of low memory utilization.	• Enabled • Disabled
PCI Bus Padding Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Advanced System ROM Options** > **PCI Bus Padding Options**	Enables or disables the default PCI bus padding, which provides each expansion slot with an extra PCI bus number.	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
PCI Device	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **PCI Device Configuration**	Enables, disables, and sets configuration settings for embedded and added-in PCI devices.	Varied depending on devices
PCIe bifurcation	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **PCIe Device Configuration** > **Advanced PCIe Configuration** > **PCIe Bifurcation Options**	Set the bifurcation option for each PCIe slot.	• **Auto** • **Bifurcate** • **Dual Bifurcate**
PCIe Slot Network Boot	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Network Boot Options** > **PCIe Slot Network Boot**	Enables or disables Network Boot for NIC cards in PCIe slots.	• Network Boot • Disabled
PCIe Storage Boot Policy	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Storage Options** > **PCIe Storage Boot Policy**	Selects the UEFI BIOS boot targets for storage controllers in PCIe slots.	Varied, depending on configuration
Persistent Memory	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Persistent Memory Options**	Configure the Persistent Memory options.	Varied, depending on configuration
HPE Scalable Persistent Memory	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Memory Options** > **Scalable Persistent Memory Options**	Configure the Scalable Persistent Memory options.	Varied, depending on configuration
POST F1 Prompt	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **POST F1 Prompt**	Configures how the system displays the F1 key in the server POST screen.	• Delayed 20 seconds • Delayed 2 seconds • Disabled
Power Button Mode	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **Power Button Mode**	Enables or disables momentary power button functionality.	• Enabled • Disabled
Power-On Delay	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **Power-On Delay**	Sets whether to delay the server from turning on for a specified time.	• No Delay • Random Delay • 15 Second Delay • 30 Second Delay • 45 Second Delay • 60 Second Delay

Table Continued

Option	System Utilities menu path	Use	Settings
Power Regulator	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Power Regulator**	When Power Profile is set to Custom, sets the power regulator mode.	• Dynamic Power Savings Mode • Static Low Power Mode • Static High Performance Mode • OS Control Mode
Pre-boot Network Settings	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **Pre-boot Network Environment**	Sets a preference for how your network boot targets appear in the **UEFI Boot Order** list.	• Auto • IPv4 • IPv6
Processor AES-NI Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Processor AES-NI Support**	Enables or disable the Advanced Encryption Standard Instruction Set in the processor.	• Enabled • Disabled • Force Enabled
Processor Prefetcher Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Processor Prefetcher Options**	Provides optimal performance for most environments.	• HW Prefetcher Adjacent Sector Prefetcher • DCU Stream Prefetcher • DCU IP Prefetcher • XPT Prefetcher
Processor x2APIC Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Processor Options** > **Processor x2APIC Support**	Enables or disables x2APIC support.	• Enabled • Disabled • Force Enabled
Product ID	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Advanced Service Options** > **Product ID**	Specifies the product ID number after the system board is replaced.	N/A
Reboot the System	System Utilities main screen	Reboots the system.	N/A

Table Continued

Option	System Utilities menu path	Use	Settings
Redundant Power Supply Mode	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Advanced Power Options** > **Redundant Power Supply Mode**	When Power Profile is set to Custom, sets how the system handles redundant power supply configurations.	• Balanced Mode • High Efficiency Mode (Auto) • High Efficiency Mode (Odd Supply Standby) • High Efficiency Mode (Even Supply Standby)
Removable Flash Media Boot Sequence	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **USB Options** > **Removable Flash Media Boot Sequence**	Selects which USB or SD card devices to search first when enumerating boot devices.	• Internal SD Card First • Internal Drive Keys First • External Drive Keys First
Reset all keys to platform defaults	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Secure Boot Settings** > **Advanced Secure Boot Options** > **Reset all keys to platform defaults**	Resets all keys to platform defaults.	N/A
Restore Default Manufacturing Settings	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Default Options** > **Restore Default Manufacturing Settings**	Resets all BIOS configuration settings to their default manufacturing values, and deletes all UEFI non-volatile variables.	• No, cancel the restore procedure. • Yes, restore the default settings.
Restore Default System Settings	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Default Options** > **Restore Default System Settings**	Resets all BIOS configuration settings to their default values, and immediately and automatically restarts the server.	• No, cancel the restore procedure. • Yes, restore the default settings.
ROM Selection	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **ROM Selection**	On a server with redundant ROMs, reverts the server to a previous BIOS ROM image.	• Use Current ROM • Switch to Backup ROM
SATA Secure Erase	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **SATA Controller Options** > **SATA Secure Erase**	Enables or disables SATA Secure Erase functionality.	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
Select Bootable Logical Device	**System Configuration** > **<controller>** > **Set Bootable Device(s) for Legacy Boot Mode** > **Select Bootable Logical Drive**	Sets the logical drive as either the primary or secondary bootable device.	• Set as Primary Bootable Device • Set as Secondary Bootable Device
Select Language	System Utilities main screen	Selects the language used by the system.	N/A
Serial Number	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Advanced Service Options** > **Serial Number**	Shows the system board serial number.	N/A
Service Contact Information	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Asset Information** > **Service Contact Information**	Specifies service contact information for the server administrator.	N/A
Set Admin Password	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Set Admin Password**	Sets an administrator password.	N/A
Set Power On Password	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Set Power On Password**	Sets a password for accessing the server during the boot process.	N/A
Server Information	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Asset Information** > **Server Information**	Specifies reference information for the server administrator.	N/A
Server Configuration Lock	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Server Configuration Lock Settings**	Configures the options for server configuration lock feature.	• **Server Configuration Lock Challenge required**: Select **Enabled** or **Disabled**. • **Prepare system for Transport**: Select **Enabled** or **Disabled**. • **Halt on Server Configuration Lock failure detection**: Select **Enabled** or **Disabled**.
Setup Browser Selection	System Utilities main screen	Sets the type of browser used when you access System Utilities.	• GUI • Text • Auto

Table Continued

Option	System Utilities menu path	Use	Settings
Shell Auto-Start Script Location	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Shell Auto-Start Script Location**	Specifies the location of the Embedded UEFI Shell startup script.	• Auto • File Systems on Attached Media • Network Location
Shell Script Verification	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **Shell Script Verification**	Enables or disables Shell script verification.	• Enabled • Disabled
SR-IOV	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Virtualization Options** > **SR-IOV**	Enables or disables the BIOS to allocate more PCI resources to PCIe devices.	• Enabled • Disabled
Sub-NUMA Clustering	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Sub-NUMA Clustering**	Divides the cores, cache, and memory of the processor into multiple NUMA domains.	• Enabled • Disabled
System Health	System Utilities main screen	Shows the health status of all devices in the system.	N/A
System Information	System Utilities main screen	Shows system information.	N/A
System Intrusion Detection	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **System Intrusion Detection**	Enables or disables detecting system intrusions.	• Enabled • Disabled
Thermal Configuration	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Fan and Thermal Options** > **Thermal Configuration**	Selects the fan cooling method for the system.	• Optimal Cooling • Increased Cooling • Maximum Cooling
Thermal Shutdown	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **Fan and Thermal Options** > **Thermal Shutdown**	Configures the system to shut down when a fan failure occurs in non-redundant fan mode.	• Enabled • Disabled
TPM FIPS Mode Switch Operation	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Advanced Options** > **TPM FIPS Mode Switch Operation**	Sets whether TPM operates using the Federal Information Processing Standard.	• No Action • Regular mode • FIPS mode

Table Continued

Option	System Utilities menu path	Use	Settings
"TLS (HTTPS) Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **TLS (HTTPS) Options**	Provides options for viewing, enrolling, deleting, exporting, resetting, and selecting advanced settings for TLS certificates	Varied, depending on configuration
Trusted Platform Module options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **Trusted Platform Module Options**	On servers with a Trusted Platform Module (TPM), sets configuration options.	Varied, depending on configuration
UEFI Boot Order	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **UEFI Boot Settings** > **UEFI Boot Order**	Changes the order in which entries in the UEFI Boot Order list boot.	Varied, depending on configuration
UEFI Boot Order Control	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **UEFI Boot Settings** > **UEFI Boot Order Control**	Enables or disables individual UEFI boot options.	Varied, depending on configuration
UEFI Optimized Boot	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Boot Options** > **UEFI Optimized Boot**	Controls whether the system BIOS boots using native UEFI graphic drivers.	• Enabled • Disabled
UEFI POST Discovery Mode	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Boot Time Optimization** > **UEFI POST Discovery Mode**	Controls how the system loads UEFI device drivers.	
UEFI Shell Script Auto-Start	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Embedded UEFI Shell** > **UEFI Shell Script Auto-Start**	Enables or disables automatic execution of the Embedded UEFI Shell startup script during Shell startup.	• Enabled • Disabled
Uncore Frequency Scaling	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Power and Performance Options** > **Uncore Frequency Scaling**	Controls the frequency scaling of the processor's internal buses (the uncore).	• Auto • Maximum or minimum frequency
USB Boot Support	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **USB Options** > **USB Boot Support**	Configures whether the server can boot from connected USB devices.	• Enabled • Disabled

Table Continued

Option	System Utilities menu path	Use	Settings
USB Control	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **USB Options** > **USB Control**	Configures how USB ports and embedded devices operate at startup.	• All USB Ports Enabled • All USB Ports Disabled • External USB Port Disabled • Internal USB Port Disabled
User Default Options	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Default Options** > **User Default Options**	Saves or erases a configuration as the custom default configuration.	• Save User Defaults • Erase User Defaults
View Certificates	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Server Security** > **TLS (HTTPS) Options** > **View Certificates**	Shows TLS certificate details.	N/A
View System Health	**System Health** > **View System Health**	Shows the health status of all devices in the system.	N/A
Virtual Serial Port	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Serial Port Options** > **Virtual Serial Port**	Assigns a logical COM port address and the associated default resources used by the Virtual Serial Port.	• COM 1 • COM 2 • Disabled
VLAN Configuration	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Network Options** > **VLAN Configuration**	Sets the global VLAN configuration for all enabled network interfaces.	VLAN Control • Enabled (for VLAN ID and Priority setting) • Disabled
Wake-On LAN	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **System Options** > **Server Availability** > **Wake-On LAN**	Sets whether the system can be powered up remotely using a WOL-capable NIC.	• Enabled • Disabled
Workload Profile	**System Configuration** > **BIOS/Platform Configuration (RBSU)** > **Workload Profile**	Sets power and performance settings for application workloads.	Varied, depending on configuration.

Websites

General websites

Hewlett Packard Enterprise Information Library

www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

www.hpe.com/storage/spock

Storage white papers and analyst reports

www.hpe.com/storage/whitepapers

UEFI Specification

www.uefi.org/specifications

UEFI Learning Resources

www.uefi.org/learning_center

RESTful API Tool

https://www.hpe.com/info/redfish

Contact Hewlett Packard Enterprise Worldwide

https://www.hpe.com/assistance

Subscription Service/Support Alerts

https://www.hpe.com/support/e-updates

Software Depot

https://www.hpe.com/support/softwaredepot

Customer Self Repair

https://www.hpe.com/support/selfrepair

Insight Remote Support

https://www.hpe.com/info/insightremotesupport/docs

For additional websites, see **Support and other resources**.

Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:

  https://www.hpe.com/info/assistance

- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:

  https://www.hpe.com/support/hpesc

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:

  Hewlett Packard Enterprise Support Center

  https://www.hpe.com/support/hpesc

  Hewlett Packard Enterprise Support Center: Software downloads

  https://www.hpe.com/support/downloads

  Software Depot

  https://www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:

  https://www.hpe.com/support/e-updates

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:

  https://www.hpe.com/support/AccessToSupportMaterials

IMPORTANT: Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

HPE Get Connected

https://www.hpe.com/services/getconnected

HPE Proactive Care services

https://www.hpe.com/services/proactivecare

HPE Datacenter Care services

https://www.hpe.com/services/datacentercare

HPE Proactive Care service: Supported products list

https://www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list

https://www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central

https://www.hpe.com/services/proactivecarecentral

Proactive Care service activation

https://www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options

https://www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise and Cloudline Servers

https://www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products

https://www.hpe.com/support/Storage-Warranties

HPE Networking Products

https://www.hpe.com/support/Networking-Warranties

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

https://www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

https://www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

https://www.hpe.com/info/environment

Documentation feedback

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