

Overview

Smart Update Manager

Smart Update Manager (SUM) is the Hewlett Packard Enterprise deployment engine for updating firmware, drivers, agents and configuration tools for HPE ProLiant and Integrity servers, HPE BladeSystem infrastructure, Moonshot and options. SUM provides a browser-based graphical user interface as well as a command-line scriptable interface (CLI) and interactive CLI.

SUM has an integrated hardware and software discovery engine that finds the installed hardware and current versions of firmware and software in use on target servers. This capability prevents extraneous network traffic by sending only the required components to a target host. SUM installs updates in the correct order and ensures that all dependencies are met before deploying an update. It also minimizes downtime by deploying all updates while the target servers are online, limiting the downtime to a single reboot in most cases.

SUM does not require an agent for remote installations, because it places an OS-specific replica of itself on the target node for the duration of the installation. After the installation is complete, the SUM software and all remote files associated with the installation are removed from the target nodes. At that time SUM also copies the log files from the targets back to the system where SUM is executed.

What's New

SUM 7.6.0:

- AHS (Active Health System) Log Enhancements
 - Added FW and SW deployment information to AHS logs (Windows and Linux)
 - Speeds problem resolution by providing HPE services with additional information to root cause and resolve issues
- Onboard Administrator FIPS Mode
 - Prevents attempting unsupported Onboard Administrator FW downgrades & rewrites
 - Complies with FIPS security standards
- Port Scan added to Find Nodes
 - Improved usability by providing the ability to find a node via a port scan
- Trusted Platform Module (TPM) and Trusted Module (TM) handling with iLO Federation
 - Added TPM 2.0 & 1.2, TM 1.0 support for iLO federation
 - Displays warning and ability to cancel or override and proceed with updates
- Added Directory Flexibility
 - Improved usability by adding the ability to create a new folder on the fly (without leaving SUM) when an empty directory is needed
- Improved custom baseline filtering

Product Features

SUM Features

- Browser-based graphical user interface, interactive command-line interface and command-line/scriptable interface for increased flexibility
- Dependency checking, which ensures appropriate component installation order based on known dependencies between components in each server, as well as between BladeSystem servers and infrastructure
- Simultaneous firmware and software deployment for multiple remote targets in GUI, Interactive CLI and CLI/scripted modes
- Automatic discovery of associated targets: iLO management processors and Onboard Administrator and BladeSystem interconnects. In HPE ProLiant Gen8 servers running the Agentless Management Service (AMS), SUM will also find the association between iLO management processors and the servers
- Improved online capability with minimal downtime, when updating entire BladeSystem enclosures including Onboard Administrator and Virtual Connect modules
- Reporting capabilities
- Localization support for Linux package configuration
- Native x64 versions
- Available as separate download in ISO, RPM, or Zip formats
- Supports HPE ProLiant, HPE Integrity servers and Moonshot
- Warning for HPE-UX low disk space availability
- Ability to automatically install the PCIINFO Depot on older installations
- Ability specify location where reports are stored
- Increased scalability up to 50 nodes
- Scalability with iLO Federation Management
 - Automatically discover the iLO Federation Groups on the management network using multicast technology as well as manually adding them
 - Update the iLO and ROM firmware online on HPE ProLiant servers in the iLO Federation Group via the iLO
 - Update all applicable firmware on HPE ProLiant servers in the iLO Federation Group via the iLO using offline firmware deployment
 - Ability to apply updates to all members of an iLO Federation group (advanced iLO license required)

Baseline Features:

- Improved import/export component configuration
- VCRM compliant Custom Baselines
- Sequencing of HPUX and iLO or n/Par node update – one reboot
- Local and remote (one-to-many) online deployment in one session
- Local host guided update
- Flexible baseline customization capabilities with the option to create a bootable ISO image from any baseline
- Enhanced Delete Baseline to report which nodes are referencing the baseline to be deleted
- Validate Baseline which verifies that all the files are present in the baseline
- Ability to download a baseline from <http://www.hpe.com> or an HTTP server using the interactive CLI
- With Custom Baseline, ability to perform dynamic filters for package selection based on the packages in the baseline, filter by server model and filter to create an HPE CloudSystem Matrix custom baseline
- Ability to download a baseline from an HTTP server
- Ability to abort downloading a baseline from <http://www.hpe.com> or an HTTP server
- Download baseline from hpe.com now requires users to input their HPE Support Center entitlement token in order to download entitled components delivered with the Service Pack

Product Features

for ProLiant.

Deployment:

- Node Deployment user interface has been modified to include Easy and Advanced modes as well as a component dashboard. With both modes, SUM will present the components that can be installed on the node but now also provides estimated deployment time and component criticality information. Easy mode allows users to modify a few installation options and deploy the SUM recommended components in a single step. Advanced mode allows users to modify both installation and reboot options and individually select which components to deploy.
- Ability to deploy firmware and software from Windows workstations/server to Linux servers
- Ability to deploy firmware to VMware servers from a Windows or Linux workstation/server
- Ability to specify a baseline for deploying packages to the localhost
- Local offline firmware updates using the SUM or Service Pack for ProLiant bootable-ISO image
- Remote offline deployment using the HPE Scripting Toolkit or iLO Virtual Media
- Deployment of VMware VIBs and Linux firmware RPMs
- Enhanced deployment experience by viewing logs during the deployment process (Live logs)
- Enhanced hard disk drive firmware deployment for selective HDD update (limited to firmware packages that supports this)
- Added warning when deploying to nodes with HPE Service Guard for HPE-UX or Linux
- Only required updates are deployed

Additional SUM Features for Integrity Servers

- Ability to deploy platform, IO and HDD firmware to Integrity BL800c i2 and i4, rx2800 i2 and i4, and Superdome 2 servers from a Windows or Linux workstation/server

Online Deployment

Smart Update Manager supports online deployments of firmware for Windows®, Linux and VMware operating systems. Additionally, system software deployment is supported for Windows® and Linux operating systems. Supported options include, but not limited to the following:

- System ROMs
- Lights-Out Management ROM flash components
- Smart Array controller
- System hard-drive firmware (SAS and SATA)
- Tape Libraries
- NICs
- Fibre Channel HBAs
- HPE Onboard Administrator for HPE c-Class BladeSystem
- Virtual Connect modules
- SAS BL c-class switches
- Selected Fibre Channel switches
- Intelligent Power Distribution Units

NOTE: The Onboard Administrator, Virtual Connect, and HPE 3-GB/6-GB SAS BL Switch firmware update is supported only in online deployments.

NOTE: HPE SUM does not support third-party controllers. This includes flashing hard drives behind these controllers.

Multiple Host Installations Using SUM GUI

Provides an easy-to-use browser-based graphical interface that enables deployment and maintenance of system software and firmware components to multiple systems in a single session.

Scripted Deployment

Command-line interface (CLI) and interactive command-line interface enables you to script custom

Product Features

installations.

Trusted Platform Module (TPM)

The TPM, when used with BitLocker, measures a system state and, upon detection of a changed ROM image, restricts access to the Windows file system if the user cannot provide the recovery key. Smart Update Manager detects if a TPM is enabled.

Multiple baselines

Allows creation and maintenance of one or multiple custom baseline. Each target node can be associated with a specific baseline. HPE SUM provides the capability to create bootable ISO images from custom baselines.

Discovery and target selection

Supported target types include: ProLiant and Integrity servers, iLO management processors, Onboard Administrator (OA), c-class SAS BL Switches and Virtual Connect (VC) modules. In BladeSystem environments SUM will find target associations between Onboard Administrator, iLO management processors and Virtual Connect Modules. When used with ProLiant Gen8 servers with Agentless Management Service (AMS) installed, SUM will find those servers associated to their iLO management processors.

Reboot

Reboots (when needed) can be delayed independently to occur at convenient times.

Delivery Information

Smart Update Manager is delivered in several Hewlett Packard Enterprise firmware and system software maintenance and management deliverables:

Smart Update Manager This download contains the SUM deployment application without any firmware or software update files.

Service Pack for ProLiant This deliverable contains the latest version of SUM and the firmware and system software for a wide range of HPE ProLiant servers, BladeSystem enclosures and options.

HPE Integrity Firmware Bundles These deliverables contain SUM and firmware for Integrity BL8x0c i2 and i4, rx2800 i2 and i4, and Superdome 2 servers

Moonshot Component Packs

These deliverables contain HPE SUM and firmware for Moonshot servers.

Usage Scenarios

Interactive (GUI) on local host

Running SUM on the system being updated. This method is ideal when only a single system needs updating and for people less comfortable with using command-line tools. It gives maximum control over the updates to be performed with a very transparent graphical user interface.

Scripted on a local host

Running SUM from a network share on a local host. This method is ideal for people that are familiar with command-line tools and scripting environments that must perform a customized update on a single system.

Interactive (GUI) to one or many remote hosts

Running SUM on a workstation or server, updating remote systems. This method is ideal when updating multiple systems, possibly including Onboard Administrator and Virtual Connect for people less comfortable with using command-line tools. It takes all relevant interdependencies into account while everything is presented in a very accessible graphical user interface.

Scripted to one or many remote hosts

Running SUM on a workstation or server, updating remote systems. This method is ideal for people that are familiar with command-line tools and scripting environments that must perform large-scale, consistent updates on multiple systems, possibly including Onboard Administrator and Virtual Connect.

Benefits

Increases ease of server management

- Easy discovery of all supported devices
- Integrated acquisition of the latest updates
- Full insight in dependencies, including those of the Onboard Administrator and Virtual Connect
- Reboots can be "forced always", "as needed", "delayed" (OS-

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controlled, up to 60 minutes) or "not" (assuming a manual reboot at a later time)

- Supports online updates of all ProLiant firmware, drivers, agents and tools (for Windows and Linux targets; some firmware can be updated online in VMware ESXi 5.0, vSphere 5.1 and higher)
- Fully integrated with Service Pack for ProLiant
- Enhances IT staff productivity while reducing downtime

Integral part of the HPE server experience

SUM keeps firmware, drivers and agents up to date, while taking into account all interdependencies, with a minimum of impact on system uptime and user productivity.

Reliable operation

With its agentless operation, efficient device discovery, baseline management and download acquisition, completed by built-in interdependency information and extensive reporting, SUM offers the industry's most reliable way of keeping your Hewlett Packard Enterprise system software up to date.

Simplified delivery of ProLiant and Integrity system software

SUM provides reduced customer:

- Qualification cycles
- Resource usage
- Maintenance windows
- Downtime

Service and Support

Service and Support

NOTE: SUM is supported as a part of the Hewlett Packard Enterprise Server Infrastructure. No separate care packs are needed to be purchased.

HPE Technology Services for Industry Standard Servers

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HPE Pointnext operational services

HPE Pointnext operational services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

Get Proactive Notification of Upcoming Software with Subscriber's Choice

Proactive delivery of Product Change Notifications (PCNs), Customer Advisories (CAs), and software driver alerts are delivered through Subscriber's Choice. We encourage you to begin taking advantage of the feature-rich notifications delivered from Hewlett Packard Enterprise Subscriber's Choice at: <http://www.hpe.com/info/myadvisory>.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

Summary of Changes

Date	Version History	Action	Description of Change
23-Oct-2017	Version 12	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
15-Aug-2016	From Version 10 to 11	Changed	Updated Overview and What's New sections.
31-Mar-2016	From Version 9 to 10	Changed	Overview and Product Features were revised.
28-Sep-2015	From Version 8 to 9	Changed	What's New and Product Features were updated.
01-Jun-2015	From Version 7 to 8	Changed	Overview, What's New and Product Features were revised.
30-Mar-2015	From Version 6 to 7	Changed	What's New, Product Features, and Service and Support were revised.
09-Sep-2014	From Version 5 to 6	Changed	Overview and Product Features were revised. Note that the title has changed.
05-Jun-2014	From Version 4 to 5	Changed	Product Features was revised.
18-Feb-2014	From Version 3 to 4	Added	Added the HPE SUM Features section.
11-Sep-2013	From Version 2 to 3	Changed	Overview and Product Features were revised.
28-Jun-2013	From Version 1 to 2	Changed	Overview and Product Features were revised.



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