

Overview

HPE OneView

The foundation of software-defined infrastructure

HPE OneView lets businesses simplify and automate today's complex hybrid IT infrastructure. Through software-defined intelligence, HPE OneView takes a template-driven approach for deploying, provisioning, updating, and integrating compute, storage, and networking infrastructure. Designed with a modern, standards-based API, HPE OneView also helps users develop applications faster through integrations with a broad ecosystem of third-party management services and tools.

Now businesses can simplify their hybrid IT infrastructure with one easy to use interface. HPE OneView efficiently and securely manages traditional IT, while increasing the speed of IT delivery for new applications and services. HPE OneView supports HPE's broad portfolio of servers, storage, and networking solutions, ensuring the simple and automated management of a hybrid infrastructure today and in the future. In addition, HPE OneView's integration with partner cloud tools lets businesses better manage their core to cloud workloads.

HPE OneView supports HPE Synergy, HPE BladeSystem, HPE ProLiant (DL and ML) servers, HPE Apollo Systems, HPE Superdome X, 3PAR StoreServ, HPE Nimble and StoreVirtual VSA storage, HPE Networking, and HPE ConvergedSystem.

What is New with HPE OneView update release 5.00.01

Server

- Support for latest HPE ProLiant Gen10 Plus servers.

Storage

- Policy based deployment, automated pool based provisioning and SAN zoning for all Primera storage models.

What's New with HPE OneView 5.0

Server

- New firmware compliance dashboard allows simplifies firmware management compliance at scale
- Upgraded user interface provides better navigation and access to common tasks in just few clicks
- Improved server management with online updates and extended iLO configurations

Storage

- Provisioning for SAN volumes for HPE ProLiant DL and Apollo servers within a matter of minutes

Partner Integrations

- HPE OneView for Microsoft System Center adds support for health monitoring and alert support for HPE Composable Cloud for ProLiant DL fabric and switches, auto-discovery of ProLiant for Azure Stack servers, and support for HPE Primera storage.
- HPE OneView for Microsoft Azure Log Analytics adds consolidated dashboard views for HPE ProLiant for Azure Stack clusters and component level devices for on-premises HPE hardware and firmware inventory, health status, and alert analysis using cloud based Microsoft Azure Log Analytics.
- HPE OneView for VMware vCenter adds support for integrated OS deployment, additional port status information, feature level access control, Grow Cluster enhancements for distributed switches and multi-NIC vMotion, and support for HPE Primera storage.
- HPE OneView of VMware vRealize Orchestrator (VRO) provides an easy-to-use, drag and drop access to automation of HPE OneView managed hardware deployment and firmware updates, including new workflows for iLO Virtual Media ESXi OS installation, online firmware updates, and import hosts and clusters using vRealize Orchestrator.
- HPE OneView for VMware vRealize Operations adds support for HPE Composable Cloud for ProLiant DL, enhanced interconnect resource utilization reporting, Synergy Appliance Bay reporting and HPE Remote Support alerts for SAS interconnects and drive enclosures.

Overview

What is New with HPE Global Dashboard 1.91

- HPE Primera support
- Renamed the “Appliances Alerts” to “Resource Alerts” in dashboard and resource page

What is New with HPE Global Dashboard 1.9

Reports

- Enhanced report customization including enabling / disabling sections of the report
- Added enclosure model to Inventory report
- Added report generation time

Resources

- Resource lists can now be exported in CSV format

Security

- Simplified certificate handling including self-signed certificate creation and forced certificate acceptance

Standard Features

HPE OneView enables customers to build a software-defined infrastructure:

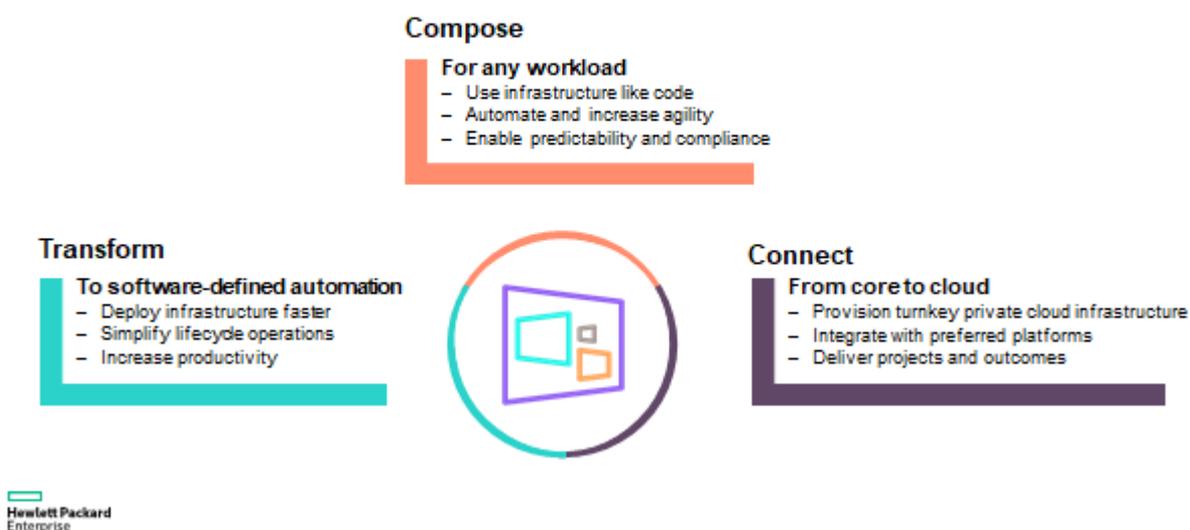
Transform by automating complex tasks that will allow them to deploy their infrastructure faster, simplify lifecycle operations and increase their productivity.

Compose new infrastructure like code that will increase agility, enable predictability and provide better compliance due to the workloads remaining consistent.

Connect their new software-defined infrastructure by integrating third party tools within HPE OneView to help manage on-prem (core) to cloud workload requirements.

HPE OneView

The foundation of software-defined infrastructure



Transform with software-defined automation

Using HPE OneView, IT specialists create a catalogue of workload optimized infrastructure templates, which allows generalists to rapidly and reliably provision compute, storage, and fabric resources. These templates also can quickly provision physical, virtual, and containerized systems including BIOS settings, local RAID configuration, firmware baseline, and shared storage and more. Software-defined intelligence allows IT to run multiple applications simultaneously with repeatable templates that ensure high reliability, consistency, and control. Embedded automation also speeds provisioning and lowers operating expenses.

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HPE OneView simplifies lifecycle management across the entire infrastructure. IT can apply firmware and driver updates within the template, which ensures more advanced self-monitoring and maintenance tools and frictionless updates for important lifecycle ops like firmware and driver updates.

A consolidated and easy to use interface in HPE OneView provides a unified view of the health of servers, profiles, enclosures, storage, and networking. IT can also proactively monitor the health of the entire infrastructure, sending alerts before issues create any downtime.

Standard Features

The HPE OneView Global Dashboard extends this unified view across multiple datacenters anywhere in the world, providing a simple, efficient and unified view of the shared storage pools and the health status of servers, profiles and enclosures. This means better infrastructure visibility and more informed, faster decision-making.

In addition, HPE OneView enables you to receive 24x7 monitoring, pre-failure alerts, automatic call logging, automatic parts dispatch and contract/warrant display through integrated remote support. HPE Proactive Care Services are also available to provide a personalized and proactive hands-on approach to maintaining an agile, healthy and reliable infrastructure.

Compose for any workload

Once IT software-defined IT processes with HPE OneView, IT administrators can easily compose on-premises physical infrastructure and manage it as code. The physical infrastructure of the datacenter is defined using software, which makes it programmable and able to be managed through one unified API. Using software templates, a single line of code can fully describe and compose all the physical resources required for an application, a virtual host, or a container infrastructure. This capability eliminates time-consuming scripting, allowing users to reduce the time it takes to compose new infrastructure.

When the infrastructure of the business needs to grow, profiles create new templates that spread across servers, storage, and networking simultaneously, automating the provisioning process over and over again. Composing new infrastructure is not only faster and more agile, it is also predictable because automation removes human error.

The HPE OneView unified API also provides performance, health, and configuration data to datacenter infrastructure management (DCIM) applications, which ensures a unified view of the infrastructure. These capabilities ensure IT spends less time managing infrastructure and more time creating value for the business.

A growing list of ISV partners are taking advantage of the unified API in HPE OneView, providing businesses with a wide range of automation tools. These Composable integration partners range from large software suites like VMware® vCenter and Microsoft® System Center to focused solution providers like PowerShell, Ansible, Chef, Puppet, and Python.

Connect from core to cloud

HPE OneView enables IT administrators the ability to connect their software-defined infrastructure from core to cloud by provisioning turnkey private cloud infrastructure with a diverse partner ecosystem. IT organizations can leverage the partner ecosystem to integrate HPE OneView within their existing management frameworks with their preferred platforms. These capabilities allow teams to deliver projects consistently while meeting desired outcomes for key stakeholders.

Through HPE OneView integrations with ecosystem partners, IT administrators can automate deployment of modern enterprise applications. Operations of large scale production environments are streamlined because IT administrators no longer need to spend valuable time writing, debugging, and updating custom scripts. HPE OneView customers can now transform their infrastructure, compose every workload, and connect from core to cloud while still working with the composable ecosystem partners such as Morpheus, MicroFocus, CANCOM and as well as HPE OneSphere.

Standard Features

Supported Products

User Experience

A unified user experience is provided in HPE OneView to simplify everyday tasks and processes. Converged management provides you with a variety of powerful, easy-to-use tools in a single interface that's designed for the way you think and work:

- **Map View** allows you to visualize the relationships between your devices, up to the highest levels of your datacenter infrastructure.
- **Dashboard** provides capacity and health information at your fingertips. Custom views of alerts, health, and configuration information can also be displayed for detailed scrutiny.
- **Smart Search** instantly gets you the information you want for increased productivity, with search support for all the elements in your inventory (for example, to search for alerts).
- **Activity View** allows you to display and filter all system tasks and alerts
- **Mobile access** using a scalable, modern user interface based on HTML5.
- **Global Dashboard** - For those needing enterprise scale functionality, the HPE OneView Global Dashboard provides customers with a unified view of the health of their servers, profiles and enclosures across multiple virtual and physical appliances. The HPE OneView Global Dashboard also provides centralized management of alerts and core inventory data. In context launch to HPE OneView, iLO, and Onboard administrator via single sign-on also means that you are only one click away from powerful device-level lifecycle management. At no additional cost, customers can simply download and install this feature that runs alongside HPE OneView, allowing them to view their HPE BladeSystem c-Class, HPE ProLiant DL, HPE Synergy, HPE Hyper Converged 380, HPE SimpliVity 380, HPE Apollo, HPE ML350 Gen9, HPE Composable Cloud for Dand HPE Superdome FLEX
- **Dynamic collaboration** among experts replaces static and manual use of whiteboards, sticky notes, emails, and spreadsheets. The single integrated platform provides 'one view' across the converged infrastructure, enabling collaboration through real-time, context-sensitive information sharing.
- HPE OneView continues to advance software-defined intelligence with a new updated user interface for provisioning, updating, and integrating compute, storage, and networking infrastructure. This UI update makes HPE OneView even easier to use

Management appliance

The HPE OneView management appliance is the **lifecycle management** tool that provisions, monitors, updates, and repairs your infrastructure. It is delivered as a virtual appliance running in a VMware ESXi, Microsoft Hyper-V, or KVM virtual machine. The appliance is 'OS-agnostic' ---- for example, it can manage servers running both Windows and Linux operating systems. Appliance upgrade support is also provided to help existing users to move to the current version of HPE OneView.

HPE OneView provides a **secure platform for data center management**. Key security characteristics of the architecture provide a holistic basis for security:

- Separation of the data and management planes is critical to avoid takeover in Denial of Service (DoS) attacks.
- Use of groups incorporates and institutionalizes best security practices for compliance.
- Provisioning control assures standardization in mass deployments.
- Deployed via a hardened appliance platform.

Industry-standard enterprise Directory Services are utilized to confirm user identification and to control access to compute resources. This allows one administrator to quickly set up authentication and authorization for each user, as appropriate to their responsibilities and organizational associations, for specific categories of compute resources.

Role-based access control (RBAC) restricts system access to authorized users.

Scopes enables creation of any logical group of enclosures, server hardware, networks or LIGs. Can create a logical group based on business unit – finance, sales etc or could be by OS installed on the servers – Windows, Linux, ESX

Standard Features

Single-sign-on (SSO) to iLO and Onboard Administrator is provided in HPE OneView. All user actions are logged in an audit log. Options for LDAP/AD-based directory services authentication and authorization are also supported.

The HPE OneView **management appliance is security-hardened** with limited open ports, limited access to the command prompt, and a restricted "kiosk" graphical user interface (which prevents access to the underlying operating system and other software). Sensitive data on the appliance is encrypted and data downloaded from the appliance is encrypted by default (e.g. support dumps, backup files).

Appliance backups for the HPE OneView management appliance utilize a specific user role which does not permit access to other resource views and tasks. Backup files are encrypted and contain configuration settings and management data. There is no need to create separate backup files for the appliance and its database files. Backups can be created while the HPE OneView appliance is online, and the backup process can be scheduled from outside the management appliance with file collection set according to your site's policies. Can be scheduled daily or weekly and can be performed on demand. It can back up to a remote share.

HPE OneView Remote Support

HPE OneView provides integrated remote support that is part of the appliance. The customer can easily and securely register for remote support after providing contact information and any support partner details. Remote support can be enabled for all eligible devices, or for single devices at a time. Hardware failures will automatically trigger a support case to be opened with HPE. The Case ID is provided in the OneView Service Event, with further case status updates via optional integration with Insight Online. HPE OneView Remote Support also provides contract & warranty information per device, and weekly alerts, with a downloadable CSV file listing any devices that have expired or are within 90, 60 or 30 days of expiry.

HPE OneView Remote Technician

Speed issue resolution with HPE OneView Remote Technician. With HPE OneView Remote Technician, troubleshooting and resolving support issues is faster and easier. At your invitation, authenticated HPE Support technicians access your HPE OneView appliance through a secure TLS connection to troubleshoot and diagnose issues.

You do not have to be present when a trusted HPE Support technician diagnoses the issue, including downloading logs directly without the need for an FTP site. HPE OneView Remote Technician is built into HPE OneView 4.1 and later – no additional applications needed. To access HPE OneView Remote Technician, open the Diagnostics menu within the HPE OneView Settings page.

Note that it does not require HPE OneView Remote Support.

Licenses

The HPE OneView management appliance controls licenses. The same management appliance can be used for both HPE OneView Advanced licenses and for HPE OneView Standard. This choice is made by the user when they initially add their system to the HPE OneView management appliance.

- **HPE OneView Advanced** provides full-featured licenses which can be purchased for managing Gen8, Gen9 and Gen10 servers. All HPE OneView Advanced versions are licensed 'per physical server.' These licenses include three years of 24x7 Technical Support and Updates (TS&U) with web-based training (WBT) to build basic product proficiency. Full HPE OneView Advanced licenses also provide 'integrated licensing' rights-to-use HPE Insight Control at no additional charge, while HPE Insight Control is still available. Trial versions of HPE OneView Advanced can be used for 60-days without charge.
- **HPE OneView Standard** can be used for inventory, health monitoring, alerting, and reporting without additional fees. HPE OneView Standard can monitor G6, G7, Gen8, Gen9 and Gen10 servers. The user interface is similar to the HPE OneView Advanced version, but the software-defined functionality is not available. An annual 9x5 support offering is available for additional fee.

HPE OneView Advanced licenses are available in a variety of types to meet different user needs:

Standard Features

- **Standalone licenses** can be ordered by the customer without any other restrictions. Customers will receive a license entitlement certificate, which must be redeemed online to obtain the license activation key, and then the key input into the management appliance.
- **Factory integrated licenses** are purchased with HPE ProLiant servers and HPE BladeSystem and provide a 'Connect and Go' user experience. License keys are preloaded on the systems and are immediately managed by the HPE OneView management appliance when connected.
- **Tracking licenses** provide customer-specific, pay-as-you-go enterprise licensing. Tracking licenses require customer pre-approval of an Activation Key Agreement (AKA) contract. For more information, see <http://www.hpe.com/info/AKA>
- **Upgrade licenses** are available to transition from HPE Integrated Lights-Out (iLO) Advanced, HPE Insight Control, or HPE Virtual Connect Enterprise Manager (VCEM).
NOTE: Upgrades do not provide HPE iLO Advanced licenses or 'integrated licensing' rights-to-use HPE Insight Control.

Software versions The HPE OneView management appliance controls the licenses, and it can be obtained from [HPE Software Depot](#)

Automated Storage Provisioning HPE OneView provides automated, policy-driven provisioning of storage resources. It is fully integrated with server profiles so that you can provision and manage SAN storage used by a server as you manage the server – all as a single resource. The software-defined nature of HPE OneView enables you to:

- View and monitor your storage systems and their storage pools,
- Provision new or existing SAN storage volumes for servers
- Have OneView configure load balanced, redundant data paths from servers to their SAN storage volumes
- Create volume templates to provision multiple volumes with the same configuration.

Automate SAN zoning on Fiber Channel SANs

Switched fabric, and direct attach (FlatSAN) SAN topologies are supported to configure data paths between HPE OneView managed servers and HPE 3PAR StoreServ and StoreVirtual Storage Systems. HPE OneView supports the following infrastructure devices:

- HPE 3PAR StoreServ Storage systems connected directly to an enclosure. (FC protocol)
- HPE 3PAR StoreServ Storage Systems connected to HPE B-series or Brocade Fiber Channel SAN switches (SANs - managed through the HPE B-Series SAN Network Advisor or Brocade Network Advisor (BNA) software) (FC protocol)
- HPE FlexFabric SAN switches (FC or FCoE protocol)
- Cisco Nexus/MDS switches (FC or FCoE protocol)
- HPE StoreVirtual Storage Systems connected via Ethernet (iSCSI protocol)

Automatic SAN zoning

You can add Storage Area Network (SAN) Managers into OneView to enable automated SAN zoning on the SAN. Managed SANs can be associated with Fiber Channel networks on the appliance to enable automated zoning and automatic detection of Fiber Channel connectivity. HPE OneView automatically configures SAN zoning when constructing data paths from servers to SAN storage volumes – drive by server profile volume attachments. The latest release of HPE OneView provides faster provisioning for SAN volumes for HPE ProLiant DL and Apollo servers. Instead of taking hours to manually provision storage for DL and Apollo servers, HPE OneView automation allows IT administrators to complete the task in minutes with just a few clicks.

Brocade FOS REST api support

HPE OneView provides a migration path away from Brocade Network Advisor for automated SAN zoning to the new Brocade FOS REST api

Standard Features

Network management **Network management using HPE Virtual Connect**

HPE Virtual Connect provides **wire-once, change-ready environment** to make it easy for administrators to manage their dynamic network environment at the server edge. HPE OneView Advanced simplifies the deployment of various Virtual Connect environments: single enclosure, racks of enclosures in a single data center, and across data centers.

The software-defined nature of HPE OneView Advanced extends HPE Virtual Connect features using Profiles, Logical Interconnect Groups, and Network Sets to simplify management and capture best practices:

- **Profiles** enable servers that are licensed using HPE OneView Advanced to configure the Virtual Connect capabilities and support dynamic network changes. Virtual Connect administrators can change pre-existing connection networks and connection bandwidth without powering down blade servers.
- **Logical Interconnect Groups** are created for configuring the Virtual Connect module with its uplinks and associated networks, enabling efficient application to multiple Virtual Connect environments.

Network Sets are used to easily update multiple networks in various profiles from a single location, rather than updating each network separately. Network sets are useful in virtual environments where each profile connection needs to access multiple networks.

Fibre Channel support in HPE Virtual Connect includes the HPE Virtual Connect 8Gb 24-Port Fibre Channel Module and HPE Virtual Connect 8Gb 20-Port Fibre Channel Module, and FlexFabric supports the next-generation HPE Virtual Connect FlexFabric-20/40 F8 Module, HPE VC FC 8Gb 24-Port, and HPE VC FC 16Gb 24-Port.

Active-Active configuration support for Virtual Connect allows full use of all uplink ports in an uplink set, reduces the oversubscription rates for server-to-network-core traffic for more predictable traffic patterns, and provides faster link failure detection and failover times. Optimized for North/South traffic patterns, the Active/Active configuration support can be combined with the SmartLink to allow NIC teaming drivers to transmit on both adapter ports and maintain redundancy.

Advanced capabilities support untagged traffic, VLAN tunneling, and configurable Link Aggregation Control Protocol (LACP) timers, min/max bandwidth settings on connections, visibility to MAC address tables, 'per FlexNIC' traffic statistics and performance monitoring, and enhanced detection-protection-reporting of Pause Flood and Network Loops.

General network management

HPE OneView Advanced also provides network capabilities for HPE BladeSystem which do not use HPE Virtual Connect for networking. The 'Networking' section of the HPE OneView Advanced main menu has added a 'New Switches' resource to assist in these efforts. The following switches can be monitored: the Cisco Nexus 5548 switch, the Cisco Nexus 5596 switch, and the Cisco Nexus 6001 switch.

The Cisco Fabric Extender for HPE BladeSystem modules (also known as the B22HP interconnect module, or FEX) is modeled as part of the logical interconnects and logical interconnect groups. The power state of the FEX is also monitored, and inventory and FRU data is shown for the FEX and the Cisco Nexus 5000 series switches. HPE OneView also supports monitoring of networks provisioned to FEX, FEX port enable/disable.

Map View in HPE OneView Advanced shows relationships between the FEX and the parent top-of-rack Cisco Nexus 5000 or 6000 series switches. Other capabilities, like the bulk creation of Ethernet networks via the user interface and REST API, can provide additional productivity for users. HPE OneView simplifies VLAN provisioning by allowing configuration of uplinks and downlinks.

Standard Features

See the [HPE OneView technical documentation](#) for specific Virtual Connect and network hardware requirements.

System health

Efficient data views and effective control enable you to respond to issues for managing the health of HPE ProLiant servers. Both HPE OneView Standard and HPE OneView Advanced simplify monitoring by providing a streamlined, modern alert management architecture. When managed resources are added to the appliance, they are **automatically set up for monitoring**, including the automatic registration of SNMP traps and scheduling of health data collection. HPE ProLiant Gen8 and Gen9 servers are monitored immediately without requiring you to invoke additional configuration or discovery steps.

All monitoring and management of data center devices is **agentless and out-of-band** for increased security and reliability. No OS software is required, no open SNMP ports on the host OS are required (for Gen8, Gen9 and Gen10), and zero downtime updates can be performed for these embedded agents. HPE OneView uses SNMP in a 'read-only' mode (gets and traps, but not sets) to the iLO only – not to the host OS. HPE ProLiant G6 and G7 servers require host OS SNMP agents.

HPE OneView Standard and HPE OneView Advanced both provide **proactive alert notifications** via email (instead of using SNMP trap forwarding) **and automated alert forwarding**. You can view all alerts, filter your alerts, and search your alerts using HPE Smart Search. Alerts can be assigned to specific users and annotated with notes from administrators. Notifications or traps can be automatically forwarded to enterprise monitoring consoles or to centralized SNMP trap collectors. Admins can create **alert filters on groups of devices** – so different admins can only see the alerts for the systems that they are responsible for maintaining.

Customized dashboard capability allows you to select and display important inventory, health, or configuration information and to define custom queries for new dashboard displays. The single user interface provides additional summary views of firmware revisions and of the hardware inventory for servers, storage, and networks. Other data and inventory elements are visible through the user interface and REST API, and can be found using HPE Smart Search.

Firmware updates and Configuration change management

HPE OneView Advanced leverages and extends the HPE Smart Update portfolio of **HPE Service Pack for ProLiant (SPP)** and **HPE Smart Update Manager (HPE SUM)** for breakthrough system maintenance at the scale of your data center. HPE SPP and HPE SUM provide capabilities to systematically update HPE ProLiant servers and blade infrastructures with one-click simplicity. HPE OneView Advanced extends these capabilities with software-defined approaches and with firmware baselines for efficient, reliable, non-disruptive, and simple firmware management across the data center.

The firmware repository in HPE OneView Advanced allows you to manage multiple versions of HPE Service Pack for ProLiant (SPP). An SPP is a comprehensive collection of firmware and system software components (including drivers, agents, utilities, firmware packages for HPE ProLiant servers, controllers, storage, blades, enclosures, and other options). SPP collections are all tested together as a single solution stack. HPE OneView Advanced deploys the SPP across your environment according to your business practices and provides automatic firmware updates for a variety of uses:

- Identify firmware compatibility issues.
- Set a firmware baseline on devices to establish a desired firmware state.
- Add devices while performing minimum required firmware checks and highlighting out-of-compliance devices for updates with the selected firmware baseline.
- Update firmware for an entire enclosure, or individually for components.
- Apply firmware baselines to servers as a part of the server profile, while maintaining flexibility for specific servers to differ from an enclosure's baseline.
- Firmware updates in HPE OneView Advanced are driven by server profiles using HPE Smart Update Manager (HPE SUM) for efficiency at scale. Firmware update operations do not impact your production LAN in any way because they are performed entirely via the management LAN. These same processes can be used to simplify configuration change management across your data center.
- The latest release of HPE OneView introduces an innovative concept for managing firmware compliance at scale for all Gen10 servers as well as shared infrastructure for HPE BladeSystem and

Standard Features

Synergy. When a new firmware baseline (Service Pack for ProLiant) is loaded, HPE OneView generates a new Firmware Compliance view. HPE OneView will compare the installed firmware versions of the managed hardware with the new component versions in the added SPP and will generate this compliance report. Additionally, this feature allows the user to apply various filter views and export into excel and csv formats.

- This new approach provides a quick and easy way to identify critical security updates at scale. This feature automates compliance reporting and protects against configuration drift (which ensures configuration consistency across the infrastructure.)

Reports

Standardized reports are available to users of both HPE OneView Standard and HPE OneView Advanced. A pre-defined list of reports is available from the user interface or through the REST API. These reports can be exported to CSV or Microsoft Excel files.

Pre-defined reports include:

- Alerts Report
- Users Report
- Server Inventory
- Server Firmware Inventory
- Server Profiles Inventory
- Enclosure Bay Inventory
- Enclosure Inventor
- Interconnect Inventory

Reports are based on HPE OneView inventory, configuration, and health status information. Additional data and information can be obtained for custom reporting by querying the REST API.

Additional I reports like the Contract and Warranty and Licensing report are available with HPE OneView Global Dashboard.

Remote management (HPE iLO Advanced)

HPE OneView Advanced licenses **iLO Advanced**, HPE's **comprehensive lights-out remote management** solution for ProLiant servers. Numerous key features help to solve complex IT problems, including:

- **Remote access** to server power control and event logs.
 - **Graphical Remote Console** turns a supported browser into a virtual desktop, giving the user full control over the display, keyboard, and mouse of the host server. The OS-independent console displays remote host server activities (like shutdown/startup operations) and can be launched from the HPE OneView server profile page.
 - **Shared console and Console replay** allows up to six team members to view and share control of a single virtual KVM session, while capturing and saving screen video for later review.
 - **USB-based Virtual Media** allows an IT administrator to boot the remote server from the client machine (or anywhere on the client's network), and execute functions remotely.
 - **Integration with Microsoft Terminal Services** provides a graphical remote console when the OS is fully-loaded/available on the host system -- and a secure, hardware-based Lights-Out console for remote access to the host server when the OS is not operational.
 - **Serial record and play back** saves the text-based output data for later access and play back.
 - **Remote System logs** record everything being done for later troubleshooting or records.
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Standard Features

Environmental management

HPE OneView Advanced integrates resources to provide you with a power monitoring and energy management solution that is designed to scale to the level of your datacenter. Centralized monitoring of datacenter power consumption and thermal output is complemented with energy instrumentation connected into HPE iLO capabilities, allowing compatibility with any operating system residing on the managed server.

HPE OneView Advanced integrates three critical areas for environmental management of the data center: thermal data visualization, power delivery infrastructure representation, and physical asset location in 3D. These key areas are captured in the following environmental management features:

- **3D data center thermal mapping** allows you to view the thermal status of your entire data center at a glance. Thermal data is collected from the managed resources in each data center rack and is presented graphically, allowing easy identification of hot spots in a particular rack.
- **Power Discovery Services** enable automatic discovery and visualization of power delivery topology for your data center. The Hewlett Packard Enterprise Intelligent Power Distribution Units (iPDUs) and Platinum level power supplies enable automatic rack power topology mapping in HPE OneView, which can automatically detect wiring errors (like lack of redundancy) and can automatically update electrical inventory when new servers are installed. HPE OneView also supports per-outlet power control for remote power cycling of each iPDU outlet. (Devices not supporting Power Discovery Services can manually define their power requirements and power topology.)
- **Location Discovery Services** enable HPE OneView Advanced to automatically know and display the exact 3D location of Gen, Gen9 and Gen10 servers within HPE Intelligent Series Racks. This reduces labor time, lowers operational costs, and eliminates human errors associated with inventory and asset management. (Racks and devices that do not support Location Discovery Services can have their position manually input in the rack/device of the data center.)
- **Utilization dashboards** display key CPU/power/thermal information for the selected server, enclosure, or iPDU. Historical utilization graphs with up to three years of data (depending on storage limitations) help identify poor-performing servers and improve power utilization.
- **Visualization of CPU, power, and thermal data** for servers may be viewed and managed.

The environmental management in HPE OneView Advanced can help you save on your operating expenses (OpEx), and it can even extend data center capacity to avoid additional capital expenses (CapEx). It provides performance when you need it, and cost savings when you don't.

Open Integration

Open integration gives you **access to the full power of the management architecture**, assuming appropriate permissions, via the Representational State Transfer (REST) API and State-Change Message Bus. You can **integrate, automate, and customize** this management engine to access information or to control activities using the REST API. With HPE OneView integrations you might:

- Create an intelligent automation hub to orchestrate operations.
- Automate standard work flows, troubleshooting steps, and integrations (such as for configuration management databases, also known as CMDB).
- Connect to Service Desks.
- Monitor resources, collect data, map/model systems, and export data to custom formats.
- Attach custom databases, data warehouses, or 3rd party business intelligence tools.
- Integrate in-house user customizations.

HPE OneView couples a unique **State-change Message Bus** with REST APIs to provide automation and a closed-loop method of ensuring compliance. Intelligent change monitoring via the message bus allows automation to be closed-looped. This interface notifies custom scripts and integrations of all changes to managed resources (both logical and physical resources) via asynchronous messaging without having to continuously poll for status. The message bus returns commands in 500 milliseconds to give you fast response for your custom integration of applications, processes, and devices.

Python and PowerShell scripts are freely available to assist your custom integrations using the REST API.

HPE also offers an **HPE OneView Redfish Toolkit** to help customers to take automations that use the

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Redfish specification and apply them to HPE OneView managed infrastructure without needing to do extensive re-scripting. Through this set of tools customers will be able to combine the power of HPE OneView templates to compose compute, storage and fabric with the flexibility of industry standards. See the [HPE OneView technical documentation](#).

VMware vCenter, vRealize Operations, Log Insight, and Orchestrator (integrations)

HPE OneView for VMware vCenter seamlessly integrates the manageability features of HPE ProLiant, Synergy, BladeSystem, Virtual Connect, and Storage with VMware solutions. Gain deep control of your virtualized HPE Converged Infrastructure environment— reducing the time it takes to make important changes, increase capacity, or manage planned and unplanned downtime. When used with the automation power of HPE OneView, best practices for a Converged Infrastructure can be defined once and reused many times to provision an entire cluster with compute and storage fully configured in five easy steps.

Integrations for **VMware vRealize Operations, vRealize Log Insight** and **vRealize Orchestrator** are also available that deliver powerful analytics and deeper troubleshooting tools to your VMware administrators.

Seamlessly integrate HPE's Converged Management with VMware management solutions

- Simplify administration with VMware console access to HPE's infrastructure management.
- Reduce downtime by automating responses to hardware events with support of VMware Proactive HA.
- Proactively manage changes with detailed relationship dashboards.
- Leverage on-demand server and storage capacity, including support for HPE Composable Cloud for ProLiant DL.
- Maintain stability and reliability with online firmware inventory and deployment.
- Leverage deep analytics and troubleshooting using integrations with VMware vRealize Operations and Log Insight.
- Integrations for VMware vRealize Orchestrator (VRO) provide an easy-to-use, drag and drop access to automation of HPE OneView managed hardware deployment, firmware updates and other life-cycle tasks using vRealize Orchestrator.

Extensions for VMware are licensed for use with both HPE OneView and HPE Insight Control. While only one of these two licenses is required on any given host, the advanced provisioning features are only available with HPE OneView licensed hosts. VMware Operations, Orchestrator, and Log Insight integrations are licensed with HPE OneView only. To download, visit: <http://www.hpe.com/products/ovvcenter>.

This integration enables you to provision, modify, and recover complex infrastructure -- both virtual and physical together -- from your preferred management console.

NOTE: VMware vCenter Server, vRealize Operations, Orchestrator, and Log Insight must be purchased separately and are not included with HPE OneView.

Standard Features

Microsoft System Center and Azure Log Analytics (integrations) HPE OneView integrates with Microsoft System Center Server to deliver powerful HPE hardware management capabilities directly from System Center consoles for comprehensive system health and alerting, driver and firmware updates, OS deployment, detailed inventory, and HPE fabric visualization.

HPE OneView for Microsoft System Center Server provides the following capabilities from the Microsoft System Center consoles:

System Center Virtual Machine Manager (SCVMM)

- Integrated Fabric Management/Storage Add-in automates HPE Storage management and provides an integrated view of VMs and associated storage resources.
- Enhanced provisioning uses HPE OneView profiles to create or grow a Microsoft Hyper-V cluster consistently and reliably.
- Visually trace and monitor your infrastructure network end-to-end, from the host to the individual network modules.
- Facilitate consistency and improve uptime with simplified driver and firmware updates via a rotating, automated workflow for Microsoft Hyper-V clusters.

System Center Operations Manager (SCOM)

- Prevent problems from occurring by proactively monitoring and managing hardware health and intelligently responding to hardware events on HPE Synergy infrastructure, servers, enclosures, HPE Virtual Connect, and HPE Storage. Includes HPE Storage Management Pack for SCOM, which enables HPE Storage monitoring and management for events/alerts, capacity and health dashboards, and detailed virtual infrastructure.
- Manage the health of HPE ProLiant and Synergy servers without the need for loading OS-based SNMP agents or WBEM providers.
- Launch HPE remote management tools (such as iLO, OA, and HPE OneView) directly from the SCOM console.

System Center Configuration Manager (SCCM)

- Ensures consistency and maximize uptime with simplified Windows driver and firmware updates using the HPE ProLiant Updates Catalog.

Extensions for Microsoft System Center are delivered via 'HPE OneView for Microsoft System Center' and can be downloaded at <http://www.hpe.com/products/ovsc>.

HPE OneView for Microsoft Azure Log Analytics provides hybrid cloud infrastructure management for on-premises HPE hardware and firmware inventory, health status, and alert analysis using cloud based Microsoft Azure Log Analytics. This solution gathers data from HPE OneView and HPE Synergy that is used by the powerful log analytics and query engine of Azure Log Analytics, allowing you to use the same hybrid cloud management tools for both public and on-premises environments. For more information, please visit <http://www.hpe.com/products/ov4la>.

NOTE: Microsoft System Center and Microsoft Azure Log Analytics must be purchased separately and are not included with HPE OneView.

Standard Features

ISV partners

A growing list of ISV partners are taking advantage of the unified API in HPE OneView to automate solutions for customers. These partners range from large software suites like VMware® vCenter, Microsoft® System Center, to focused solution providers like Chef, Docker, Ansible, Arista, Chef, Densify.com, Docker, Eaton, F5, a nLyte, Puppet, Schneider Electric, Terraform and many others. HPE is continuing to work with ISV partners to further enhance and expand the HPE Composable Infrastructure Partner Program. By integrating with the unified API in HPE OneView, ISVs can provide solutions that reduce the time their customers spend managing their environments.

By integrating with the unified API in HPE OneView, ISVs can provide solutions that reduce the time their customers spend managing their environments. Recently introduced integrations with HPE OneView include:

- **Chef Software:** Chef Automate gives you a full-stack continuous deployment pipeline, automated testing for compliance and security, as well as visibility into everything that's happening along the way.
- **ServiceNow:** HPE OneView integration with ServiceNow allows IT operators to detect problems and provide ease of troubleshooting for their HPE infrastructure.
- **Red Hat OpenShift:** HPE OneView integration with OpenShift allows IT operations and application development teams deliver applications faster.

For more information please refer to <http://www.hpe.com/info/composableprogram>

Hardware Support

HPE Server Hardware Platforms

Customers should consult the HPE OneView Support Matrix for specific platform support at [HPE OneView technical documentation](#)

- **HPE OneView Advanced** supports management on:
 - HPE ProLiant rack servers (Gen8 and Gen9, Gen10), and
 - HPE BladeSystem (G7, Gen8, and Gen9, Gen10) c7000 infrastructure.
- **HPE OneView Standard** supports inventory, health monitoring, alerting, and reporting on:
 - HPE ProLiant rack servers (G6, G7, Gen8, and Gen9, Gen10), and
 - HPE BladeSystem (G6, G7, Gen8, and Gen9, Gen10) c7000 infrastructure.

Environmental capabilities of HPE OneView require target servers with an embedded power meter. Systems that support this power management can be found in the HPE OneView Support Matrix at: [HPE OneView technical documentation](#)

Appliance support and requirements

The HPE OneView management virtual appliance is a free software download at <http://www.hpe.com/downloads/OneView>

NOTE: See the [HPE OneView Support Matrix for the most current requirements at HPE OneView technical documentation](#)

Standard Features

Virtualization Platforms for the Management Appliance

Microsoft Hyper-V	Hyper-V Server 2012
	Hyper-V Server 2012 R2
	Windows Server 2012 with the Hyper-V role
	Windows Server 2012 R2 with the Hyper-V role
	Windows Server 2016 with the Hyper-V role
VMware ESXi	VMware ESXi 5.0
	VMware ESXi 5.0 Update 1
	VMware ESXi 5.0 Update 2
	VMware ESXi 5.0 Update 3
	VMware ESXi 5.1
	VMware ESXi 5.1 Update 1
	VMware ESXi 5.1 Update 2
	VMware ESXi 5.1 Update 3
	VMware ESXi 5.5
	VMware ESXi 5.5 Update 1
	VMware ESXi 5.5 Update 2
	VMware ESXi 5.5 Update 3
	VMware ESXi 6.0
	VMware ESXi 6.0 Update 1
	VMware ESXi 6.0 Update 2
VMware ESXi 6.5	
VMware ESXi 6.5 Update 2	
KVM	RHEL 7.2

Client-side software requirements

Supported Internet browsers

- Microsoft Edge/ Microsoft Internet Explorer Version 11
- Mozilla Firefox Version 45.x
- Mozilla Firefox ESR (Extended Support Release) Version 52.x
- Google Chrome Version 54.x

NOTE: Microsoft Internet Explorer (IE) Version 11 cannot transfer files larger than 4 GB. For those files, use Mozilla Firefox or Google Chrome browsers.

Consult the HPE OneView Support Matrix for more detailed information: [HPE OneView technical documentation](#)

NOTE: HPE makes every effort to support newer versions of and updates to supported web browsers. Hewlett Packard Enterprise will endeavor to support the newer browser versions in the next maintenance release or full release of HPE OneView. If you encounter a problem with a newer, untested version of a web browser, submit a report to your authorized HPE support representative. In some cases, the short-term solution might be to revert to an earlier, supported web browser version

Service and Support

Warranty Hewlett Packard Enterprise will replace defective delivery media for a period of 90 days from the date of purchase. This warranty applies to all HPE OneView products found on the delivery media.

HPE Software Support Hewlett Packard Enterprise offers a number of additional software support services, many of which are provided to our customers at no additional charge.

Software Technical Support and Update Service

HPE OneView software products include three years of 24x7 HPE Software Technical Support and Update Service. This service provides access to HPE technical resources for assistance in resolving software implementation or operations problems. The service also provides access to software updates and reference manuals in electronic form. With this service, HPE OneView customers will benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information, see "Software Services" under "Support Services" at <https://www.hpe.com/us/en/services/it-support.html>

Registration for Software and Technical Support and Update Services

If you received a license entitlement certificate, registration for this service will take place following online redemption of the license certificate/key. **Required information for proper support registration includes end-user customer name, company address, and email address.**

How to Use Your Software Technical Support and Update Service

Once registered, you will receive a service contract via email or postal mail, containing the Customer Service phone number and your Service Agreement Identifier (SAID). You will need your SAID when calling for technical support. You can also use your SAID at the HPE Support Center online to view your contract.

Join the Conversation

the **HPE Support Center** is a community-based, user-supported tool for HPE customers to participate in discussions amongst the customer community about Hewlett Packard Enterprise products. For discussions related to HPE OneView software, see "Converged Management" under the "HPE Enterprise Business Community."

Software and Drivers download page provide the latest software and drivers for your ProLiant products.

HPE Service Pack for ProLiant (SPP) with **HPE SUM** part of the HPE Smart Update portfolio, provide breakthrough system maintenance tools that systematically update HPE ProLiant servers and blade infrastructures with one-click simplicity at the scale of your data center. They simplify and consolidate system software update processes enabling you to update your ProLiant servers faster, with a reduction in downtime due to the online updates process.

- HPE Service Pack for ProLiant (SPP) and HPE Smart Update Manager (HPE SUM) can be downloaded from <http://www.hpe.com/info/hpsum>

Contact Support

HPE Worldwide Customer Service contact numbers are available at <https://www.hpe.com/us/en/contact-hpe.html>

For U.S. customers, say "HPE OneView" when prompted for the product name.

HPE Education and Training Services Hewlett Packard Enterprise education services focuses on your most important asset, your people, and making sure they have the right skills to deliver business outcomes. With over 35 years of experience we lead the industry when it comes to leading edge skills-based IT training, certification training and training services focused on end user acceptance during a technology change. We represent unmatched expertise across a broad range of Hewlett Packard Enterprise products, industry partner technologies and IT service management disciplines by combining technical knowledge, business insight and hands-on experience in our training delivery.

- **HPE OneView Administration:**

Service and Support

The HPE OneView instructor led course (Course ID H4C04S) is essential training for System, Network, and Storage administrators using HPE OneView and for System architects anticipating the implementation of OneView into their converged infrastructure.

- Your purchase of HPE OneView Advanced also entitles you access to the **HPE OneView Overview** (Course ID H4C04AAE), an hour of self-paced Web Based Training (WBT). To redeem your WBT course, visit <http://www.hpe.com/ww/oneviewBundle>.

HPE recommends at least **3 HPE Training Credits for ProLiant/Hybrid IT** (SKU# HF385E or HF385A1) per student seat with every HPE OneView solution.

- One unit of **HF385E/HF385A1** HPE Education Training Credit will cover one day of training per student.
- Specific training recommendations for a given client will vary depending on the customer's existing knowledge and experience.
- HF385A1/E HPE Training Credits for ProLiant/Hybrid IT Services, Qty= 3 units per student

Book on a class today and learn how to get the most from your technology investment
<http://www.hpe.com/ww/learn>.

Proactive Care for HPE OneView Advanced

NOTE: Proactive Care is recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience. Proactive Care includes Collaborative Support plus Proactive services delivered by the on-shore/near-shore Advanced Solution Center (ASC) and backed by the global delivery organization. End-to-end case ownership from a Technical Solution Specialists and Technical Account Manager remotely delivers firmware/software revision management, proactive scans, and incident trend reports.

HPE 3 year Proactive Care 24x7 OneView with iLo Service	U0SJ5E
HPE 4 year Proactive Care 24x7 OneView with iLo Service	U0SJ6E
HPE 5 year Proactive Care 24x7 OneView with iLo Service	U0SJ7E
HPE 3 year Proactive Care 24x7 OneView w/o iLo Service	U0SK0E
HPE 4 year Proactive Care 24x7 OneView w/o iLo Service	U0SK1E
HPE 5 year Proactive Care 24x7 OneView w/o iLo Service	U0SK2E
HPE 3 year Proactive Care 24x7 OneView BL 16-Svr Service	U0SK5E
HPE 4 year Proactive Care 24x7 OneView BL 16-Svr Service	U0SK6E
HPE 5 year Proactive Care 24x7 OneView BL 16-Svr Service	U0SK7E

Proactive Care Advanced (PCA) for HPE OneView Advanced

NOTE: Proactive Care Advanced (PCA) provides all the capabilities of Proactive Care with the addition of an assigned ASM (a dedicated contact person), semi-annual support planning and reviews, and flexible technical advice and assistance.

HPE 3 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB7E
HPE 4 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB8E
HPE 5 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB9E
HPE 3 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC0E
HPE 4 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC1E
HPE 5 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC2E
HPE 3 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC3E
HPE 4 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC4E
HPE 5 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC5E

Service and Support

Support for HPE OneView Standard

HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU K6F98AAE

HPE Support Services

HPE Technical Services

HPE Training Credit Servers Hybrid IT Service HF385E

HPE Training Credit Servers/HybridIT SVC HF385A1

Service Offerings (HPE Per Event Services)

NOTE: For more information, see <https://www.hpe.com/us/en/services/it-support.html>.

HPE OneView Configuration and Startup Service U1V78E

HPE OneView Config and Startup SVC H6K67A1

HPE OneView Installation and c7000 BladeSystem Migration Service U1V79E

HPE OneView Ins and c7000 BldSys Mig SVC H6K68A1

HPE OneView c7000 BladeSystem Migration Add-on Service H4W69E

HPE OneView c7000 BldSys Migr Add-on SVC H8Q65A1

HPE OneView Startup with Insight Control server provisioning Service (flex) HA124A1#5TF

HPE OneView VMware vCenter Startup Service UT858E

HPE OneView for VMware vCenter Installation and Startup Service (flex) HA124A1#5NV

HPE OneView MS System Center Startup Service UT857E

HPE OneView for Microsoft System Center Installation and Startup Service (felx) HA124A1#5NU

HPE OneView Implementation SVC H1TK2A1

Foundation Care Support Uplifts for HPE OneView Advanced

HPE 4 year Foundation Care 24x7 One View w/ iLo Service U2WM8E

HPE 5 year Foundation Care 24x7 One View w/ iLo Service U2WM9E

HPE 4 year Foundation Care 24x7 One View w/o iLo Service U2WN0E

HPE 5 year Foundation Care 24x7 One View w/o iLo Service U2WN1E

HPE 4 year Foundation Care 24x7 OneView BL 16-Svr Service U2WM6E

HPE 5 year Foundation Care 24x7 OneView BL 16-Svr Service U2WM7E

Proactive Care for HPE OneView Advanced

NOTE: Proactive Care is recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience. Proactive Care includes Collaborative Support plus Proactive services delivered by the on-shore/near-shore Advanced Solution Center (ASC) and backed by the global delivery organization. End-to-end case ownership from a Technical Solution Specialists and Technical Account Manager remotely delivers firmware/software revision management, proactive scans, and incident trend reports.

HPE 3 year Proactive Care 24x7 OneView with iLo Service U0SJ5E

HPE 4 year Proactive Care 24x7 OneView with iLo Service U0SJ6E

HPE 5 year Proactive Care 24x7 OneView with iLo Service U0SJ7E

HPE 3 year Proactive Care 24x7 OneView w/o iLo Service U0SK0E

HPE 4 year Proactive Care 24x7 OneView w/o iLo Service U0SK1E

HPE 5 year Proactive Care 24x7 OneView w/o iLo Service U0SK2E

HPE 3 year Proactive Care 24x7 OneView BL 16-Svr Service U0SK5E

HPE 4 year Proactive Care 24x7 OneView BL 16-Svr Service U0SK6E

Service and Support

HPE 5 year Proactive Care 24x7 OneView BL 16-Svr Service	U0SK7E
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Proactive Care Advanced (PCA) for HPE OneView Advanced

NOTE: Proactive Care Advanced (PCA) provides all the capabilities of Proactive Care with the addition of an assigned ASM (a dedicated contact person), semi-annual support planning and reviews, and flexible technical advice and assistance.

HPE 3 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB7E
HPE 4 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB8E
HPE 5 year Proactive Care Advanced 24x7 OneView 16-Server Service	U5HB9E
HPE 3 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC0E
HPE 4 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC1E
HPE 5 year Proactive Care Advanced 24x7 OneView w/ Integrated Lights-Out Service	U5HC2E
HPE 3 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC3E
HPE 4 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC4E
HPE 5 year Proactive Care Advanced 24x7 OneView w/o Integrated Lights-Out Service	U5HC5E

Support for HPE OneView Standard

HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
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Configuration Information

HPE OneView Advanced standalone licenses	HPE OneView Advanced with iLO Advanced	
	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
	HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
	<p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView</p> <p>NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.</p> <p>NOTE: (E5Y36A) Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hpe.com/info/AKA</p>	
HPE OneView Advanced standalone licenses	HPE OneView Advanced without iLO Advanced	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
	<p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView</p> <p>NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.</p> <p>NOTE: (P8B25A) Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hpe.com/info/AKA</p>	
HPE OneView Advanced licenses for bundling with ProLiant DL servers	HPE OneView Advanced with iLO Advanced (Server hardware required on same purchase order)	
	NOTE: The following HPE OneView part numbers can only be used when ordered on the same order as a supported ProLiant DL server.	
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A
	<p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView</p> <p>NOTE: (E5Y44A) Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hpe.com/info/AKA</p>	
HPE OneView Advanced licenses for bundling with ProLiant BL server blades	HPE OneView Advanced with iLO Advanced (Server hardware required on same purchase order)	
	NOTE: The following HPE OneView part numbers can only be used when ordered on the same order as a supported ProLiant BL server blade.	
	HPE OneView for Blade Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	F6Q89A
	HPE OneView for Blade Server including 3yr 24x7 Support Bundle Track 1-server LTU	F6Q90A
	<p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView</p> <p>NOTE: (F6Q90A) Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hpe.com/info/AKA</p>	

Configuration Information

HPE OneView Advanced licenses for bundling with ProLiant BL server blades or ProLiant DL servers	HPE OneView Advanced without iLO Advanced (Server hardware required on same purchase order) NOTE: The following HPE OneView part numbers can only be used when ordered on the same order as a supported ProLiant BL server blade, or as a supported DL ProLiant server. HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge. NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView	P8B31A
HPE OneView Advanced licenses for bundling with BladeSystem enclosures	HPE OneView Advanced with iLO Advanced (c7000 enclosure required on same purchase order) NOTE: The following HPE OneView part numbers can only be used when ordered on the same order as a BladeSystem c7000 enclosure. HPE OneView including 3yr 24x7 Support Enclosure FIO Bundle 16-server LTU HPE OneView including 3yr 24x7 Support Enclosure Bundle Track 16-server LTU NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge. NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView NOTE: (E5Y42A) Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hpe.com/info/AKA	E5Y41A E5Y42A
HPE OneView Advanced upgrade licenses	HPE OneView Advanced upgrade licenses from iLO Advanced, Insight Control, or VCEM. NOTE: For use in environments where iLO Advanced, Insight Control, or Virtual Connect Enterprise Manager (VCEM) is already licensed. Upgrades do not include iLO Advanced licenses HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU HPE OneView Upgrade from Insight Management including 3yr 24x7 Support Flexible Quantity E-LTU NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/downloads/OneView NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	F6Q91A E5Y45AAE
HPE OneView Standard support license	HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU NOTE: HPE OneView Standard can be downloaded without additional charge at http://www.hpe.com/downloads/OneView NOTE: This license is not per server but per HPE OneView appliance. Purchase and apply one license per HPE OneView appliance.	K6F98AAE
HPE OneView for B22HP FEX	HPE OneView 3yr 24x7 Support for Cisco B22HP Fabric Extender LTU HPE OneView 3yr 24x7 Support for Cisco B22HP Fabric Extender E-LTU NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key.	P9V06A P9V06AAE
HPE OneView for Superdome FLEX	HPE OneView 3yr 24x7 Support for HPE Superdome FLEX E-LTU NOTE: This license is per Superdome FLEX chassis	R4P95AAE

Summary of Changes

Date	Version History	Action	Description of Change
02-Mar-2020	Version 42	Changed	Overview and Configuration Information sections were updated.
02-Dec-2019	Version 41	Changed	Overview section was updated.
04-Nov-2019	Version 40	Changed	Overview section was updated.
07-Oct-2019	Version 39	Changed	Overview and Configuration Information sections were updated.
03-Sep-2019	Version 38	Changed	Overview section was updated.
01-Jul-2019	Version 37	Changed	Overview, Standard Features, and Supported Product sections were updated.
03-Jun-2019	Version 36	Changed	Overview and Supported Product sections were updated.
02-Apr-2019	Version 35	Changed	Overview, Models, and Supported Products sections were updated.
		Removed	Obsolete SKUs were deleted: 763850-B21, 793314-B21, 793312-B21, 793310-B21, 741066-B21, 803861-B21, 795236-B21.
04-Feb-2019	Version 34	Changed	Overview and Supported Product sections were updated.
07-Jan-2019	Version 33	Changed	Overview sections was updated.
05-Nov-2018	Version 32	Changed	Overview section was updated.
04-Sep-2018	Version 31	Changed	Overview, Models, Service and Support, and Supported Product sections were updated.
04-Jun-2018	Version 30	Changed	Overview, Standard Features, Models, Supported Product, and Service and Support sections were updated.
02-Apr-2018	Version 29	Changed	Supported Products section was updated.
05-Feb-2018	Version 28	Changed	Overview section was updated.
18-Dec-2017	Version 27	Changed	Supported Products section was updated.
04-Dec-2017	Version 26	Changed	Standard Features, Supported Products, and Service and Support sections were updated.
10-Oct-2017	Version 25	Changed	Added the Global Dashboard information
25-Sep-2017	Version 24	Changed	Changes made throughout the QuickSpecs
07-Aug-2017	Version 23	Changed	Changes made to the Overview Section
11-Jul-2017	Version 22	Changed	Changes made throughout the QuickSpecs
05-Jun-2017	Version 21	Changed	Added the Global Dashboard 1.2
27-Mar-2017	Version 20	Changed	Changes made throughout the QuickSpecs
13-Feb-2017	Version 19	Changed	Changes made throughout the QuickSpecs
28-Nov-2016	Version 18	Changed	Changes made to the Supported Products and Overview Sections.
26-Sept-2016	Version 17	Changed	Changes made throughout the QuickSpecs
06-Jun-2016	Version 16	Changed	Changes made throughout the QuickSpecs
11-Mar-2016	Version 15	Changed	Typo on SKUSKU corrected (PB31A changed to P8B31A)
28-Sept-2015	Version 14	Changed	Changes made to the Overview, Models, Standard Features, Supported Products and Related Options Sections for the Thyme NPI.
01-Jun-2015	Version 13	Changed	Changes made to the Overview, Models, Standar Features and Related Options Sections
03-Apr-2015	Version 12	Changed	Changes made to the HPE Pointnext operational services section
30-Mar-2015	Version 11	Changed	Changes made to the Models and What 's New Sections. Update SKUs descriptions.
18-Dec-2014	Version 10	Changed	Changed made to the Service and Support and What 's New Sections.
01-Dec-2014	Version 9	Changed	Changes made throughout the QuickSpecs.
09-Sep-2014	Version 8	Changed	Gen9 Update, product descriptions updated
21-May-2014	Version 7	Changed	Text and format in Overview, Standard Features and Support Product sections were updated
18-Feb-2014	Version 6	Added	Added the What's New Section: HPE OneView 1.05 provides the following enhancements for infrastructure management: VMware vCenter Server integration with HPE OneView delivers powerful Hewlett Packard Enterprise hardware management capabilities directly from the vCenter console to virtualization administrators

Summary of Changes

			Active-Active configuration support for Virtual Connect reduces oversubscription rates for more predictable server-to-network-core traffic and provides faster link failure detection and failover times RAID support for HPE ProLiant blade servers allows local storage configuration support (ACU/SSA) in server profiles Dynamic network changes supported in server profiles allows Virtual Connect administrators to change pre-existing connection networks and connection bandwidth without powering down blade servers HPE OneView appliance upgrade support from versions 1.0 /1.01 to current version 1.05 HPE ProLiant Gen8 server support for DL560, DL580, and BL660c Gen8
09-Dec-2013	Version 5	Changed	Changes made in the Models and the Supported Product sections.
22-Oct-2013	Version 4	Changed	Changes made in the North America Versions only.
04-Oct-2013	Version 3	Changed	Changes made to both remove and add various part numbers from the Standard Features and Related Options sections.
26-Sep-2013	Version 2	Added	Added "HPE" in front of OneView throughout the QuickSpecs.
25-Sep-2013	Version 1	Created	New QuickSpecs



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