

Overview

HPE OneView

HPE OneView is converged management that eliminates infrastructure complexity with automation simplicity. This modern management architecture is designed to accelerate your IT operations for managing servers, storage, and network resources.

The HPE OneView design is:

- Converged, with an innovative architecture that delivers a unified and consistent management experience across servers, storage, and networking.
- Software-Defined, providing software-based control, infrastructure mapping, and a user-centric approach to ensure rapid, repeatable, and reliable operations at lower costs.
- Automated, working as an intelligent hub to streamline the delivery of IT services and to speed the transition to IT-as-a-Service and to the hybrid cloud.

Convergence cuts in half the number of tools required to learn, manage, deploy and integrate infrastructure. The innovative architecture delivers simplified and consistent management across servers, storage, and networking. A single, open management platform supports multiple generations of HPE DL servers, HPE BladeSystem, HPE 3PAR storage, and HPE ConvergedSystem -- as well as HPE and Cisco top-of-rack switches. Integration solutions also allow you to provision and manage lifecycles within familiar consoles like VMware vCenter Server and Operations Manager, Microsoft System Center, and Red Hat Enterprise Virtualization.

Software-defined approaches to systems management create "get it right" repeatability every time to help you prevent unplanned outages caused by human error or device failure. Profiles and groups capture your best practices and policies to help you increase productivity and enable compliance and consistency. You can also manage this infrastructure programmatically using powerful APIs build on industry standards such as REST. These APIs are easily accessible from any programming language and SDKs are provided for interfaces, PowerShell, and Python scripts.

Automation can streamline your delivery of IT services and speed your transition to Infrastructure-as-a-Service (IaaS) and hybrid cloud delivery. Using HPE OneView as an intelligent hub provides you a closed-loop automation with consistent APIs, data model, and state-change message bus. Your virtualization administrators can automate control of HPE compute, storage, and networking resources using VMware vCenter or Microsoft System Center without having detailed knowledge of each device. The result: tasks, processes, and projects are accomplished faster and with more consistency than the older patchwork approaches to management.

These innovations in HPE OneView can reduce your OpEx and improve your business agility. HPE OneView is your converged management foundation to free your resources for new business initiatives, whether that is "lights-out automation" or "enabling infrastructure" for a hybrid, heterogeneous cloud. Efficiently transition from your current HPE and third party infrastructure, tools, and processes to your vision of IT-as-a-Service using HPE OneView.

Overview

What's New

HPE OneView 2.0 provides the following enhancements for converged management:

Server and Enclosure Management

- What's New?
- Server profile templates -- with monitor, flag, and update from template
- FW & OS Driver updates (Win, Lx) via HPE tools on demand
- Profile Dashboard (info for server profiles, drill down in Storage & Networking)
- Profile Mobility / Profile Migration
- FCoE SAN Fabric for HPE 5900 AF/CP (Sheppard, SuperShaw, Biggs VC interconnect modules)
- Physical connectivity view
- Localization: Japanese & Simplified Chinese
- **NOTE:** Virtual Appliance Scalability: Concurrent import and management of 40 enclosures, 640 servers, 240 interconnects, 2560 storage volumes. (This is the same as in the v1.10 & v1.20 releases.)

Network Management

- VC domain migrations: VCM -to- HPE OneView Migration at v2.0 VC feature parity
NOTE: Does NOT include online migration
- VC enhancements for c7000
 - QoS support for traffic classification
 - Dual-hop FCoE Support
 - Partially stacked domains (Single c7000 LE lifecycle with multi-LI support and new c7000 multi-LIG Enclosure Group)
 - Support for 4K defined VLANs
 - VCSU equivalent functionality for firmware update with minimal downtime (fixed sequence)
 - LLDP Enhancements with richer TLVs
- FCoE SAN Fabric for HPE 5900 AF/CP
- FC & FCoE SAN support for Cisco MDS (c7000)
- Cisco Nexus 5K and 6K ToR switches & c7000 FEX – with Resources, LSG/LS with vPC, Alerts, Stats, Monitoring, Topology, Physical connectivity view

Storage Management

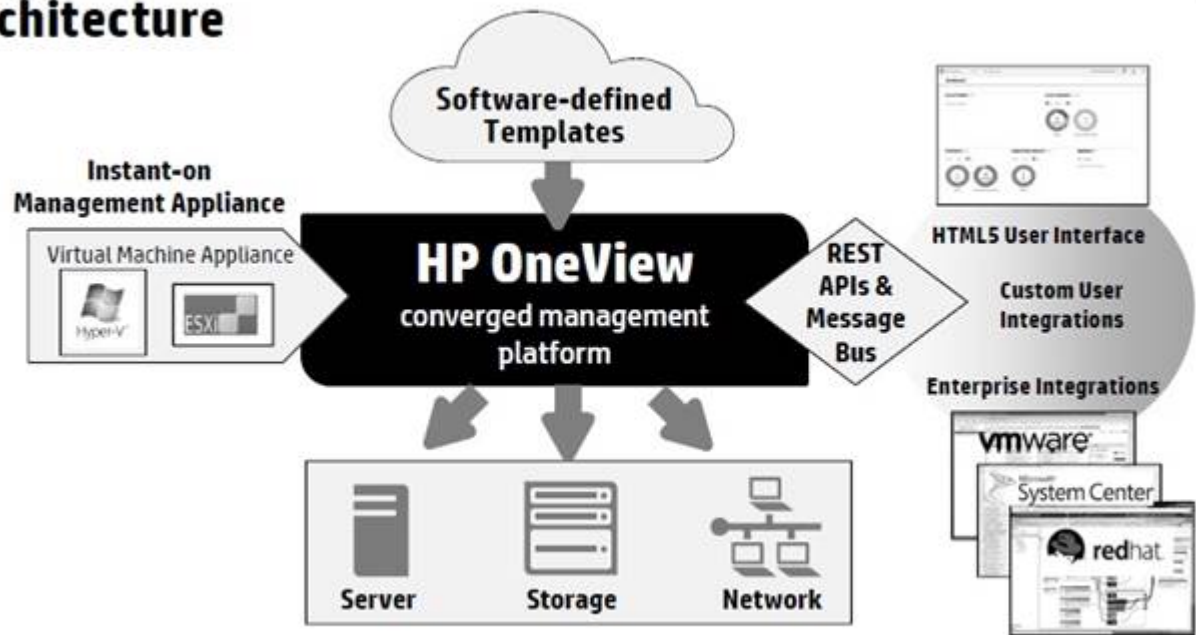
- Storage volume snapshots
- Health monitoring for SAN connections

Partner Integrations

- HPE Virtualization Performance Viewer for HPE OneView adds capacity optimization capabilities to HPE OneView Advanced.
- VMware vCenter Server integration adds server-profile-based Grow Cluster deployment and automated HPE StoreOnce deployment for secure backup/recovery.
- Microsoft System Center integration adds a single integrated SCVMM Fabric Management/Storage Add-in with support for partial domains, FCOE dual hop, Server Profile templates, and Logical Enclosures. The HPE OneView Management Pack for SCOM includes server health monitoring to support ProLiant BL/DL servers (G6 to Gen9), as well as support for drivers and firmware from SPP 2015.09.
- HPE Operations Analytics for HPE OneView provides "Big Data" analytics for IT operations using HPE OneView Advanced.

Overview

HP OneView
Architecture



Models

HPE OneView Advanced standalone licenses	HPE OneView Advanced with iLO Advanced	
	HPE OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
	HPE OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE
	HPE OneView incl 3yr 24x7 Supp Track 1 Svr Lic	E5Y36A
	HPE OneView Media Kit Phys No Lic	E5Y37A

NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and

provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).

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.hp.com/go/oneview/download>

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See

<http://www.hp.com/go/aka>

HPE OneView Advanced standalone licenses	HPE OneView Advanced without iLO Advanced	
	HPE OneView without iLO incl 3yr 24x7 Supp Phys 1 Svr LTU	P8B24A
	HPE OneView without iLO incl 3yr 24x7 Supp Track1 Svr LTU	P8B25A
	HPE OneView without iLO incl 3yr 24x7 Supp Flex Qty E-LTU	P8B26AAE
	HPE OneView Media Kit Phys No Lic	E5Y37A

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Models

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 incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A
	HPE OneView for ProLiant DL Server incl 3yr 24x7 Supp Bundle Track 1 Svr Lic	E5Y44A
	NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).	
	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.hp.com/go/oneview/download	
	NOTE: Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hp.com/go/aka	

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 incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	F6Q89A
	HPE OneView for Blade Server incl 3yr 24x7 Supp Bundle Track 1 Svr Lic	F6Q90A
	NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).	
	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.hp.com/go/oneview/download	
	NOTE: Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hp.com/go/aka	

Models

HPE OneView Advanced licenses for bundling with ProLiant BL server blades or ProLiant DL servers	<p>HPE OneView Advanced without iLO Advanced (Server hardware required on same purchase order)</p> <p>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.</p> <p>HPE OneView for Server without iLO including 3yr 24x7 FIO Bundle 1 Server LTU P8B31A</p> <p>NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).</p> <p>NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download</p>
HPE OneView Advanced licenses for bundling with BladeSystem enclosures	<p>HPE OneView Advanced with iLO Advanced (c7000 enclosure required on same purchase order)</p> <p>NOTE: The following HPE OneView part numbers can only be used when ordered on the same order as a BladeSystem c7000 enclosure.</p> <p>HPE OneView incl 3yr 24x7 Supp Enclosure FIO Bundle Phys 16 Svr Lic E5Y41A</p> <p>HPE OneView incl 3yr 24x7 Supp Enclosure Bundle Track 16 Svr Lic E5Y42A</p> <p>NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).</p> <p>NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download</p> <p>NOTE: Tracking licenses may only be purchased by customers that have implemented an Activation Key Agreement (AKA) with HPE. See http://www.hp.com/go/aka</p>
HPE BladeSystem c7000 enclosure bundled with HPE OneView Advanced licenses	<p>HPE BLc7000 Platinum Enclosure with 1 Phase 6 Pwr Supplies 10 Fans ROHS 16 OneView Licenses 763850-B21</p> <p>NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).</p> <p>NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download</p>
HPE ProLiant Rack	HPE DL580 Gen9 E7-8893v3 4P 256GB Svr 793314-B21



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servers bundled with HPE OneView Advanced licenses	HPE DL580 Gen9 E7-8890v3 4P 256GB Svr	793312-B21
	HPE DL580 Gen9 E7-4850v3 4P 128GB Svr	793310-B21
	HPE DL560 Gen9 E5-4640v3 128GB 4P Adv WW	741066-B21
	HPE DL380 Gen9 E5-2690v3 32G OV Perf2 Svr	803861-B21
	HPE DL360 Gen9 E5-2670v3 OneView Svr	795236-B21
<p>NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).</p> <p>NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download</p> <p>NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download</p>		
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 incl 3yr 24x7 Supp Physical 1 Svr Lic	F6Q91A
	HPE OneView Upgrade from Insight Management incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y45AAE
	NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview/download	
NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.		
HPE OneView Standard support license	HPE OneView Standard 1yr 9x5 Support Flex Quantity E-RTU	K6F98AAE
	NOTE: HPE OneView Standard can be downloaded without additional charge at http://www.hp.com/go/oneview/download .	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
Software Options for HPE OneView Advanced	HPE Operations Analytics for HPE OneView LTU	K8G29A
	HPE Operations Analytics for HPE OneView E-LTU	K8G29AAE
	NOTE: For use in environments where HPE OneView Advanced is licensed and deployed.	
	HPE Virtualization Performance Viewer for HPE OneView LTU	M5R19A
	HPE Virtualization Performance Viewer for HPE OneView E-LTU	M5R19AAE
NOTE: For use in environments where HPE OneView Advanced is licensed and deployed.		



HP OneView SKUs commonly ordered for worldwide use

Product Offering and License Type	Off-the-shelf Software		Factory-Integrated Software (FIO) when ordered with server hardware	
	1-license	Flex-Quantity	SW for BL/DL Server (1-lic)	SW for c7000 (16-lic)
HP OneView Advanced (with HP iLO Advanced)				
SW for new BladeSystem c7000 sale				E5Y41A
SW for new ProLiant BL server sale			F6Q89A	
SW for new ProLiant DL server sale			E5Y43A	
Standalone Software	E5Y34A	E5Y35AAE		
Upgrades to HP OneView Advanced				
HP OneView Advanced Upgrade**	F6Q91A	E5Y45AAE		
HP OneView Standard				
HP OneView Standard	No charge for use; just setup the HP OneView management appliance. Annual support optional (K6F98AAE).			

NOTE: All HP OneView Advanced SKUs include 3-years of Technical Support and Software Updates (TS&U).
NOTE: Full HP OneView Advanced SKUs include HP iLO Advanced and 'integrated licensing' rights-to-use HP Insight Control.
** Upgrades ship without HP iLO Advanced and without 'integrated licensing' rights-to-use to HP Insight Control



Standard Features

Modern Architecture

HPE OneView is a lifecycle management platform for the converged infrastructure. It manages the physical infrastructure needed to support virtualization, cloud computing, and mixed computing environments. Use it to deploy, manage, troubleshoot, and maintain your converged infrastructure.

One Model, One Data, One View

HPE OneView is a resource-oriented solution focused on the entire hardware lifecycle -- from initial configuration to on-going monitoring and maintenance of both logical resources (like server profiles, networks, connections) and physical resources (like servers, interconnects, enclosures). Labels can be applied to resources to rapidly search, filter, and invoke operations. And operations can be performed on resources in bulk for productivity (like to power-on servers or update enclosure configurations).

This advanced architecture connects the resources with a common representation of the servers, networks, and storage for the converged infrastructure. This powerful domain-specific representation of resources also models their associations and interdependencies, which enables each area to contribute to the 'one view' of the converged infrastructure. The architecture also incorporates separation of management and data backplanes, which isolates and offloads management traffic from production networks and can be particularly critical in stopping denial-of-services (DoS) attacks.

Converged Platform

HPE OneView radically simplifies everyday management of server, storage, and network resources. The single, integrated platform in HPE OneView increases the productivity of every member of the IT team by providing a unified user experience - facilitating collaboration, removing friction, and accelerating time to value. When performing an action, you have one tool for all tasks with one operating model that provides a consistent way of viewing your resources and results.

Administrators responsible for different areas (like servers, storage, networks, virtualization) are empowered with appropriate access to authorized resources using the same tool. This allows them to collaborate and make authorized decisions without stepping on another's responsibilities. For example, virtualization administrators can automate control of HPE compute, storage, and networking resources without a detailed knowledge of each device. True convergence gives real productivity.

Software-defined Approaches

Software-defined approaches to converged management in HPE OneView enable you to capture and standardize your best practices from your IT team. These approaches leverage the best expertise of your organization and still allow for customization so that you maintain ultimate control.

- Profiles capture the entire configuration for a resource into a single place for easy management. For example, server profiles define the critical characteristics of your server.
- Server profile templates provide a new powerful way to update and maintain your existing infrastructure. HPE OneView simplifies one to many update &

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management of server profiles with templates. This feature adds inheritance to HPOV templates where BIOS settings, firmware & driver updates can be made in the template and then propagated out to the profiles created from that template.

- Groups are the recipes for building your specific environment (such as a database server). Your own experts specify the capabilities and constraints to guarantee that your best practices are built into your environment. Groups decouple and abstract resources to eliminate process steps, for example, by enabling delivery from your experts to lower-level administrators without excessive communications. And groups are designed to work with all your important tasks in HPE OneView.
- Sets allow you to designate collections of resource groups by a single name (like 'network sets' that use a single name for several Ethernet links). Sets provide easy re-use and assignments that scale.

Software-defined infrastructure – like Profiles, Groups, and Sets – require the purchase of HPE OneView Advanced licenses. These software-defined approaches help you to specify configurations consistently, provision quickly, simplify changes, and control change management.

Open Integration and Enterprise Solutions

HPE OneView is designed with open integration to allow you easy access to the full power of the management architecture via the Representational State Transfer (REST) API and State-Change Message Bus. Python and PowerShell scripts are freely available to help you automate, integrate, and customize using the REST API.

Enterprise integrations from software partners use the REST API to control and automate the HPE OneView physical infrastructure from their own management consoles. Available solutions include: VMware vCenter Server, VMware Operations Manager, VMware Log Insight, Microsoft System Center, Red Hat Enterprise Virtualization, and HPE Operations Analytics for HPE OneView.

The consistent APIs, data model, and message bus in HPE OneView is architected to replace the "eclectic conglomeration" of traditional system approaches with a true converged management approach. HPE OneView has the modern architecture to get you to the "IT as a Service" in your future.

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

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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.

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.

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 or Microsoft Hyper-V 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.

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.

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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 and Gen9 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. 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, and Gen9 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:

- 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 BladeSystems 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.hp.com/go/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.

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Trial software versions

The HPE OneView management appliance controls the licenses, and it can be obtained in two ways:

- (1) Software download (OVA) from [HPE Software Depot \(http://www.hp.com/go/oneview/download\)](http://www.hp.com/go/oneview/download), or
- (2) Purchase of the HPE OneView Media Kit (contains a USB flash drive).

HPE OneView Advanced management software licenses can be used for 60-days without charge.

HPE OneView Standard management software can be used without charge.

Automated Storage Provisioning

HPE OneView provides automated, policy-driven provisioning of storage resources. It is fully integrated with server profiles so that you can manage your new or existing HPE 3PAR storage infrastructure. The software-defined nature of HPE OneView enables you to:

- View and manage your storage system and storage pools,
- Add existing volumes and create new volumes, and
- Create volume templates to provision multiple volumes with the same configuration.
- Automate zoning Fiber Channel SANs and attaching storage to server profiles.

Switched fabric, Direct Attach (FlatSAN), and VSAN SAN topologies are supported to provide dynamic connectivity between HPE OneView managed servers and HPE 3PAR StoreServ Storage Systems. HPE OneView discovers the SAN paths and provides connectivity services for the following infrastructures:

- HPE 3PAR StoreServ Storage systems connected directly to an enclosure via Fiber Channel.
- HPE 3PAR StoreServ Storage Systems connected to an HPE B-series Fiber Channel SAN configurations (SANs - managed through the HPE B-Series SAN Network Advisor software).
- HPE 3PAR StoreServ Storage Systems connected to a Brocade Fiber Channel SAN configurations (SANs - managed through Brocade Network Advisor (BNA) software).

Automatic SAN zoning

You can also add Storage Area Network (SAN) managers to bring their managed SANs under management of the appliance. 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 through server profile volume attachments.

Storage integration through server profiles

Storage integration with server profiles saves you time and makes you more productive. You can attach private or shared storage volumes to HPE OneView server profiles to enable automated boot target configuration and to move Direct Attach (FlatSAN) profiles across enclosures.

Standard Features

Storage monitoring, connectivity, and synchronization

HPE OneView monitors storage systems and issues alerts when there is a change in health or connectivity status of storage systems. Storage systems are also monitored to ensure that they are synchronized with changes to hardware and configuration settings. Should the appliance lose connectivity with a storage system, an alert is displayed until connectivity is restored. Storage topology is also available in Map View.

See the [*HPE OneView Support Matrix*](#) for a list of supported storage systems.

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.

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

Standard Features

HPE OneView Advanced also provides network capabilities for HPE BladeSystems 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.

See the [*HPE OneView Support Matrix*](#) 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 and Gen9), and zero downtime updates can be performed for these embedded agents. HPE ProLiant Gen8 and Gen9 servers support agentless monitoring via iLO. 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.

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.

Standard Features

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.

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 or printed as PDF files. Pre-defined reports include:

- Alerts Report
- Users Report
- Server Inventory
- Server Firmware Inventory
- Server Profiles Inventory
- Enclosure Bay Inventory
- Enclosure Inventory
- 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.

Standard Features

Server Provisioning	<p>HPE OneView Advanced provides the right-to-use a complete provisioning solution for Hewlett Packard Enterprise servers.</p> <p>This virtual appliance solution can be used to install and configure HPE ProLiant servers using resources such as OS Build Plans and scripts to run deployment jobs. Server provisioning features allow you to:</p> <ul style="list-style-type: none">• Install Windows, Linux, and ESXi on HPE ProLiant servers.• Deploy operating systems to Virtual Machines (VMs).• Update drivers, utilities, and firmware on HPE ProLiant servers using the HPE SPPs.• Configure HPE ProLiant system hardware, iLOs, BIOS, HPE Smart Array, and Fibre Channel HBA.• Deploy to target HPE ProLiant Gen8 and Gen9 servers without using PXE (leveraging HPE Intelligent Provisioning), and with additional support for ProLiant G7 and G6 servers.• Run deployment jobs on multiple servers simultaneously.• Customize your HPE ProLiant deployments via an easy-to-use browser-based interface.• Create and run customized Build Plans to perform additional configuration tasks either before or after OS deployment.• Use REST API calls to perform all of the functions available from the user interface.
Remote management (HPE iLO Advanced)	<p>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:</p> <ul style="list-style-type: none">• 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.
Environmental management	<p>HPE OneView Advanced integrates resources to provide you with a power monitoring and energy management solution that is designed to scale to the level</p>

Standard Features

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 Gen8 and Gen9 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.

Standard Features

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. See the [*HPE OneView technical documentation*](#) and the [*HPE OneView Community forum*](#).

VMware vCenter Server, Operations Manager, and Log Insight (integrations)

HPE OneView for VMware vCenter, the rebranded "HPE Insight Control for VMware vCenter" solution, seamlessly integrates the manageability features of HPE ProLiant, 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.

New integrations for VMware vCenter Operations Manager and VMware vCenter Log Insight 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 by automating responses to hardware events.
- Take control by launching your trusted HPE management tools.
- Proactively manage changes with detailed relationship dashboards.
- Leverage on-demand server and storage capacity.
- Maintain stability and reliability with online firmware inventory and deployment.
- Leverage deep analytics and troubleshooting using integrations with VMware vCenter Operations Manager and Log Insight.

Standard Features

Extensions for VMware vCenter 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 Manager and VMware Log Insight integrations are licensed with HPE OneView only. To download, visit: <http://www.hp.com/go/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 must be purchased separately and is not included with HPE OneView.

Microsoft System Center (integration)

HPE OneView integrates with Microsoft System Center Server to deliver powerful Hewlett Packard Enterprise 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)

- Proactively monitor and manage hardware health on servers running Windows and Linux, as well as BladeSystem enclosures and HPE Virtual Connect. A consolidated health view reflects the HPE OneView model, showing relationships between managed devices, including 3PAR 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 Gen8 and Gen9 servers without the need for loading OS-based SNMP agents or WBEM providers.
- Launch HPE remote management tools (such as iLO, OA, VCM, and HPE OneView) directly from the SCOM console.

System Center Configuration Manager (SCCM)

- Provides quick and reliable Windows deployment to bare metal Hewlett Packard Enterprise servers.
- Ensures consistency and maximize uptime with simplified Windows driver

Standard Features

and firmware.

- Provides detailed component level inventory of every managed HPE Windows server.

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

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

NOTE: Microsoft System Center must be purchased separately and is not included with HPE OneView.

Red Hat Enterprise Virtualization (integration)

The HPE OneView integration for Red Hat Enterprise Virtualization (RHEV) is a user interface plug-in that seamlessly integrates the manageability features of HPE ProLiant, HPE BladeSystem, and HPE Virtual Connect within the RHEV management console. Shifting from one management tool to another, each with a partial view of available data, is both time consuming and complex. Administrators gain insight and control of their Hewlett Packard Enterprise infrastructure while supporting their Red Hat virtualized environment from a single screen. This reduces the time to make important changes and to manage downtime.

HPE OneView for Red Hat Enterprise Virtualization (RHEV) provides the following capabilities from within the RHEV management console:

- Displays host and infrastructure inventory and health information on a single screen, reducing IT administration time and effort.
- Displays network relationships from the RHEV-defined network to the physical switch.
- Provides single sign-on capability to trusted Hewlett Packard Enterprise infrastructure tools, including Onboard Administrator, iLO, and Virtual Connect.
- Single screen display of host firmware including: System ROM, iLO, Smart Array, Power management controller, Onboard Administrator, & Virtual Connect module.
- Logs events and delivers notifications into a dedicated newsfeed.

The "HPE OneView for Red Hat Enterprise Virtualization" integration extensions (previously known as "HPE Insight Control for Red Hat Enterprise Virtualization") can be downloaded at <http://www.hp.com/go/ovrhev>.

This integration enables you to view both virtual and physical infrastructure together -- from your preferred management console.

NOTE: Red Hat Enterprise Virtualization (RHEV) must be purchased separately and is not included with HPE OneView.

Standard Features

HPE ConvergedSystem 700	<p><u>HPE ConvergedSystems 700</u> is a pre-engineered, balanced system that can dramatically simplify your IT environment. It is based on market-leading HPE Converged Infrastructure technology, including HPE BladeSystem servers, HPE 3PAR StoreServ storage, and HPE Networking. The system is easy to procure, manage, scale, and support. This optimized solution can lower the cost and reduce the risk of virtualization deployments.</p> <p>HPE OneView integration with VMware vCenter and with VMware Operations Manager in the HPE ConvergedSystems 700 provides administrators with increased visibility and control over performance and capacities, while ensuring service levels and operational efficiency in dynamic virtualized environments. Management from a single-pane-of-glass is complemented by HPE Proactive Care support, resulting in a reliable end-to-end solution.</p>
HPE Operations Analytics for HPE OneView	<p>"HPE Operations Analytics for HPE OneView" provides "Big Data" analytics for your IT Operations. This HPE OneView solution leverages data from HPE OneView to provide real-time troubleshooting of your converged infrastructure, viewing of the overall health of the data center, and predictions of when infrastructure capacity will be exhausted. This solution spans capabilities from triage and diagnosis, to stakeholder analysis, to decision support.</p> <p>"HPE Operations Analytics for HPE OneView" is an optional licensed solution for HPE OneView Advanced and requires as an independent purchase. The full power of <u>HPE Operations Analytics</u>, which brings tiered applications and virtualization together with physical converged infrastructure, requires a full HPE Operations Analytics license (available from HPE Software).</p>
HPE Virtualization Performance Viewer for HPE OneView	<p>"HPE Virtualization Performance Viewer for HPE OneView" is cloud-ready, enterprise-class software for virtualization management that seamlessly integrates with HPE OneView. Capacity optimization capabilities for physical, virtual, and cloud use are complemented with single-pane-of-glass manageability of the physical infrastructure elements (servers, storage, and networking). Infrastructure sizing recommendations improve efficiency and reduce costs. Your infrastructure administrator can assess the risks of planned or unplanned downtime for a server (or enclosure), rebalance (i.e. flex) clusters, and achieve optimal configurations for the best workload performance.</p> <p>"HPE Virtualization Performance Viewer for HPE OneView" is an optional license for HPE OneView Advanced and requires as an independent purchase. Incremental purchases, outside of HPE OneView, require a full <u>HPE Virtualization Performance Viewer</u> license (available from HPE Software).</p>
HPE Operations Orchestration	<p><u>HPE Operations Orchestration</u> is an industry-leading IT run-book and process automation solution. It can automate 60% of administrative tasks (like provisioning, configuration, patching, and upgrades) and it provides out-of-box codified best practices to enforce standards and improve agility. Up-to-date</p>

Standard Features

compliance information enables remediation. You can also automate across physical and virtual servers to decrease the downtime and risk associated with manually-intensive, error-prone tasks.

The HPE OneView integration helps you to develop, deploy and manage automations with ease. Its comprehensive integration capabilities and content span multiple IT domains to automate your IT tasks, operations, and processes. As part of the HPE Solutions Content Pack for HPE Operations Orchestration 10.0 release, this integration implements a set of workflows that might support HPE OneView for tasks and activities, authentication, storage, and various network types.

HP OneView Features: Standard and Advanced



Features	HP OneView Standard	HP OneView Advanced
Partner Integrations		X
Software-defined infrastructure (profiles, groups, sets...)		X
Storage provisioning and SAN zoning		X
Virtual Connect advanced management		X
Firmware management		X
Power management (3D visualization)		X
OS provisioning		X
Remote management		X*
Map View	X	X
Smart Search, Activity View, Dashboard	X	X
Monitoring	X	X
Inventory	X	X
Reporting	X	X
REST API access	X	X
Technical Support & Software Updates	1-year 9x5 support (option)	3-years 24x7 support (standard)

* HP OneView Advanced with HP iLO Advanced

Supported Product

Hardware Support

HPE Server Hardware Platforms

Customers should consult the HPE OneView Support Matrix for specific platform support at <http://www.hp.com/go/oneview/docs>.

- HPE OneView Advanced supports management on:
 - o HPE ProLiant rack servers (Gen8 and Gen9), and
 - o HPE BladeSystem (G7, Gen8, and Gen9) c7000 infrastructure.
- HPE OneView Standard supports inventory, health monitoring, alerting, and reporting on:
 - o HPE ProLiant rack servers (G6, G7, Gen8, and Gen9), and
 - o HPE BladeSystem (G6, G7, Gen8, and Gen9) 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: <http://www.hp.com/go/oneview/docs>

Appliance support and requirements

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

NOTE: See the HPE OneView Support Matrix for the most current requirements at <http://www.hp.com/go/oneview/docs>

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
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

CLIENT-SIDE SOFTWARE REQUIREMENTS



Supported Product

Supported Internet browsers

Mozilla Firefox 40.x

Mozilla Firefox Extended Support Release (ESR) 38.x

Chrome 44.x

The browsers listed here have been tested and qualified for use with HPE OneView.

Consult the HPE OneView Support Matrix for more detailed information:

<http://www.hp.com/go/oneview/docs>

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, HPE Care Pack, and Warranty Information

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 <http://www.hp.com/services/insight>

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.

How to Use Your Software Technical Support and Update Service

Once registered, you will receive a service contract in the 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 (<http://www.hp.com/go/hpsc>)

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 pages

(<http://welcome.hp.com/country/us/en/support.htm>) provide the latest software and drivers for your ProLiant products.

HPE Service Pack for ProLiant (SPP) (<http://www.hp.com/go/spp>)

HPE Service Pack for ProLiant (SPP) with HPE Smart Update Manager (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.hp.com/go/SmartUpdate>
- Product Change Notifications (PCNs), Customer Advisories (CAs), and software driver alerts are proactively delivered through Subscriber's Choice at <http://www.hp.com/go/myadvisory>

Service and Support, HPE Care Pack, and Warranty Information

Contact Support

HPE Worldwide Customer Service contact numbers are available at <http://www.hp.com/country/us/en/wwwcontact.html>. For U.S. customers, say "HPE OneView" when prompted for the product name.

Online Community Forum

Share your Experience (<http://www.hp.com/go/oneviewcommunity>)

The HPE OneView community is an online forum for customers and partners to share their experiences and pose questions related to HPE OneView. Community members along with HPE representatives can assist with answering questions.

HPE Education and Training Services

Today's business climate is changing rapidly, with requirements for responsiveness, adaptability, and flexibility that are more important than ever before. The ability of individuals and enterprises to learn and utilize technology is key, as well as the new business models and processes such learning supports. These knowledgeable people will prove to be your ultimate competitive advantage. In the end, people are the business, and the business with the best people wins the competitive battle.

Your purchase of HPE OneView Advanced also entitles you access to web-based training (WBT) to build basic product proficiency. This training includes an overview of the product, features and benefits, architecture, use cases, and expected future enhancements. Product use is demonstrated and information is provided on where to find additional information and support. To redeem your WBT course, visit <http://www.hp.com/learn/OneView/bundle>.

The HPE OneView Administration 3-day course (Course # H4C04S) is recommended to equip attendees with the skills and knowledge to use HPE OneView:

- Skills to provision the data center, manage and maintain firmware and configuration changes, monitor the data center, and respond to issues.
- Skills for environment planning, installation, configuration, and management of HPE Converged Infrastructure (CI) components.
- Specific skills include HPE Converged Infrastructure provisioning, firmware management, configuration, connectivity and storage management, environment visualization, alerting, and notification.

Training from Hewlett Packard Enterprise provides knowledge and skill enhancement for the many critical technologies to enable customers to get the most out of their HPE ProLiant infrastructure investment:

- HPE ProLiant and HPE BladeSystem management solutions, and their supporting HPE Insight, HPE OneView and HPE Virtual Connect management tools.
- HPE CloudSystem and HPE ConvergedSystem solutions.
- HPE Hyperscale solutions, including the HPE Moonshot portfolio.
- Virtualization using partner technologies from VMware, Red Hat, and Microsoft.
- Virtualization using HPE technologies such as Virtual Machine Monitor (VMM) or HPE Matrix Operating Environment.
- Your operating system of choice, such as Microsoft Windows or Linux.

For class schedules, registrations, and locations worldwide, visit <http://www.hp.com/learn/contact>.

Service and Support, HPE Care Pack, and Warranty Information

Unlock the full potential of your HPE ProLiant and HPE BladeSystem investment with training from HPE!

Book your training today at <http://www.hp.com/learn/proliant>.

Related Options

HPE Care Pack Services

HPE Technical Services

HPE Care Pack Service for Proliant and ConvergedSystem Training	HF385E
HPE Education Care Pack (flex)	HF385A1

Service Offerings (HPE Per Event Services)

NOTE: For more information, see

<http://www.hp.com/services/oneviewservices>.

HPE OneView Startup Installation and Configuration Service (fixed)	U1V78E
HPE OneView Startup Installation and Configuration Service (flex)	H6K67A1
HPE OneView Installation and c7000 BladeSystem Migration Service (fixed)	U1V79E
HPE OneView Installation and c7000 BladeSystem Migration Service (flex)	H6K68A1
HPE OneView c7000 BladeSystem Installation and Migration Add-on Service (fixed)	H4W69E
HPE OneView c7000 BladeSystem Installation and Migration Add-on Service (flex)	H8Q65A1
HPE OneView Startup with Insight Control server provisioning Service (fixed)	U0RA2E
HPE OneView Startup with Insight Control server provisioning Service (flex)	HA124A1#5TF

Foundation Care Support Uplifts for HPE OneView Advanced

HPE 4 year 24x7 OneView with iLO Software Foundation Care Support	U2WM8E
HPE 5 year 24x7 OneView with iLO Software Foundation Care Support	U2WM9E
HPE 4 year 24x7 OneView w/o iLO Software Foundation Care Support	U2WN0E
HPE 5 year 24x7 OneView w/o iLO Software Foundation Care Support	U2WN1E
HPE 4 year 24x7 OneView BL 16-Svr Software Foundation Care Support	U2WM6E
HPE 5 year 24x7 OneView BL 16-Svr Software Foundation Care Support	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.



Related Options

HPE 3 year 24x7 OneView with iLo Proactive Care Service	U0SJ5E
HPE 4 year 24x7 OneView with iLo Proactive Care Service	U0SJ6E
HPE 5 year 24x7 OneView with iLo Proactive Care Service	U0SJ7E
HPE 3 year 24x7 OneView w/o iLo Proactive Care Service	U0SK0E
HPE 4 year 24x7 OneView w/o iLo Proactive Care Service	U0SK1E
HPE 5 year 24x7 OneView w/o iLo Proactive Care Service	U0SK2E
HPE 3 year 24x7 OneView BL 16-Svr Proactive Care Service	U0SK5E
HPE 4 year 24x7 OneView BL 16-Svr Proactive Care Service	U0SK6E
HPE 5 year 24x7 OneView BL 16-Svr Proactive Care 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 24x7 OneView 16-Server Proactive Care Advanced Service	U5HB7E
HPE 4 year 24x7 OneView 16-Server Proactive Care Advanced Service	U5HB8E
HPE 5 year 24x7 OneView 16-Server Proactive Care Advanced Service	U5HB9E
HPE 3 year 24x7 OneView w/ Integrated Lights-Out Proactive Care Advanced Service	U5HC0E
HPE 4 year 24x7 OneView w/ Integrated Lights-Out Proactive Care Advanced Service	U5HC1E
HPE 5 year 24x7 OneView w/ Integrated Lights-Out Proactive Care Advanced Service	U5HC2E
HPE 3 year 24x7 OneView w/o Integrated Lights-Out Proactive Care Advanced Service	U5HC3E
HPE 4 year 24x7 OneView w/o Integrated Lights-Out Proactive Care Advanced Service	U5HC4E
HPE 5 year 24x7 OneView w/o Integrated Lights-Out Proactive Care Advanced Service	U5HC5E

Support for HPE OneView Standard

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

Support for HPE Operations Analytics and HPE Virtualization Performance Viewer Integrations with HPE OneView	
HPE SW Enterprise Standard 1yr 24x7 Support	HM610A1 #TM2
HPE SW Enterprise Standard 3yr 24x7 Support	HM610A3 #TM2



Technical Specifications





Environment-friendly Products and Approach	End-of-life Management and Recycling	<p>Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.</p> <p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HEWLETT PACKARD ENTERPRISE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.</p>
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Summary of Changes


Date	Version History	Action	Description of Change
11-Mar-2016	From Version 14 to 15	Changed	Typo on SKU corrected (PB31A changed to P8B31A)
28-Sept-2015	From Version 13 to 14	Changed	Changes made to the Overview, Models, Standard Features, Supported Products and Related Options Sections for the Thyme NPI.
01-Jun-2015	From Version 12 to 13	Changed	Changes made to the Overview, Models, Standar Features and Related Options Sections
03-Apr-2015	From Version 11 to 12	Changed	Changes made to the HPE Care Pack Services section
30-Mar-2015	From Version 10 to 11	Changed	Changes made to the Models and What's New Sections. Update SKUs descriptions.
18-Dec-2014	From Version 9 to 10	Changed	Changed made to the Service and Support and What's New Sections.
01-Dec-2014	From Version 8 to 9	Changed	Changes made throughout the QuickSpecs.
09-Sep-2014	From Version 7 to 8	Changed	Gen9 Update, product descriptions updated
21-May-2014	From Version 6 to 7	Changed	Text and format in Overview, Standard Features and Support Product sections were updated
18-Feb-2014	From Version 5 to 6	Added	<p>Added the What's New Section:</p> <p>HPE OneView 1.05 provides the following enhancements for infrastructure management:</p> <p>VMware vCenter Server integration with HPE OneView delivers powerful Hewlett Packard Enterprise hardware management capabilities directly from the vCenter console to virtualization administrators</p> <p>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</p> <p>RAID support for HPE ProLiant blade servers allows local storage configuration support (ACU/SSA) in server profiles</p> <p>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</p> <p>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</p>
09-Dec-2013	From Version 4 to 5	Changed	Changes made in the Models and the Supported Product sections.

Summary of Changes

22-Oct-2013	From Version 3 to 4	Changed	Changes made in the North America Versions only.
04-Oct-2013	From Version 2 to 3	Changed	Changes made to both remove and add various part numbers from the Standard Features and Related Options sections.
26-Sep-2013	From Version 1 to 2	Added	Added "HPE" in front of OneView throughout the QuickSpecs.



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