

Overview

HPE Network Orchestrator

Storage Area Networks and the tools that are used to manage them have become increasingly complex. Because of this, SAN administrators spend more time learning multiple SAN tools and in labor intensive configuration tasks – tedious manual activities which can potentially result in unplanned downtime. The reasons for the complexity include the increased adoption of Virtualization – a complexity stemming from mapping the virtual and physical layers of the SAN and the adoption of multiple protocols such as iSCSI along with Fibre Channel.

HPE Network Orchestrator modernizes the storage network enabling businesses to increase productivity, scale and improve the efficiency of their storage investments. SAN configurations are often tedious and prone to human-error and frequently in multi-protocol environments. Delivering automation, orchestration and fabric services empowers administrators to provision storage error-free and arrange fabric services for increasing fabric resiliency. HPE Network Orchestrator delivers fabric configuration validation using Single Point of Connectivity Knowledge (SPOCK). This storage network architecture, provided in a self-contained virtual machine assesses the health of physical ports with self-healing, fabric monitoring, while performing end-to-end diagnostics, using predefined templates to reduce configuration errors.

Models

Description

	SKU
HPE Network Orchestrator E-LTU	Q9Y41AAE
HPE Network Orchestrator Enterprise E-LTU	ROH75AAE
HPE Network Orchestrator Enterprise Upgrade E-LTU	ROH76AAE

Standard Features

Features

Easy availability

- HPE Network Orchestrator is available with Linux-based Open Virtual Appliance (OVA).
- Easily deployable on VMware or a Windows hypervisor.
- Easy migration from prior releases

Improve Customer Experience with fine-grain visibility

- The HPE Network Orchestrator provides ease of configuration, monitoring and zero-errors.
- Fine-grain visibility into Storage Fabrics (FC + Ethernet).
- Predictive Fabrics, Self-Healing Networking.
- Automate SPOCK validation.
- Manipulation of resources through REST APIs.

Orchestrate Fabric Services Across Multi-protocols

- The HPE Network Orchestrator arranges and monitors end-to-end multi-protocol fabrics with HPE Storage family of products to increase fabric up time, resiliency and predictability.
- Predefined and custom templates enables fabric configuration consistency and repeatability.
- Quickly generate templates that are pre-configured and/or customized configurations, which can apply to manage elements on specific devices thereby reducing human-error while facilitating sharing of best practices.
- Pre-defined templates also available for HPE Complete partner products to assist in partner product environment configuration.

SAN Pre-deployment Verification With HPE SPOCK Assurance

- The HPE Network Orchestrator validates the integrity, interoperability, and compliance of Hewlett Packard Enterprise storage, servers and network fabric infrastructures before or during deployment.
- Keep the SAN and fabric infrastructure in ideal health by making informed decisions with better supportability and predictability.
- Assess, report and remedy for improved fabric health.

Visualize Managed Elements of the Fabric End-to-end

- The HPE Network Orchestrator allows the administrator to understand what devices are connected end-to-end and view fabric visibility while launching a sequence of steps to create the topology view of the managed elements.
- Discover managed elements including: HPE Storage, HPE M-series Ethernet switches, HPE B-series Fibre Channel switches, HPE C-Series Fibre Channel switches, HPE Complete partner products, qualified 3rd party Ethernet switches, adapters (HBAs, NICs, CNAs), cables and optical transceivers. You can refer to the [SFO SPOCK document](#) for a complete list of compatible products.
- Monitoring of device health and link status of Fibre Channel and Ethernet adapters installed in HPE servers running iLO5.

End-to-end Monitoring With Self-healing Capabilities

- The HPE Network Orchestrator monitors activities and generates events for action, auditing and reporting.
- Administrators can monitor various parameters end-to-end to make informed decisions based on alerts with other fabric services to remedy a situation. Delivering an easy way for administrators to be alerted about storage networking issues.
- Builds on the basic diagnostic ready fabric capabilities with advanced diagnostic assessment to monitor and quickly identify states of physical ports for root cause analysis, failure impact assessment and self-healing for improved performance.

Notes: Since Brocade has EOL'ed BNA, NetO will provide support for new HPE B-series switches through FOS (Fabric Operating System). Existing B-series/BNA customers can migrate to B-series/FOS. However, NetO permits the coexistence of both B-series/FOS and B-series/BNA but both cannot be used to manage the same switches at the same time.



Standard Features

Software Licensing

HPE Network Orchestrator Evaluation

Network Orchestrator comes with 120 days of evaluation. During these 120 days, all the features of the NetO will be available.

- **HPE Network Orchestrator Base E-LTU**
Notes: User to apply this license for up to 6 switches in the fabric.
- **HPE Network Orchestrator Upgrade E-LTU**
Notes: If the user had applied the license for up to 6 switches but now have added more than 6 switch, then user should apply upgrade switch LTU license.
- **HPE Network Orchestrator Enterprise E-LTU**
Notes: If the user has more than 6 switches, then user should apply unlimited enterprise switch LTU license.

How to download Network Orchestrator Software?

Network Orchestrator can be downloaded from HPE Software Depot web portal.

<https://h20392.www2.hpe.com/portal/swdepot/index.do>

Support Matrix

For detailed and the most current interoperability information and supporting documentation, refer to the comprehensive Support Matrix at <http://www.hpe.com/storage/spock>

Installer Support Matrix:

For detailed and the most current installer support matrix, refer to the comprehensive Support Matrix at

<http://www.hpe.com/storage/spock>



Service and Support

Software Technical Support and Update Service

HPE Network Orchestrator (NetO) software products include three years of 9x5 HPE Software Technical Support and Update Service. This service is available 9 hours per day between 8:00 a.m. and 5:00 p.m. local time, Monday through Friday excluding HPE holidays. The service provides access to HPE technical resources for assistance in resolving software operations issues, and, also provides access to software updates and reference manuals in electronic form.

Notes: [HPE Network Orchestrator \(NetO\) software is customer installable.](#)

HPE Pointnext - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get Faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

Managed services to run your IT operations

HPE GreenLake Management Services provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

Free up resources with Operational Services from HPE Pointnext Services

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

Recommended Services

HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>



Service and Support

HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/complecare>

Other related services from HPE Pointnext Services

HPE Service Credits

Offers flexible services and technical skills to meet your IT demands as your business evolves. With a menu of services, you can access additional resources and specialist skills to help you maintain peak performance of your IT. HPE Service Credits help you proactively respond to your dynamic IT and business needs.

HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a brand-new digital and data driven customer experience.

Sign into the customer engagement platform, featuring modern self-serve case creation and management capabilities with inline knowledge recommendations. You will find powerful troubleshooting support through a new intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>

The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

Notes:*HPE Support Center Mobile App is subject to local availability



Service and Support

For more information

- <http://www.hpe.com/services/>
- <https://www.hpe.com/us/en/services/operational.html>

To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner.

Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

HPE Support Services are sold by HPE and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
 - Customers purchasing from a commercial reseller can find HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>
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Summary of Changes

Date	Version History	Action	Description of Change
04-Oct-2021	Version 8	Changed	Service and Support section was updated.
02-Aug-2021	Version 7	Changed	Service and Support section was updated.
01-Jun-2020	Version 6	Changed	Standard Features section was updated.
09-Mar-2020	Version 5	Changed	Standard Features section was updated.
06-Jan-2020	Version 4	Changed	Overview, Standard Features and Service and Support sections were updated.
07-Oct-2019	Version 3	Changed	Overview section was updated.
05-Aug-2019	Version 2	Changed	Overview and Features sections were updated.
04-Sep-2018	Version 1	New	New QuickSpecs.



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