



# HPE NETWORK FUNCTIONS VIRTUALIZATION (NFV) VALIDATED CONFIGURATIONS

## Network Functions Virtualization (NFV)



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### WHAT'S NEW

- A validated architecture for NFV Telco Cloud designed with the CSP and based on HPE's experience with NFV System and NFV PoCs using industry leading servers, storage, networking and software products.
- Pre-integrated and verified solutions with

### OVERVIEW

Are you looking to move HPE Network Functions Virtualization (NFV) solutions into your production networks? Most Communication Service Provider (CSPs) are seeking technology that is easily operationalized, highly available and accommodates lifecycle management. HPE Network Functions Virtualization (NFV) Validated Configurations (VCs) provide

automated scripts to shorten build times, a simplified Bill Of Materials for easy ordering at scale and pre-configuration completed to customer requirements.

- Solution-aware support and 3rd party support on a case-by-case basis, with direct access to the HPE NFV specialized support team for a premium service.
- The capability to combine HPE industry leading products with 3rd party components of choice.
- Choice of virtualized infrastructure manager (VIM) including HPE Helion OpenStack Carrier Grade and Red Hat OpenStack Platform (OSP).

CSPs with a verified, pre-integrated NFV platform backed with end-to-end solution support. The NFV VCs are co-designed with customers including their choice of 3rd party hardware and software components – leveraging HPE’s extensive knowledge of NFV best practices. The NFV VCs provide flexibility, accelerated deployment, reduced risk, faster time to value, and finally NFV solution aware support with a single point of contact. It suits CSPs who have made specific choices in software, server, or networking technologies or vendors, but still want to make NFV deployment fast and risk-free.

## FEATURES

### Open Approach Results in Choice for the CSP

Customer choice is accommodated in terms of Top Of Rack switching for example, Cisco, Juniper or Arista switches instead of HPE Networking Switches.

Open source: Our HPE and partner solutions are typically based on Linux, OpenStack, and KVM implementations; additional open source components are used.

Currently available with a choice of HPE Helion OpenStack Carrier Grade or Red Hat OpenStack Platform (OSP), or if preferred other VIMs considered based on customer requests.

Storage: Support for Wind River Titanium Cloud Ceph Storage or Red Hat Ceph Storage, and HPE’s storage solutions including HPE StoreVirtual VSA and HPE 3PAR, additional storage based on customer demand.

Flexibility to include additional software components like orchestrator solutions, VNFs, etc.

### Minimize Risk of Implementing an NFV Platform

HPE Network Functions Virtualization (NFV) Validated Configurations include a whitepaper describing the configuration, the publication of hardware/software compatibility matrix and a simplified Bill Of Materials (BOM) for ordering.

Built in the HPE factory or at the customer site. HPE NFV Validated Configurations will include detailed build instructions and artifacts for hardware integration, software installation and configuration based on customer provided inputs.

Build validation is done within the HPE Labs that delivers error free build procedures. Validation includes test that ensures NFV readiness of the platform.

Direct access to dedicated NFV Specialist team for support issues.

AC, DC and NEBS compliant solutions are available.

### Once Designed HPE NFV Validated Configuration Ships Like a Product

Once designed HPE Network Functions Virtualization (NFV) Validated Configurations ship like a product. Automated installation scripts will be developed (based on the components in the configuration) that would significantly decrease the installation and configuration timelines.



Once designed, the bill of materials is well-defined, and it is simple to order, build, ship, and set-up at the customer's site at scale.

Automation scripts can be used for deployment of VIM and configuration of hardware and software components. For example, RH OSP deployments have been decreased by 75% utilizing automation script.

Integration can be done in the HPE factory, including third party components or alternately on-site through HPE PointNext Consultants if preferred based on the build instructions and artifacts provided as part of the Validated Configuration.

Third party components can be integrated in HPE factory, however components need to be procured and supplied to HPE by customer.



For additional technical information, available models and options, please reference [the QuickSpecs](#)

## HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[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 Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

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- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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

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