



# HPE NETWORK FUNCTIONS VIRTUALIZATION (NFV) SYSTEM

## Network Functions Virtualization (NFV)



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### WHAT'S NEW

- Choice of virtualized infrastructure manager (VIM) - Helion OpenStack Carrier Grade 4.0 or Red Hat OpenStack Platform 10
- Choice for open source based software defined storage (HPE HCG CEPH or Red Hat CEPH)
- Support up to 500 compute nodes.

### OVERVIEW

Are you looking for a complete network function virtualization solution? HPE NFV System, a turnkey NFV infrastructure platform, includes choice of Virtual Infrastructure Management software (HPE Helion OpenStack Carrier Grade or Red Hat OpenStack Platform) and choice of storage (CEPH, HPE VSA, HPE 3PAR). The NFV System delivers pre-configured, pre-integrated, pre-tested solutions for quick, simple NFV deployments. These are designed to help CSPs and network

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Expandable control plane for compute node scale

- Configuration flexibility with a granular selection of compute, storage and memory
- Optional Centralized Logging servers consolidates logs from all platform elements

equipment providers (NEPs) to move from proof of concepts and trials to live deployment of complete NFV solutions. The NFV System is offered in "right sized" bundles of fully validated hardware and software that allows CSPs to start their NFV journey as small as needed and to scale-up as demand grows. The pre-packaged kits are interoperable with third-party VNF providers (HPE OpenNFV program and Red Hat Partner program) providing a broad base of innovation and proven solutions.

## FEATURES

### Simple to Deploy

HPE Network Functions Virtualization (NFV) System simplifies the deployment of NFV for communications service providers (CSPs), since it is simple to buy, deploy, operate and support with NFV System packaging and part numbers.

It offers turnkey bundled configurations for faster deployment with consistent management tools across the data center.

A single primary installer supports all software installations.

You get out-of-the-box automation features for simplified operations.

The NFV Solution Support part number is to set-up service on the system.

### Open Source Architecture

The HPE Network Functions Virtualization (NFV) System provides openness resulting in choices for the customer. Best in class solutions for various functions results in deployments that yield the best business results for the communication service provider (CSP).

Based on an open source platform the Carrier Grade solution is based on Linux®, OpenStack, and KVM implementations; additional open source components are also used.

Delivers OpenStack APIs—avoiding vendor lock-in that happens with proprietary solutions.

Support for multiple guest operating systems for increased flexibility.

Leverage OpenNFV Partner Program or Red Hat Partner Program to create innovative services in a rapid fashion.

### Carrier Grade

The HPE Network Functions Virtualization (NFV) System is designed for high availability for each hardware and software component to deliver no single point of failure.

Proven hardware solutions from Hewlett Packard Enterprise: servers, storage, and networking product families.

Enhanced OpenStack distribution to meet carrier grade requirements.

Provides real-time packet processing for VNFs in telco environments reducing down-time.



### New Revenue Opportunities

The HPE Network Functions Virtualization (NFV) System enables creation of innovative service models with the myriad of HPE OpenNFV VNF's and other Telco Workloads and access to the HPE Technical Services, HPE Technical Services Support, and Technical Services Consulting portfolios.

Supports communication service providers (CSPs) expansion into new technologies such as the Internet of Things (IoT).

Used as the preferred platform for many NFV solutions such as vCPE, vEPC, and vIMS.

## Technical specifications

## HPE Network Functions Virtualization (NFV) System

<b>Control servers</b>	Platform: DL360 Gen9 CPU: Intel 2640v4
<b>Compute Servers</b>	Platform: DL360 Gen9 and BL460Gen9 CPU: Intel 2695v4 and Intel 2640v4
<b>Storage Servers</b>	Platform: DL380 Gen9 CPU: Intel 2640v4
<b>Data Switch</b>	HPE 5950 (100G)
<b>Management Switch</b>	HPE 5900 (1G)
<b>Data NIC</b>	HPE 560SFP+ HPE 560M
<b>Management NIC</b>	HPE 556 FLR SFP
<b>3PAR Storage</b>	8440 4N controller
<b>Helion OpenStack Carrier Grade</b>	V2.1, V4.0
<b>OneView</b>	3.0.0.5
<b>CMC/VSA</b>	12.7
<b>NPOS</b>	V17.03
<b>Compute Cores in one OpenStack instance</b>	36-18000
<b>VSA storage capacity per storage kit</b>	10 TB – 200
<b>HCG CEPH storage capacity per storage kit</b>	9 TB – 40 TB
<b>Red Hat CEPH storage capacity per storage kit</b>	6 TB – 136 TB



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

## HPE POINTNEXT SERVICES

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### 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.

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