

VSI OpenVMS V8.4-1H1 operating environments



For years, HP has delivered systems that provide unmatched levels of reliability, high availability, performance, and scale. You have run your most mission-critical workloads on OpenVMS with complete confidence. But the requirements for disaster tolerance, security, and performance continue to scale exponentially and IT is under pressure to reduce costs. The time is right to upgrade your systems—but to do so in a way that reduces risk and provide the quickest return on investment (ROI).

VSI OpenVMS enables you to take advantage of the enormous performance gains and cost benefits of the current Intel® Itanium® processor 9500 series, while providing a seamless migration for your applications. It has been designed to consolidate your infrastructure with virtualization and provide scalability, data availability, and security, while providing up to 100 percent application availability in a properly configured cluster.

Going strong for over three decades, OpenVMS continues to meet or exceed the demands of the world's challenging IT environments.

Streamlined operating environments

Two-tier operating environment portfolio:
With VSI OpenVMS V8.4-1H1, the operating environment portfolio is simplified to only two operating environments—Base Operating Environment (BOE) and High Availability Operating Environment (HA-OE)—to better match your business requirements.

VSI OpenVMS V8.4-1H1 key features, enhancements, and benefits

Improved performance of your environment

Support for Intel Itanium Processor 9500 Series: OpenVMS customers can take advantage of faster performance running VSI OpenVMS V8.4-1H1 on HP Integrity i4 servers based on the Intel Itanium processor 9500 series. Expect up to 3.5X performance, 21 percent less energy consumption, and 33 percent lower total cost of ownership (TCO) on the HP Integrity rx2800 i4 server.¹ VSI OpenVMS V8.4-1H1 also offers outstanding performance on HP Integrity i2 servers based on the Intel Itanium processor 9300 series.

Distributed lock manager: Enables dedicated CPU resources to perform locking operations that might enhance the performance of applications and relational databases that rely on this feature.

Integrity Resource Affinity Domains (RAD) support: Enhances system performance by enabling processes to take advantage of cell local memory on cell-based servers.

TCP/IP enhancements: Improve performance of TCP/IP with a dedicated CPU as a packet-processing engine.

LAN convergence with Flex-10 technology: Reduce management requirements, the number of NICs and interconnect modules needed, and power and operational costs by configuring a single 10 Gb Ethernet port to represent four FlexNICs.

Storage capabilities: Deliver improvements with:

- Increased SCSI disk volumes that are supported from 1 TB to 2 TB
- Reduced data flowing through your network and storage required for savesets (archived data format) with a new compression feature in the OpenVMS BACKUP utility to create and restore compressed savesets on disks and magnetic tapes
- Enhanced storage connectivity by supporting the newest and fastest generation of 8 Gb Fibre Channel (FC) standup and mezzanine interface cards

¹ www8.hp.com/us/en/products/integrity-servers/product-detail.html?oid=5330448

Enable business continuity with high uptime capabilities

Clusters over TCP/IP: Brings efficiencies to cluster interconnect technology by using TCP/IP, by removing the need to route dedicated system communication services traffic over costly LAN bridging or Layer 2 services.

Cluster communication module enhancements: Improve cluster communication between nodes in an OpenVMS cluster with enhancements to the cluster communication module, which supports both LAN and TCP/IP for cluster communication.

Extended membership on shadowing: With an increase to six supported shadow sets, a balanced multi-site cluster can be designed with either:

- Two sites with three disks per site
- Three sites with two disks per site

These options meet today's leading edge design standard for disaster-tolerant storage configurations.

In addition, enhancements to the minicopy and minimerge functions improve availability by reducing the time needed to write a copy of the data to disk and synchronizing or merging data following a disk failure.

Simplify system management

Enhanced blade management: Captures more management parameters on blade servers to provide HP Systems Insight Manager (SIM) with an increase in the number of Web-Based Enterprise Management (WBEM) providers on blade servers.

Strengthen security for your systems

Secure Sockets Layer (SSL) refresh: Enhances SSL with a refresh based on the [openssl.org](https://www.openssl.org) base level, 0.9.8ze, which includes new cryptographic algorithms.

Active Directory authentication support: Improves authentication using Lightweight Directory Access Protocol (LDAP) by adding the mapping of the login name to the VMS user name in an Active Directory environment.

Secure kit delivery: Through a new process that can validate a VSI signature on the kit, the OpenVMS kit delivered to a customer can be guaranteed free of tampering from its date of manufacture.

HP OpenVMS Common Internet File System (CIFS) v1.2: Improves file security by supporting delete protection bit with mask and session security, NT LAN Manager Security Support Provider (NTLMSSP), 128-bit encryption.

DECnet enhancements: Improve security of DECnet networks by enabling DECnet over TCP/IP connections to pass through secure shell (SSH), which establishes a secure tunnel between OpenVMS systems by encrypting all DECnet traffic between them.

For information about the VSI OpenVMS V8.4-1H1 new features, visit [vmssoftware.com](https://www.vmssoftware.com).

OpenVMS continues to offer customer credit for existing Integrity operating environment licenses when you upgrade to a higher-tier operating environment or a larger Integrity system.

Software warranty

This software product is provided with a 90-day conformance warranty in accordance with the warranty terms applicable to the license purchase.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.

hp.com/go/hpfinancialservices

Get the support you need

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HP Proactive 24 Service provides proactive and reactive support, delivered under the direction of an account support manager. The support includes an assigned account team, remote monitoring, an account support plan, 24x7 hardware support with four-hour onsite response, 24x7 software support with two-hour response, and flexible call submittal. Customer incidents are addressed 24x7, 365 days a year. hp.com/services/proactivecare

HP Critical Service (CS) is for environments where downtime cannot be tolerated. It offers an integrated set of proactive and reactive services and utilizes an IT Infrastructure Library (ITIL)-based framework of proven, integrated processes to help improve availability and performance across your IT infrastructure. CS provides an assigned account team composed of highly trained IT professionals that address issues, mitigate risks, and reduce incidents.

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