

VSI OpenVMS V8.4-2L1 operating environments



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 V8.4-2L1, the operating environment portfolio offers two operating environments—Base Operating Environment (BOE) and High Availability Operating Environment (HA-OE)—to better match your business requirements.

For years, Hewlett Packard Enterprise 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 and provide scalability, data availability, and security, while providing up to 100 percent application availability in a properly configured cluster.

VSI OpenVMS V8.4-2L1 key features, enhancements, and benefits

Improved security for your encrypted communications

With VSI SSL1 V1.0, VSI introduces an updated SSL product based on the OpenSSL code base V1.0.2. VSI SSL1 V1.0 provides new keys and ciphers that meet current secure communications requirements. All OpenVMS components that are dependent on OpenSSL have been modified to make use of the new code base.

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.

OpenVMS customers can take advantage of faster performance running VSI OpenVMS V8.4-2L1 on HPE 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 HPE Integrity rx2800 i4 Server.¹ VSI OpenVMS V8.4-2L1 also offers outstanding performance on HPE Integrity i2 servers based on the Intel Itanium processor 9300 series.

Enhanced suite of OE components: Expand computing capabilities with an updated CSWS (based on Apache 2.4.12), VSI Enterprise Directory, and WBEM Services for OpenVMS.

Full BL890c i4 support: Configure a BL890c i4 system as a single 4 Blade nPar. VSI OpenVMS supports BL890c i4 configurations with 64 processor cores (Intel® Hyper-Threading disabled) and 1.5 TB memory.

System performance improvements: Gain overall system performance improvements due to elimination of alignment faults in the Extended File Cache (XFC) and RMS.

Tunable Backup Compression: Dramatically reduce save set file sizes while consuming the least CPU time possible by using the new BACKUP qualifier /ZLIB_LEVEL=n. In VSI OpenVMS V8.4-2L1, you can choose a greater or lesser degree of compression.

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:

- Support for HPE 3PAR 8000/20000 series all-flash arrays
- Increased SCSI disk volumes that are supported from 1 TB to 2 TB
- Enhanced storage connectivity by supporting the newest and fastest generation of 8 Gb Fibre Channel (FC) standup and mezzanine interface cards

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 set members, a balanced multi-site cluster can be designed with either:

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

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

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.

UEFI updated to UEFI 2.3: OpenVMS now has access to up-to-date API interfaces to industry-standard methods which support a wider range of devices, power states, and cooling.

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.

VSI 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 Phase V applications: Develop and run OSI applications using the DECnet Phase V application programming interfaces for File Transfer Access and Management (FTAM), OSI Applications Kernel (OSAK), and Virtual Terminal (VT).

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

For information about the VSI OpenVMS V8.4-2L1 new features, visit vmssoftware.com.

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