



VMS Software

VSI VMS/XDE V2026.07

Release Notes

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1. Introduction

VSI is pleased to introduce VMS Cross-Development Environment (VMS/XDE) V2026.07. For detailed information about the product, refer to [VSI VMS/XDE Installation and Configuration Guide](#).

2. Licensing

VMS/XDE requires an OpenVMS license. Additionally, some of the components included in VMS/XDE (such as compilers and certain layered products) require their own separate licenses. To purchase a license or request an evaluation license, visit <https://vmssoftware.com/products/licenses/> or contact VSI Sales at <sales@vmssoftware.com>.

3. Fixes and Improvements

In VMS/XDE V2026.07:

- Utilities that require input (SYSGEN, SDA, etc.) now behave correctly when interrupted via **Ctrl/C** or **Ctrl/Y** (bug report cases 2436, 2439, 2442, 2458, 2460, and 2480).
- The SDA command **CLUE MEMORY/LAYOUT** now displays correct output (bug report case 2430).
- Fixed several issues where the Debugger commands **STEP** and **EXAMINE** were causing crashes (bug report cases 2449 and 2450).
- The SDA command **SHOW STACK** now behaves as it does on OpenVMS (bug report case 2461).
- Fixed several SYSGEN issues that were causing DECWindows to crash on start-up (bug report case 2465, forum topic <https://forum.vmssoftware.com/viewtopic.php?f=45&t=9744>).
- The SYS\$FREESPACE.EXE utility now works correctly with all PCSI packages (bug report case 2469).
- VMS/XDE now runs correctly in unattended mode (bug report case 2471).
- Fixed several filesystem behavior issues that emerged in particular situations, such as running the GNV command **FIND**, handling files with very long names, with the percentage sign (%) in the name, or an invalid version number (bug report cases 2475, 2484, 2499, and 2507).
- Using GNV Bash when the DECC\$POSIX_STYLE_UID logical name is defined no longer causes a crash (bug report case 2481).
- Fixed the C RTL issue that emerged when the `socketpair()` function was used as `stdin/stdout` pipeline during a `vfork()` or `exec()` call (bug report case 2464).
- Improved performance for image loading and rundown (bug report cases 2455 and 2466).
- The unused logical name OSS\$ROOT has been removed (bug report case 2474).
- VMS/XDE compatibility with the Global Disk File Section has been improved; SYS\$CRMPSC_GPFILE_64 and SYS\$MGBLSC_64 system services are now supported with more options (bug report case 2453).
- Storage emulation directories with invalid names are now ignored by VMS/XDE (bug report case 2506).

- Running an audit server for the first time no longer causes a crash (bug report case 2459).
- Displaying information about an auto-starting job queue no longer causes ACCVIO (bug report case 2509).

In VMS/XDE V2026.04:

- VMS/XDE is now out of the beta testing stage; the current release is the first full release of VMS/XDE.
- The list of supported file attributes has been expanded to include "backup date", "expiration date", and "revision number".
- VMS/XDE now supports the SYSGEN utility with a few minor limitations. For more information, refer to [VSI VMS/XDE Installation and Configuration Guide](#).
- The SDA command **SHOW LOCKS** now functions correctly and displays information about existing locks (bug report case 2360).
- The command **SHOW PROCESS/CONTINUOUS** can now be interrupted via **Ctrl/C**, like on OpenVMS (bug report case 2394).

In VMS/XDE E2026.03:

- OpenVMS version in VMS/XDE has been updated to V9.2-3 Update V3.
- VMS/XDE now supports the PTHREAD\$RTL library.
- Error and exception handling in VMS/XDE has been improved to closer resemble that of OpenVMS.
- The mechanisms of process startup, image activation, and rundown have been improved to closer resemble those of OpenVMS.
- The command **MACRO/VERSION** no longer returns the unexpected line error (bug report case 2360).
- The command **SET TIME** used without arguments no longer crashes VMS/XDE (bug report case 2341).
- The behavior of SYS\$SETPRI has been fixed (bug report case 2369).
- Improved process creation performance (bug report case 2364).
- MMS no longer crashes when used in conjunction with timers (bug report case 2366).
- VMS/XDE compatibility with OpenVMS filesystem attributes has been improved (bug report cases 2326, 2347, and 2370).
- The behavior of the command **LIBR/COMPRESS/DATA=REDUCE** has been fixed (bug report case 2379).
- The F\$CUNITS crash has been fixed (bug report case 2388).
- Issue that was causing the DEBUGGER to crash on a big step has been fixed (bug report case 2365).
- SYS\$FORCEX now checks the callers privileges (bug report case 2371).

In VMS/XDE E2026.02:

- Several minor stability issues have been fixed.
- The trial period for the current demo version of VMS/XDE has been extended until March 31, 2026.

In VMS/XDE E2026.01:

- Compatibility with the native OpenVMS timers subsystem has been improved (bug report case 2120).
- Compatibility with the native OpenVMS global sections subsystem has been improved (bug report case 2057).
- Previously, if a subprocess created by the DCL command **SPAWN** crashed, VMS/XDE would also crash. This issue has been fixed in this release (bug report case 2295).
- The attributes of the file SYSUAF.TEMPLATE are now set correctly after VMS/XDE installation (bug report case 2297).
- Fatal error messages are now reported to the host OS console STDERR stream (bug report case 2310).
- The issue with the delayed DCL output after exiting from the DEBUGGER utility has been fixed (bug report case 2312).
- Previously, if a process with the initialized Common Event Flags subsystem crashed, VMS/XDE would also crash. This issue has been fixed in this release (bug report case 2319).
- A bug that was causing VMS/XDE to crash upon executing the DCL command **SET MESSAGE** has been fixed (bug report case 2322).
- The previously missing logical name LNM\$DT_FORMAT_TABLE has been added (bug report case 2323).
- An issue that was causing the FMS editor to crash upon exiting has been fixed (bug report case 1316).
- An issue with the incorrect reporting of the host OS storage read/write errors has been fixed (bug report case 2264).
- The behavior of DKC volumes has been improved to correctly handle files with no extension (bug report case 2314). For additional information, refer to [Section 3: "Known Issues and Limitations"](#).
- Newly created files now inherit the default process protection mode (bug report case 2289).
- VMS/XDE now supports the OpenVMS file security commands (bug report case 2289).
- An OpenVMS file created from an existing host system file now inherits the permissions of the host system file (bug report case 2298).
- An issue with the incorrect counting of AST quotas has been fixed (bug report case 2327).

In VMS/XDE E2025.11:

- Running VMS/XDE using the host OS root account has been disallowed (bug report case 2296).

- A bug that was causing VMS/XDE to crash when running the DCL command **MCR SYSMAN IO AUTO** has been fixed (bug report case 2286).
- A bug that was causing the access violation exception when invoking the command **SHOW DEVICES disk-name/FILES** for a disk without opened files has been fixed (bug report case 2280).
- VMS/XDE is now more stable when used on NTFS with WSL2 (bug report case 2287).
- A bug that was causing VMS/XDE to crash when getting attributes of a file for which the user does not have permissions has been fixed (bug report case 2291).
- Incorrect output of the SDA command **SHOW SUMMARY** has been fixed (bug report case 2291).
- System requirements have been revised and lowered (bug report case 2281).
- The TCP/IP routine GETADDRINFO now returns the correct information for IPv6 addresses (bug report case 2294).
- A system requirements check has been added to the installation procedure (bug report case 2282). The check validates the following:
 - Support for extended attributes
 - GLIBC/GLIBCXX version
 - Kernel version
 - Existing VMS/XDE installations on the current system
 - Whether the installation is attempted from a root account
- Added the missing DKC1 device to the full installation package.

In VMS/XDE E2025.10.1:

- Multithread stability fixes:
 - A bug that was causing VMS/XDE to hang when creating a new process has been fixed.
 - A bug that was causing VMS/XDE to hang when running multithread applications (such as JAVA) has been fixed.
- Terminal interaction fixes:
 - A bug that was causing the terminal window to hang on image rundown has been fixed.
 - A bug that was causing the terminal window to lag when running multiple subprocesses has been fixed.
- Storage devices fix:

The **SHOW DEVICE DISK /FULL** command now displays the following additional information: storage size, volume size, free space, and file limit.
- Memory information fix:

The **SHOW MEMORY** command now correctly displays the amount of permanently allocated physical memory.

- Interprocess communication fix:

Using the Module Management System (MMS) utility or the DCL command **PIPE** no longer causes VMS/XDE to hang.

- Network driver fix:

An issue with the support of Network-related \$QIO functions has been fixed, and using the SCP or FTP protocols no longer causes VMS/XDE to hang.

- Process termination stability has been improved.
- An interactive package installer has been added.
- Several minor internal fixes and improvements have been implemented.
- Documentation has been improved.

4. Known Issues and Limitations

The current version of VMS/XDE has the following issues and limitations:

- Directories containing files that are not visible to VMS/XDE (for example, files without a version number or with an unsupported version number) cannot be deleted through VMS/XDE.
- VSI Code Management System (CMS) does not work with DKC volumes because they do not support the OpenVMS file versioning feature. For more information, refer to [section A.1](#) of *VSI VMS/XDE Installation and Configuration Guide*.
- The PTHREAD\$RTL library can only use one CPU.
- OpenVMS files that have the character string ^ . in the name and no extension will be assigned an extension consisting of the characters following the last ^ . string in the name. For example, if you create a file and name it FILE^.NAME, it will be assigned the extension .NAME and stored on the host file system as FILE.NAME.
- None of the OpenVMS TCP/IP utilities are expected to work at this time. The standard OpenVMS TCP/IP configuration process is not supported and not required. TCP/IP settings (such as the IP address and the DNS settings) are configured automatically based on the host system configuration.
- The SYSMAN utility is not supported.
- The AUTOGEN command procedure is not supported.
- The MOUNT utility is not supported.
- File creation, modification, and access times are based on the host file system.
- VMS/XDE timezone configuration is set automatically based on the host system timezone settings.

Do not run the command procedures UTC\$TIME_SETUP.COM, UTC\$CONFIGURE_TDF.COM, UTC\$TIMEZONE_SETUP.COM, or DTSS\$INSTALL_TIMEZONE_RULE.COM, and do not

edit or otherwise create new versions of the file STS\$TIMEZONE_SRC.DAT. Doing so may render VMS/XDE unusable

- Changing the VMS/XDE system time manually via the **SET TIME** command is not supported.
- VMS/XDE cannot be installed or run by a root user or a user from the root group.
- The name, user ID, and group ID of the current VMS/XDE user must match those of the current host system user.
- VSI does not guarantee the correct functioning of VMS/XDE when it is installed directly on NTFS-based partitions or if NTFS-based partitions are used for the DKA0 or DKA1 storage devices.
- Symbolic links are not supported.
- The BACKUP.EXE utility cannot create physical backups.
- The SYS\$IPC system service does not work with user buffers in the P2 address space.
- The TCPIP\$IPC_SHR library is not fully supported.
- DECwindows subsystem is supported with limitations.
- USER mode stack size is limited to 2048 KB for the main thread.
- SDA and DEBUGGER utilities are supported with limitations.
- DELTA and XDELTA debuggers are not supported.
- Process and system quotas are supported with limitations.
- The command **LIBRARIAN/DATA=EXPAND/OBJ** is not supported on DKC_x storage devices.
- OpenSSH only supports client applications.