COMPAQ

Software Product Description

PRODUCT NAME: ***Compaq DECwindows Motif® for OpenVMS*, Version 1.2-6**
SPD 42.19.07

This Software Product Description describes the following two products:

- *Compaq DECwindows Motif for OpenVMS VAX*, Version 1.2-6
- *Compaq DECwindows Motif for OpenVMS Alpha*, Version 1.2-6

The Description section describes features common to both products. Any differences in product features are explicitly indicated.

DESCRIPTION

The *Compaq DECwindows Motif for OpenVMS* (DECwindows Motif) desktop environment provides a graphical user interface to the Compaq OpenVMS Alpha and OpenVMS VAX operating systems based on Motif. This interface allows users to interact with OpenVMS Alpha and OpenVMS VAX using a point-and-click technique. DECwindows Motif includes a set of integrated desktop applications that demonstrate the ease of use of this user interface and provides OpenVMS users with a base set of desktop tools.

DECwindows Motif for OpenVMS Alpha includes the New Desktop environment which is derived from the Common Desktop Environment (CDE) technology. CDE provides and defines a consistent user interface for end users and a consistent development environment for application developers across multiple platforms.

The graphical user interface that was provided in previous versions of DECwindows Motif is still available and is referred to as the DECwindows desktop. The DECwindows desktop is the only desktop available for OpenVMS VAX systems. On OpenVMS Alpha systems, the installation procedure gives users the choice of installing one or both desktops and asks which desktop should be started by default. If both desktops are installed, the user can switch desktops by restarting DECwindows.

Both the New Desktop and the DECwindows desktop are based on Motif. The Motif graphical user interface is widely acknowledged as an industry standard.

The DECwindows desktop provides two window managers: the Motif Window Manager and the XUI Window Manager. Users can switch easily between the two window managers. The DECwindows desktop productivity applications use the Motif toolkit, but they also work with the XUI Window Manager.

The DECwindows Motif, Version 1.2-6 layered product provides both run-time and programming support for the CDE Motif 1.0 toolkit (Motif Release 1.2.5) and the X Consortium's specification for the X Window System™, Version 11, Release 5 (X11R5), and provides run-time support for the Motif Release 1.1.3 and XUI toolkits and X11R4.

Programs developed for the Motif Release 1.2.2 and 1.2.3 toolkits that were provided in previous versions of DECwindows Motif can be run under the CDE Motif 1.0 toolkit. This means that users can run both XUI and Motif applications including native applications and, on OpenVMS Alpha systems, translated applications. (See the Translated Image Environment section of this SPD for more information about running translated applications.)

X Window System standards supported as part of DECwindows Motif include the X11 network protocol, a base set of workstation fonts, the C language binding

for the Xlib programming library, and the C language binding for the X Toolkit library.

Support of the X11 network protocol in the client library and display server components provides the OpenVMS VAX and OpenVMS Alpha operating systems with the ability to interoperate with other X11-compliant systems in a distributed fashion.

DECwindows Motif supports the client/server distribution inherent in the X Window System. This client/server model allows X Window System clients to run on one node and display output to another node, using a transport to communicate between the nodes. The DECwindows Motif, Version 1.2-6 product provides three transport interfaces: local shared memory, DECnet, and TCP/IP (using the *Compaq TCP/IP Services for OpenVMS* product or third-party products such as MultiNet®). Users can also provide their own transport subsystems and transport interfaces.

To determine whether a separately orderable DECwindows Motif based layered product or X application runs on or can communicate with DECwindows Motif, consult the application's Software Product Description.

Basic Components

The DECwindows Motif user environment consists of four basic components:

Session Manager

Session Manager provides the top-level user interface to a DECwindows workstation. From Session Manager, users can start applications, customize their session, and perform security management. Session Manager also lets users specify the language of the user interface for supported DECwindows applications if they have ordered, installed, and are licensed to use the appropriate DECwindows Motif language variant kits.

For more information about which DECwindows Motif desktop applications have translated user interfaces, refer to the SPD for that language variant. The DECwindows Motif language variant SPDs also contain information on specific local hardware and software support provided in the language variant kits.

Window Manager

The Window Manager lets users control the size and placement of windows. Although, the Motif Window Manager is provided as the default window manager; users can choose instead to work with the DECwindows XUI Window Manager. The window manager can be chosen by an individual user or by a system manager for an entire system.

FileView

FileView, a graphical interface to the OpenVMS file system, allows users to navigate the file system and to perform operations on files.

DECterm

DECterm is a VT320 terminal emulator that provides workstation users with a traditional character-cell interface for existing OpenVMS features and applications. It supports ReGIS and sixel but is not fully VT340 compatible. Programs written for VT52-, VT100-, VT220-, or VT320-class terminals and using OpenVMS terminal driver features operate without modification in this workstation window. DECterm also provides workstation-oriented features, such as mouse-based cursor positioning, variable screen sizes, and cutting and pasting of text between DECterm and other DECwindows Motif applications.

Extended File Specifications

Extended File Specifications (EFS) optionally extends OpenVMS file names and attributes to match those of Microsoft Windows. When coupled with *Compaq Advanced Server for OpenVMS*, EFS allows OpenVMS systems to act as fully functional file servers to Microsoft Windows clients. In addition, EFS allows OpenVMS system managers to perform OpenVMS system management functions on Microsoft Windows files from an OpenVMS account. This functionality is intended for use primarily with Compaq Advanced Server for OpenVMS, but it is possible to create and manipulate EFS file names using a subset of DCL commands. For a listing of these commands, refer to the OpenVMS Operating System documentation.

The New Desktop (Alpha only)

The New Desktop environment is derived from CDE (Common Desktop Environment) technology. CDE provides a complete desktop environment based on the CDE Motif 1.0 toolkit (Motif Release 1.2.5) and X11R5.

The New Desktop focuses on the user interface and end-user aspects of CDE technology. The New Desktop requires OpenVMS Alpha Version 6.2 or higher.

The installation procedure asks users to select the preferred desktop. This choice determines whether the DECwindows Motif login box or the New Desktop login box appears at startup. After installation, the user can switch desktops anytime.

Existing Motif Release 1.2.3 applications do not need to be recompiled or relinked to run in the CDE environment. In addition, it is possible to achieve basic integration of existing applications into CDE without making changes to the application source code.

The following CDE components are included in the New Desktop:

- Applications
  - — dtlogin: Login Manager, dtgreet
  - — dthello: Screen between Login Manager and Window Manager
  - — dtscreen: Screen saver displays
  - — dtpad: Editor
  - — dtclock: Clock
  - — dtsession: Session Manager
  - — dtstyle: Style Manager
  - — dtwm: Window Manager, Control Panel
  - — dtfile: File Manager, Application Manager
  - — dtcalc: Calculator
  - — dticon: Icon Editor
  - — dtcreate: Action database entry creation tool
  - — dthelpview: Help Viewer
  - — Security options: New Style Manager control for setting and reviewing authorized users allowed to display applications on the local workstation
  - — Keyboard Selection dialog box
  - — Input Methods Selection dialog box
  - — Save/restore support for DECwindows applications
  - — dthelpgen: utility for creating a help volume for display from the Front Panel Help Viewer
  - — dthelptag: compiles HelpTag source files into a run-time help file
  - — dximageview
- Libraries
  - — dthelp: Help utility functions
  - — dtsvc: Assorted utility routines
  - — dtwidget: CDE custom widgets

The following CDE components are replaced by existing DECwindows Motif applications:

- dtmail - Replaced by DECwindows Mail
- dtcm - Replaced by DECwindows Calendar
- dtterm - Replaced by DECwindows DECterm
- Print Manager - Replaced by DECwindows Print widget

The following CDE components are not included in the New Desktop:

- Application Builder
- ToolTalk - Inter-Client Communications Manual (ICCM) transfer mechanisms are implemented to emulate certain ToolTalk functions internally, but ToolTalk messaging services APIs are not available to develop against.
- Windowing Korn shell
- Multipurpose Internet Mail Extensions (MIME) support

Desktop Productivity Applications

DECwindows Motif for OpenVMS provides a set of integrated desktop applications that employ a common look and feel to help users easily master their computing environment.

The following desktop applications are available with DECwindows Motif, Version 1.2-6:

- Bookreader - A tool for viewing the contents of books that are distributed and stored on line.
- Calculator - A basic scientific calculator.
- Calendar - A personal time management system.
- Cardfiler - A desktop card index or flip file, similar to an online address or phone book.
- Clock - An analog and/or digital clock with an alarm.
- CDA Viewer - A tool for reading documents containing text, graphics, and image data on DECwindows workstations.
- Computer-based instruction - An online tutorial for novice Motif users; users can learn how to use the mouse and perform other simple operations with Motif.
- Mail - A DECwindows user interface to the OpenVMS Mail facility.
- Message window - A window that displays system messages, such as new mail notification or system manager messages.
- Notepad - A simple text editor.
- Paint - A simple bitmap graphics editor.
- Print Screen - A tool for capturing images on the screen. Images can be printed directly or saved to a file.
- Puzzle - A game of numbered puzzle tiles.

- DECsound - An easy-to-use application that lets you play recorded messages, record audio messages, mail recorded messages, and include recorded audio messages in documents. DECsound is available for use on TURBOchannel systems only.

Web Browser Support

The web browsers available for use with DECwindows Motif vary depending on hardware platform and OpenVMS Operating System version.

Each DECwindows Motif Version 1.2-3, 1.2-4, 1.2-5, and 1.2-6 license permits the use of Netscape Navigator for OpenVMS on a single CPU. Other options are also available. For additional information on web browser options and availability, refer to the *Compaq DECwindows Motif for OpenVMS Release Notes*.

Support for MIT Utility Programs

Several MIT utility programs, bitmaps, and the Miscellaneous Utilities Library from the MIT X11 Release 4 and 5 distribution are included in the DECW$UTILS directory of the DECwindows Motif layered product. The sources and images for a subset of these MIT utilities are included. The X Print (XPR) utility, which allows users to capture and print the contents of windows, is provided with DECwindows Motif.

DECwindows Motif for OpenVMS Online Help System

The DECwindows Motif help system uses the familiar Bookreader interface to display help and retrieve help information. This help system includes a table of contents and cross-referencing through the use of hotspots.

The DECwindows desktop applications use the DECwindows Motif help system. When invoking help, either from a help menu or from context-sensitive help, Bookreader is started and a help topic is displayed.

Local Language Support

DECwindows Motif is available in several local languages. Please contact your local Compaq office for the latest information about availability of options and supported multilingual configurations. For more details on the language variants, refer to the specific language-variant SPDs. Refer also to the Ordering Information and Software Licensing sections of this SPD.

Programming Support

The DECwindows Motif environment includes an extensive set of programming libraries and tools for use by application developers. The libraries are provided in the form of shareable images. While CDE Motif 1.0 (Motif Release 1.2.5) programming support is provided, Motif Release 1.1.3, Release 1.2.2, Release 1.2.3, and XUI programming support are not.

Three categories of libraries are provided:

- Standard X Window System libraries, such as Xlib and the Intrinsics (X Toolkit)
- CDE Motif 1.0 Toolkit support for developing applications using the Motif user interface style
- Compaq value-added libraries that give users additional capabilities:
  - — Compaq (Digital) Extensions to Motif (DXm)
  - — CDA support
  - — Porting tools for changing applications from the XUI interface to the Motif user interface

Components from each of these areas can be used in any combination to address the needs of applications. These components can also use the tools from a variety of programming languages.

Motif language bindings are provided for the following programming languages:

- *Compaq Fortran for OpenVMS VAX and OpenVMS Alpha*
- *Compaq Pascal for OpenVMS VAX and OpenVMS Alpha*
- *Compaq C for OpenVMS VAX and OpenVMS Alpha*

In addition, C header files supplied by The Open Group have been modified to work with DEC C++. Pascal and Fortran bindings are included in the DECwindows Motif kit; Motif ‘‘strongly typed’’ language bindings for Ada are available in the *Compaq Ada for OpenVMS (VAX and Alpha)* layered product.

For additional programming support, the DECW$EXAMPLES directory includes the following programming examples:

- Motif widget set examples
- X11R4 and X11R5 programming examples (Xlib examples)
- Compaq supplied examples

Programming Support Libraries

The following sections describe the programming support libraries.

X Window System (X) Programming Support

The X Window System compatible X programming library (Xlib) provided by DECwindows Motif supplies basic resource management (windows, color maps, input devices) and bitmap graphics services. It defines a mapping of the X network protocol to a procedure library.

X Window System Intrinsics Support

The X Window System Intrinsics library support contains the X Consortium Release 5 (R5) Intrinsics (X Toolkit). The X Toolkit provides low-level routines that allow the creation of user interface objects called widgets.

Motif User Interface Programming Support

Motif is the user interface for Compaq and third-party software tailored for the DECwindows environment. It establishes the conventions and styles for graphical applications. Applications use Motif components to build user interfaces that look and feel alike.

The *OSF/Motif Style Guide*, an industry standard reference manual available from Prentice-Hall, describes the principles, philosophy, and components used to build consistent and well-integrated Motif applications. In addition, the *DECwindows Companion to the OSF/Motif Style Guide* provides additional information concerning the style of Motif user interfaces. This manual also provides guidelines concerning additional features that Compaq provides in the DECwindows Motif offering, and includes a Compaq preferred terminology list for a number of supported languages for developers producing Motif applications in these languages.

The Motif style concepts are implemented by the Motif Toolkit. DECwindows Motif contains both the Motif and XUI Toolkits; application run-time support is provided for CDE Motif 1.0 (Motif Release 1.2.5) and Motif Release 1.2.3, Release 1.2.2, and Release 1.1.3 Toolkits, as well as for the XUI Toolkit. The Motif toolkit is based on the X Toolkit Intrinsics and contains three components:

- Motif widgets and gadgets for implementing common user interface objects, such as scroll bars, menus, and push buttons
- Utility routines that provide applications with functions for performing common tasks, such as cutting and pasting
- Resource manager routines for loading user interface definition files and creating widgets and gadgets based on the contents of the definition files

The Motif Toolkit is used in conjunction with the Motif User Interface Language (UIL) compiler. The user interface definition files produced by this compiler contain the data that describes the form of DECwindows applications. These UIL files also allow Motif Toolkit widget and gadget information, such as menu item labels, to be stored separately from the toolkit and application run-time code. This capability allows application developers to prototype and easily modify user interface designs, to separate form from function in applications, and to support translatable products that do not require recompilation of source files.

Compaq Extensions to Motif

The DECwindows Motif product adds value to the standard Motif Toolkit by including a library that contains a set of Compaq developed widgets and run-time routines not available from The Open Group. The following widgets provide a common DECwindows interface for some commonly used DECwindows functions:

- A Color Mix widget that enables users to select and mix colors using a variety of color models.
- A Compound String Text widget that provides support for international character sets as well as left-to-right character sets.
- A Help widget that allows applications to display appropriate Help text in a consistent manner. This widget is provided for backward compatibility with DECwindows Motif for OpenVMS Version 1.0 and has been superseded by the DECwindows Motif help system.
- A Print widget that allows applications to print files in a consistent manner.
- A Structured Visual Navigation (SVN) widget used by applications to display hierarchical information.

The run-time routines include three DECwindows Motif help system calls that enable users to display online help files using Bookreader.

Translated Image Environment (Alpha only)

DECwindows Motif for OpenVMS Alpha provides an array of services to allow the operation of programs that have undergone binary translation from DECwindows Motif Version 1.1 or XUI VAX images. These programs can perform virtually all user-mode functions on DECwindows Motif for OpenVMS Alpha systems. However, DECwindows Motif for OpenVMS Alpha shareable images that are used with translated images are different from and incompatible with the shareable images used for native images. Native and translated images that use DECwindows Motif for OpenVMS Alpha software cannot be used together in a process.

Without requiring special source code, the Translated Image Environment (TIE) automatically resolves differences between the VAX and Alpha architectures, including floating-point registers, condition codes, exception handling, asynchronous system traps, and so on.

The Translated Image Environment included with DECwindows Motif for OpenVMS Alpha is sufficient to run images that have been translated elsewhere.

XUI to Motif Porting Tools

Compaq provides tools to aid programmers in porting applications to Motif. These tools replace occurrences of XUI names in the input source file with the correct Motif names.

CDA Programming Support

The CDA Toolkit provides access routines that applications can use to create, read, and write files containing compound text, graphics, and imaging data. These files provide a vehicle for recording this information on disk, a medium for interchange of this data between applications, and an intermediate form from which high-resolution printable graphics data can be generated.

Enhanced X Windows Display PostScript (XDPS)

Beginning with DECwindows Motif, Version 1.2-6, the Display PostScript system provided with previous versions of DECwindows Motif is no longer available. Refer to the *Compaq DECwindows Motif for OpenVMS Release Notes* for additional information.

DECwindows X11 Display Server for OpenVMS Extension Support

The X11 server protocol is implemented on both the OpenVMS VAX and the OpenVMS Alpha operating systems. As of OpenVMS VAX Version 6.0, the DECwindows X11 display server on OpenVMS VAX supports the full X11 protocol and contains significant portions of the Release 4 (R4) and Release 5 (R5) code base, plus some optional extensions. By contrast, the DECwindows X11 display server for OpenVMS Alpha is a direct port of the X Window System Version 11, Release 6 (X11R6) display server, plus some optional extensions.

The DECwindows X11 display server is an optional part of the OpenVMS VAX and OpenVMS Alpha operating system kits. The DECwindows X11 display server, including device drivers and fonts, can be selected for installation during the OpenVMS VAX and OpenVMS Alpha operating system installation procedures.

The DECwindows X11 display server for OpenVMS supports the following extensions. Client libraries for these extensions are included in the DECwindows Motif for OpenVMS VAX and OpenVMS Alpha layered products.

- AccessX (Alpha only): "AccessX" as defined by Compaq. Provides keyboard enhancements to the X server for people with movement impairments.
- MITmisc: "MIT-SUNDRY-NONSTANDARD" as defined by the X Consortium. Allows users to determine and to set the server bug compatibility mode.
- MIT-SHM (Alpha only): "MIT-SHM" as defined by the X Consortium. Provides the ability to share memory XImages between the client and server.
- Multibuffering: "Multi-Buffering" as defined by the X Consortium. Allows the display server to provide support for multiple-buffered images.
- Shape (Alpha only): "SHAPE" as defined by the X Consortium. Allows programs to create windows with shapes other than the standard rectangle.
- X Imaging Extension (Version 3): "XIE" as defined by Compaq and registered with the X Consortium. Allows the display server to provide hardware or software support for imaging operations for ISL, the Image Services Library.
- XTRAP: "DEC-XTRAP" as defined by Compaq and registered with the X Consortium. Allows the display server to provide support for hands-off testing programs like DTM, the Compaq Digital Test Manager.

Documentation for DECwindows Motif for OpenVMS

The DECwindows Motif documentation consists of a user documentation set and a programmer documentation set. Both sets of documentation apply to DECwindows Motif for OpenVMS VAX and OpenVMS Alpha.

The programmer documentation is a combination of industry standard reference materials and documentation produced by Compaq that is specific to DECwindows Motif. Only the documentation produced by Compaq is shipped as part of DECwindows Motif for OpenVMS, Version 1.2-6 kit.

The documentation is available both in hardcopy and on CD-ROM. If you are ordering DECwindows Motif for OpenVMS on a CD-ROM, you will receive both the user documentation and programmer documentation produced by Compaq in Bookreader format. If you are ordering DECwindows Motif on magnetic tape media, you will receive only the user documentation in hardcopy. The programmer documentation must be ordered separately.

CDE Documentation

The Common Desktop Environment (CDE) manuals are provided in support of the New Desktop. These manuals are included in the DECwindows Motif CD-ROM kit in HTML format and can be read using a browser. They are not part of the DECwindows Motif hardcopy documentation set.

Please note that not all the information in the CDE documentation and reference pages applies to the New Desktop. For an accurate description of the New Desktop, see the *Getting Started With the New Desktop* manual.

For more information about the DECwindows Motif documentation, see *Compaq DECwindows Motif for OpenVMS Documentation Overview*.

HARDWARE REQUIREMENTS

DECwindows Motif runs on any of the supported processors but requires either a workstation, a Microsoft Windows based PC, a Macintosh®, or an X terminal for display. These display devices must be running an X Window System, Version 11, Release 4 (R4), Release 5 (R5) or Release 6 (R6) compliant display server.

Supported VAX and Alpha Processors

DECwindows Motif supports all the VAX and Alpha processors listed in the *Compaq OpenVMS Operating System for VAX and Alpha* Software Product Description (SPD 25.01.xx), with the exception of those listed in the Unsupported Processors section.

Unsupported Processors

For performance reasons, *Compaq DECwindows Motif Version 1.2-6 for OpenVMS VAX* is not supported on the following processors:

MicroVAX II

MicroVAX 2000

VAXstation II

VAXstation 2000

VAXstation 8000

VAX-11/725

VAX-11/730

VAX-11/750

VAX-11/780

VAX-11/782

VAX-11/785

Disk Space Requirements (Block Cluster Size = 1)

For Alpha Systems

Disk space required for DECwindows Motif installation	317,500 blocks
Disk space required for DECwindows Motif use (permanent)	288,500 blocks

To support full OpenVMS Alpha and full DECwindows Motif for OpenVMS Alpha, a system disk with at least 550 MB is recommended. However, a subset of the DECwindows Motif environment can be installed. Installation of DECwindows Motif for OpenVMS Alpha, Version 1.2-6 gives the user the option to install any or all of the following components:

- Run-time support (base kit) - 66,000 blocks. This section provides support for running DECwindows Motif for OpenVMS Alpha applications on Alpha compute servers and is a required part of the installation.
- New Desktop - 47,000 blocks. This is an optional component that allows use of the New Desktop environment. It includes applications and application programming interfaces (APIs).
- DECwindows desktop - 21,000 blocks. This component is also optional, but either the New Desktop or the DECwindows desktop should be installed to create a usable system. The DECwindows desktop is the user interface that was included in previous versions of DECwindows Motif and includes the DECwindows Session Manager, FileView, and the Motif Window Manager.
- Programming support - 63,000 blocks. This number includes support for the C, Pascal, and Fortran programming languages and for the New Desktop. If only a subset of languages is installed, the amount of disk space required will be less.
- Programming examples - 52,000 blocks. This number includes example audio files, the DECwindows desktop, and the New Desktop. If only a subset of example files is installed, the amount of disk space required will be less.
- Translated Image Environment - 40,000 blocks.

For VAX Systems

Disk space required for DECwindows Motif installation	119,000 blocks
Disk space required for DECwindows Motif use (permanent)	108,000 blocks

To support full OpenVMS VAX and full DECwindows Motif for OpenVMS VAX, a system disk with at least 300 MB is recommended. However, a subset of the DECwindows Motif environment can be installed. Installation of DECwindows Motif for OpenVMS VAX, Version 1.2-6 gives the user the option of installing any or all of the following components:

- DECwindows Motif run-time support files (base kit) - 82,000 blocks. This section provides support for running DECwindows Motif for OpenVMS VAX applications on VAX compute servers, and is a required part of the installation. It includes the DECwindows desktop applications and libraries.
- Programming support - 13,500 blocks. This number includes support for the C, Pascal, and Fortran programming languages. If only a subset of languages is installed, the amount of disk space required will be less.
- Programming examples - 13,000 blocks. This number includes example audio files and the DECwindows desktop. If only a subset of example files is installed, the amount of disk space required will be less.

These block sizes refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on your system environment, configuration, and software options (for example, DECwindows Motif programming examples).

Memory Requirements

For Alpha Systems

The minimum required to install, boot, and log in is 64 MB; 128 MB is highly recommended for more robust performance. Remote execution of applications requires an additional system that runs the application while the application is displayed on the local workstation.

The performance and memory usage of OpenVMS Alpha systems running DECwindows Motif for OpenVMS Alpha depend on system configuration and window and applications usage.

Please note that memory requirements may change in future releases of DECwindows Motif for OpenVMS.

For VAX Systems

The minimum memory required to install, boot, and log in is 16 MB; 32 MB is highly recommended for more robust performance. Remote execution of applications requires an additional system that runs the application while the application is displayed on the local workstation.

The performance and memory usage of OpenVMS VAX systems running DECwindows Motif for OpenVMS VAX depend on system configuration and window and applications usage.

Please note that memory requirements may change in future releases of DECwindows Motif for OpenVMS VAX.

Support for Multiple-Screen Configuration

On Alpha systems, a multiple-screen configuration consists of a single workstation that supports multiple graphics options. A graphics option consists of a graphics controller and a monitor. Please note that in a multiple-screen configuration, all the graphics cards must be of the same model. For additional information on workstations that support multiple-screens, please contact your local Compaq office or refer to the product information available at:

`http://www.compaq.com`

Miscellaneous Supported Peripherals

VSXXX-AB	Tablet (replaces mouse)
VSXXX-JA	Audio headset
VSXXX-AA	Mouse
VSXXX-FA	Mouse

CLUSTER ENVIRONMENT

This product is fully supported without restrictions when installed on any valid and licensed OpenVMS Cluster configuration.

Note: VAXcluster configurations are fully described in the *OpenVMS Cluster Software* Software Product Description (SPD 29.78.xx) and include CI, Ethernet, and mixed-interconnect configurations.

SOFTWARE REQUIREMENTS

DECwindows Motif for OpenVMS, Version 1.2-6 is supported on the following operating systems:

- OpenVMS Alpha Version 6.2, 7.1-2, 7.2-1, or 7.3
- VMS Version 5.5-2; OpenVMS VAX Version 6.2, 7.1, 7.2, or 7.3

OPTIONAL SOFTWARE

- *Compaq PATHWORKS 32* (SPD 56.33.xx)
- *Compaq TCP/IP Services for OpenVMS* (SPD 46.46.xx)
- *Compaq DECnet-Plus for OpenVMS* (SPD 25.03.xx)
- *Compaq DECnet for OpenVMS* (Phase IV) (SPD 48.48.xx)

GROWTH CONSIDERATIONS

The minimum hardware and software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

The DECwindows Motif, Version 1.2-6 software is available as a standalone layered product on the following media:

- CD-ROM (VAX and Alpha)
- TK50 streaming tape (VAX)
- 9-track magnetic tape (VAX)

Note: DECwindows Motif, Version 1.2-6 is the final release that will be available on TK50 streaming tape and 9-track magnetic tape media.

In addition, this product is available as part of the OpenVMS Software Product Library (Consolidated Software Distribution) on CD-ROM.

ORDERING INFORMATION

For Alpha Systems

Software Licenses:

Personal Use: QL-XA1A*-2B
Unlimited Use: QL-MV4A*-AA

Software Media:

Binaries and Bookreader user and programmer documentation (CD-ROM): QA-MV4AB-H8

For VAX Systems

Software Licenses:

Personal Use: QL-XA1A*-2B
Unlimited Use: QL-XA1A*-AA

Software Media:

Binaries and Bookreader user and programmer documentation (CD-ROM): QA-XA1AB-H8

Binaries and hardcopy user documentation (TK50 or magtape): QA-XA1AA-H*

Hardcopy Documentation (VAX and Alpha)

User Documentation: QA-XA1AA-GZ

Programmer Documentation: QA-XA1AB-GZ

DECwindows Motif Language Variants

Each language variant kit runs on both VAX or Alpha systems.

Software Licenses:

Personal Use: (VAX and Alpha) QL-XDD**-2B
Unlimited Use: (Alpha): QL-08U**-**
Unlimited Use: (VAX): QL-XDD**-**

Software Media:

QA-XDD*A-H8

Hardcopy Documentation:

QA-XDD**-GZ

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

SOFTWARE LICENSING

This software is furnished only under a license. For more information about Compaq's licensing terms and policies, contact your local Compaq office.

Compaq provides a DECwindows Motif for OpenVMS license Product Authorization Key (PAK) with the purchase of a VAX or Alpha workstation.

Media and online documentation kits are not provided with Factory Installed Software (FIS) systems.

Licensing of Language Variants

The language variants of DECwindows are available as options to the DECwindows Motif product. Language variants are supported only when the version number of the language variant matches the version number of DECwindows Motif for OpenVMS.

Some restrictions apply on language combinations. Refer to the relevant language variant SPD for details on supported language combinations in each country.

DECwindows Motif for OpenVMS language variants are generally supported only in countries where the language is an official language. However, for some countries this may vary. Consult the relevant language variant SPD or your local sales office to check for the availability of additional language support in your country or location.

License Management Facility Support

DECwindows Motif for OpenVMS supports the OpenVMS License Management Facility. License units for DECwindows Motif for OpenVMS are allocated on an Unlimited System Use and Personal Use basis. Each Personal Use license allows one identified individual to use the layered product.

For more information about the License Management Facility, refer to the *Compaq OpenVMS Operating System for VAX and Alpha* Software Product Description (SPD 25.01.xx) or the OpenVMS VAX and OpenVMS Alpha operating system documentation.

SOFTWARE WARRANTY

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

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Compaq. For more information, contact your local Compaq office.

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