
QTY	Model Number	Rev/Ver	Description
	QA-810AA-W5	4.2	DEC GKS FOR VMS V4.2 TK50

Consists of loose piece:

1	AQ-FV99H-BN		DEC GKS V4.2 BIN TK50
1	AV-PLZ6A-TK		SUP EXPIRATION LETTER
1	EN-01044-07		SFTWR PERFORMANCE REPORT FORM
1	AA-W156H-TE		DEC GKS INSTALLATION GUIDE
1	AE-BP36K-TE		DEC GKS V/V V4.2 SPD 26.20.10
1	AE-LT69D-TE		DEC GKS V/V V4.2SSA26.20.10-A
1	AE-NA50A-TK		SOFTWARE WARRANTY ADDENDUM
1	AV-FT65H-TE		RBI GKS LETTER
1	AV-PK3TA-TE		GKS OPTIONS LTR

EXPORT CONTENTS SUMMARY:1 TK50 CARTRIDGE
1 SOFTWARE MANUALS

6 SPD / LETTER

1 FORMS

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IMPORTANT

This Software Update Kit will only function if:

The product Authorization Key is a License PAK.

How will you know?

Before the installation of the update enter the following commands in VMS:

\$ License List/full (VMS product name)

If the authorization number begins with:

AL*- IT IS A LICENSE PAK, check to ensure that only License PAKs are active for this product. Any Service Update PAKs (SUPs) or Temporary Service Update PAKs (TSPs) should be unloaded and Disabled. Then you may proceed with the installation of the update.

AWS- It is a Service Update PAK (SUP) which must be unloaded and disabled before proceeding with the installation.

ATS- It is a temporary Service PAK (TSP) which must be unloaded and disabled before proceeding with the installation.

Before installing this update secure, install, and activate the Software License PAK for the product. If you have purchased a software license but do not have the software license PAK call 1-800-332-4636 ext. 1000

Dear Service Customer,

Enclosed is a software product update/maintenance release supplied as part of your software maintenance agreement.

As part of its planned License Management Tools program, Digital has completed replacement of all Service Update PAKs (SUPs) for licensed software products with License Product Authorization Keys (PAKs).

If by some chance you have not received your License PAKs from the SUP-TO-PAK Conversion Program at this time, or have questions concerning the program please call 1-800-332-4636 Extension 1000 for assistance.

You may already have a license PAK for the product in this maintenance update, if so, please ensure it is registered and loaded within the License Management Facility (LMF). Any Service Update PAKs (SUPs) or Temporary Service PAKs (TSPs) should be unloaded and disabled. This is important because the date check that has recently been activated on SUPs, and TSP version limitation will prevent the new version of this product from executing without the proper license PAK.

When unloading or disabling SUPs or TSPs, if you find that you need to purchase additional "license rating" to execute the software on a desired processor or system configuration please DECdirect For TOOL FREE TELEPHONE ORDERING information at 1-800-344-4825.

Thank you for your continued business and support.



Read Before Installing or Using DEC GKS

AV-FT65H-TE

Whether you are a new or continuing DEC GKS customer, please take a moment to look over the following information about your product.

Operating Systems

The installation guide for this product contains information about installing DEC GKS Version 4.2 on a VMS system.

Motif® Support

DEC GKS Version 4.2 adds support for the Motif Graphics User Interface. All the functionality provided by the DECwindows (XUI) workstation types (21x) is now available with the Motif workstation types (23x). However, one main difference exists between the DECwindows (XUI) handler and the Motif graphics handlers: the DECwindows handler uses the XUI widget set while the Motif graphics handler uses the OSF/Motif® widget set.

The new Motif workstation types are:

- 230—Output only (like 210)
- 231—Output/Input (like 211)
- 232—X Drawable (like 212)
- 233—Motif Widget (like 213)

Known limitations exist in using the DECwindows (XUI) handler with the Motif environment and vice versa. To provide upwards compatibility for applications using the DECwindows device handler, the DEC GKS Version 4.2 kit provides two DECwindows graphics handlers: the default graphics handler and an optional graphics handler. The default graphics handler is installed during installation. The default handler works best with the default version of DECwindows software shipped with Version 5.4 VMS systems. The default handler is for users with a DECwindows environment without Motif. The optional graphics handler, which is provided with the kit, is for users who have VMS DECwindows Motif Version 1.0 installed. It is a newer DECwindows graphics handler, adds new functionality, and requires the VMS DECwindows Motif Version 1.0 kit to be installed. It does not work with the older versions of DECwindows without Motif.

See the release notes for more information about using the Motif graphics handler and for a list of known interoperability problems with it.

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License PAK Information

If you are installing DEC GKS Version 4.2 on a newly licensed node or cluster, you must first register a License Product Authorization Key (License PAK) using the License Management Facility (LMF). The License PAK may be shipped along with the kit if you ordered the license and media together; otherwise, it is shipped separately to a location based on your license order.

If you are installing DEC GKS Version 4.2 as an update on a node or cluster already licensed for this software, you must register the Service Update PAK (SUP) that is included in your Service Update Kit. If you already registered a License PAK or a SUP for this product on this node or cluster, you do not need to register the SUP.

If you are installing an update of DEC GKS but lack a service contract, call your Digital representative for instructions on how to get a License PAK.

See the *VMS License Management Utility Manual* for registration instructions.

Release Notes Information

The release notes for the latest installed version of DEC GKS contain useful information such as a summary of technical changes, new features, known problems, corrected errors, performance enhancements, documentation errors, restrictions, and incompatibilities.

You can read these release notes following the installation of DEC GKS on a VMS system by typing:

```
$ HELP GKS RELEASE_NOTES
```

Note that you must have VMS Version 5.4 or higher for DEC GKS Version 4.2. Previous versions of DEC GKS do not need to be installed before this one.

Contents of This Kit

- **Bill of Materials (BOM)**

Please read the BOM enclosed in this kit, and check to see that all items listed are actually in your kit. If your kit is damaged, or if you find that parts of it are missing, please call your Digital representative.

- **Media**

If you have ordered media, you will find the media and the *DEC GKS Installation Guide* in this kit. This manual supplies the information necessary to install DEC GKS on a VMS Version 5.4 or higher system.

- **Documentation**

New DEC GKS customers will receive all of the following documentation:

- DEC GKS User Manual*
- DEC GKS Reference Manual*
- DEC GKS C Binding Reference Manual*
- DEC GKS FORTRAN Binding Reference Manual*
- DEC GKS GKS\$ Binding Reference Manual*
- DEC GKS Device Specifics Reference Manual*
- Building a DEC GKS Device Handler System*
- Building a DEC GKS Workstation Handler System*
- DEC GKS Installation Guide*

Update customers will receive only new documents. Run-time only customers will receive only the *DEC GKS Installation Guide*.

- **Software Product Description (SPD)**

Your SPD provides an overview of the DEC GKS kit and its features.

- **Software Performance Report (SPR)**

This form allows you to report any problems with DEC GKS, provided you have purchased warranty services.

- **Software Update Survey Card**

By completing this card after you install your DEC GKS kit, you provide valuable feedback to Digital on installation quality. Your feedback helps us to understand customer needs and improve our products.

A Final Note

Digital prides itself on responding to customer needs. To continue serving you, we need your comments. Each of the manuals you receive has a preaddressed, postage-paid Reader's Comments form at the back. If you find errors in a manual or wish to make comments about it, please fill out one of these forms and send it to us.

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Documentation Packaging Letter

AV-PK3TA-TE

Digital is providing new documentation packaging for DEC GKS, beginning with Version 5.0, to be more responsive to your individual needs. The new packaging will reduce the number of manuals you need to have open at any one time and will decrease the costs of buying documentation for customers who need to use only one language binding.

Beginning with DEC GKS Version 5.0, you can select from three options for buying your documentation: the full documentation kit, a base kit and one binding manual, or individual manuals.

Option 1: Full Documentation Kit

You can select the full documentation kit, which includes the following manuals:

- *DEC GKS User Manual*
- *DEC GKS GKS\$ Binding Reference Manual*
- *DEC GKS GKS3D\$ Binding Reference Manual*
- *DEC GKS C Binding Reference Manual*
- *DEC GKS FORTRAN Binding Reference Manual*
- *Device Specifics Reference Manual for DEC GKS and DEC PHIGS*
- *Building a Device Handler System for DEC GKS and DEC PHIGS*

The full documentation kit also includes the installation guide.

Option 2: Base Kit and One Binding Manual

A base kit consists of the following:

- *DEC GKS User Manual*
- *Device Specifics Reference Manual for DEC GKS and DEC PHIGS*

The base kit also includes the installation guide.

You can select one of four base kits that includes the language binding of your choice:

- *DEC GKS GKS\$ Binding Reference Manual*
- *DEC GKS GKS3D\$ Binding Reference Manual*
- *DEC GKS C Binding Reference Manual*
- *DEC GKS FORTRAN Binding Reference Manual*

Option 3: Individual Manuals

You can select any of the following manuals individually:

- *DEC GKS GKS\$ Binding Reference Manual*
- *DEC GKS GKS3D\$ Binding Reference Manual*
- *DEC GKS C Binding Reference Manual*
- *DEC GKS FORTRAN Binding Reference Manual*
- *Device Specifics Reference Manual for DEC GKS and DEC PHIGS*
- *Building a Device Handler System for DEC GKS and DEC PHIGS*

Software Product Description

PRODUCT NAME: DEC GKS for VMS, Version 4.2

SPD 26.20.10

DESCRIPTION

DEC GKS (Graphical Kernel System) for VMS provides the application programmer with a single interface to a variety of graphic devices. DEC GKS for VMS is a development tool that application programmers can use to produce computer generated pictures. DEC GKS for VMS is a solid base for portable, device-independent two-dimensional graphics application development.

DEC GKS for VMS is a subroutine library packaged as a set of VMS shareable images, which implements the ISO (ISO 7942) and ANSI (ANSI X3.124-1985) GKS standard for two-dimensional (2D) device-independent graphics. DEC GKS for VMS conforms to level 2c of the GKS standard which provides full output capabilities, including workstation independent segment storage (level 2), and full input capabilities (synchronous and asynchronous input (level c)). DEC GKS for VMS supports DECwindows.

Features

Viewing Operations

DEC GKS for VMS allows the user to define the working coordinate system (world coordinates). World coordinates can have any scale. For example, one application might have a maximum range from 0 to 1000.0 while another application might limit the range from 0.01 to 0.1.

The user can also control multiple simultaneous views of the same picture on separate display surfaces, as well as the position of the picture on the surface. For example, one application program can display a map of the United States on a VT340 and at the same time display an enlarged section of the map (for example, the New England states) on an LVP16 Pen Plotter.

GKS Metafile

DEC GKS for VMS provides an interface to sequential files, the ISO and ANSI suggested GKS Metafile (GKSM) for filing graphical information. The metafiles can be used for the following purposes:

- Storing graphical information in a device-independent format
- Transporting graphical information between systems with compatible versions of GKS
- Transporting graphical information from one DEC GKS for VMS application to another
- Storing accompanying nongraphical information

Computer Graphics Metafile (CGM) Output

DEC GKS for VMS provides support for storing information using the Computer Graphics Metafile (CGM). CGM is an approved ANSI standard format (ANSI X3.122-1986). DEC GKS for VMS supports CGM output for the following formats:

Clear Text Encoding — Graphical output data stored in the clear text format is easily created, viewed, and modified using a common text editor. It is also a suitable format for transferring graphical output data through networks that only support the transfer of a text file.

Character Encoding — Graphical output data is typically stored in the character format for minimal file size. Data stored in this format is particularly suitable for transfer through networks that cannot support binary transfers.

Binary Encoding — Graphical output data stored in binary format is very compact and the fastest to read and write. However, it is the least suitable for transmission over communication lines as all 8 bits in each byte are meaningful.

DDIF Output

DEC GKS for VMS provides support for storing two-dimensional views of three-dimensional objects encoded in Digital's Document Interchange Format (DDIF). Views stored in DDIF can be processed by applications that conform to Digital's Compound Document Architecture.

DECwindows

DEC GKS for VMS provides support for VMS DECwindows and VMS DECwindows Motif®.

Escape Feature

DEC GKS for VMS provides an escape mechanism that allows the application programmer to access device capabilities not defined in the GKS standard. For example, an ESCAPE function is defined that activates the hard-copy feature of a VT125 raster graphics terminal.

Character Sets

DEC GKS for VMS provides a series of stroke precision character fonts. These character fonts were originally digitized by Dr. Allen V. Hershey of the Naval Surface Weapons Laboratory and supplied to Digital by the National Bureau of Standards.

DEC GKS for VMS also provides text support for the native character set(s) of the supported graphical devices.

Language Binding

DEC GKS for VMS functions can be accessed by three sets of subroutine calls.

- An interface that conforms to the ANSI standard (ANSI X3.124.1-1985) and ISO (DIS 8651/1) FORTRAN binding to GKS.
- A C binding interface that conforms to the proposed C language binding standard.

The FORTRAN and C binding interfaces allow users to transport GKS applications that are written in FORTRAN or C across heterogeneous operating systems with conforming implementations of the FORTRAN or C bindings and GKS. Calls to the C language binding cannot be mixed with calls to the other language bindings in the same application.

- A VMS-specific interface that follows the standard VMS calling conventions and is callable by many different languages.

Graphic Handlers

DEC GKS for VMS provides support for a wide variety of Digital and non-Digital graphics devices. In addition, DEC GKS for VMS provides the information necessary for users to develop their own graphic device handlers for devices that DEC GKS for VMS does not support. Device handlers can be developed in VAX FORTRAN, VAX C, and VAX Pascal.

Output Functions

<i>Segments</i>	DEC GKS for VMS provides a set of functions for the creation, manipulation, and deletion of stored groups of output primitives called segments.
<i>Polyline</i>	Draws one or more connected line segments.
<i>Polymarker</i>	Draws one or more symbols that mark significant points in a picture.
<i>Text</i>	Draws any character string. Characters can be displayed in a variety of fonts and orientations.
<i>Fill Area</i>	Draws a polygonal area, which can be hollow or filled with a uniform color, a pattern, or a hatch style.
<i>Cell Array</i>	Draws a rectangular image, specified by a two-dimensional array of picture elements.
<i>Generalized Drawing Primitive (GDP)</i>	Allows access to drawing capabilities of graphics devices that are not used by the functions listed above. Circles and arcs are two GDPs commonly used.

Attributes

Each output function has an associated set of attributes that control the appearance of the output. Attributes can be defined in groups, called bundles, or individually. Examples of attributes for polyline are:

<i>Line Type</i>	Controls the style of a line. For example, lines can be dotted or dashed.
<i>Line Width</i>	Controls the width of the line.
<i>Line Color</i>	Color selection is performed by selecting an index into a table containing the red, green, and blue intensities required to define a particular color on color devices.

Input Functions

DEC GKS for VMS supports synchronous and asynchronous input. The following six classes of input data are supported.

<i>Locator</i>	Returns a point within the user's world coordinate system
<i>Stroke</i>	Returns a series of points within the user's world coordinate system
<i>Valuator</i>	Returns a single real value within a specified range
<i>Choice</i>	Returns a single non-negative integer within a specified range
<i>String</i>	Returns a string of characters
<i>Pick</i>	Returns a segment name and pick identifier

Control Functions

DEC GKS for VMS provides control functions for management of the picture process, including GKS initialization and termination, the opening and closing of logical graphical devices, and the control of the display surface.

Inquiry Functions

DEC GKS for VMS provides a complete set of inquiry functions that aid in developing modular, device-independent programs.

DEC GKS for VMS Run-Time Only License

Since DEC GKS for VMS is a graphics application development tool, Digital provides a Run-Time Only License for running graphics applications that were developed using DEC GKS for VMS graphics. This license is offered at a substantially reduced cost per CPU. The DEC GKS for VMS Run-Time Only License does not allow the user to create new applications, but rather allows execution of applications that were previously developed on a CPU where the full GKS product had been installed under a Single-Use License Option.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation, or VAXserver configuration as specified in the System Support Addendum (SSA 26.20.10-x).

SOFTWARE REQUIREMENTS

For Systems Using Terminals (No DECwindows Interface):

VMS Operating System

For Workstations Running VWS:

VMS Operating System
VMS Workstation Software

For Workstations Running DECwindows:

VMS Operating System (and necessary components of VMS DECwindows)

or

VMS Operating System (and necessary components of VMS DECwindows Motif)

* Refer to the System Support Addendum (SSA 26.20.10-x) for availability and required versions of prerequisite/optional software and for information regarding components of VMS DECwindows.

ORDERING INFORMATION*Development:*

Software Licenses: QL-810A*^{**}
Software Media: QA-810A*^{**}
Software Documentation: QA-810AA-GZ
Software Product Services: QT-810A*^{**}

Run-Time Only:

Software Licenses: QL-811A*^{**}
Software Media: QA-811A*^{**}
Software Product Services: QT-811A*^{**}

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

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

License Management Facility Support:

This layered product supports the VMS License Management Facility.

License units for this product are allocated on an Unlimited System Use plus Personal Use and Concurrent Use basis.

This layered product offers a Personal Use license. Each Personal Use license allows one identified individual to use the layered product.

This layered product offers a Concurrent Use license. Each Concurrent Use license allows any one individual at a time to use the layered product.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the *License Management Facility* manual of the VMS Operating System documentation set.

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

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Software Product Description

PRODUCT NAME: DEC GKS for VMS, Version 4.2

SSA 26.20.10-A

HARDWARE REQUIREMENTS

Processors Supported:

VAX: VAX 4000 Model 200,
VAX 4000 Model 300

VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series,
VAX 6000 Model 500 Series

VAX 8200, VAX 8250, VAX 8300, VAX 8350,
VAX 8500, VAX 8530, VAX 8550, VAX 8600,
VAX 8650, VAX 8700, VAX 8800, VAX 8810,
VAX 8820, VAX 8830, VAX 8840

VAX 9000 Model 210,
VAX 9000 Model 400 Series

VAXft 3000 Model 310

VAX-11/750, VAX-11/780, VAX-11/785

MicroVAX: MicroVAX II, MicroVAX 2000,
MicroVAX 3100, MicroVAX 3300,
MicroVAX 3400, MicroVAX 3500,
MicroVAX 3600, MicroVAX 3800,
MicroVAX 3900

VAXstation: VAXstation II, VAXstation 2000,
VAXstation 3100 Series, VAXstation 3200,
VAXstation 3500, VAXstation 3520,
VAXstation 3540

VAXserver: VAXserver 3100, VAXserver 3300,
VAXserver 3400, VAXserver 3500,
VAXserver 3600, VAXserver 3602,
VAXserver 3800, VAXserver 3900

VAXserver 4000 Model 200,
VAXserver 4000 Model 300

VAXserver 6000 Model 210,
VAXserver 6000 Model 220,
VAXserver 6000 Model 310,
VAXserver 6000 Model 320,
VAXserver 6000 Model 410,
VAXserver 6000 Model 420,
VAXserver 6000 Model 510,
VAXserver 6000 Model 520

Processors Not Supported:

MicroVAX I, VAXstation I, VAX-11/725, VAX-11/730,
VAX-11/782, VAXstation 8000

Processor Restriction:

A TK50 Tape Drive is required for standalone MicroVAX
2000 and VAXstation 2000 systems.

Disk Space Requirements (Block Cluster Size = 1):

DEC GKS:

Disk space required for installation: 11,200 blocks
(5.73 Mbytes)

Disk space required for use (permanent): 10,500 blocks
(5.38 Mbytes)

DEC GKS Run-Time Only:

Disk space required for installation: 6,500 blocks
(3.33 Mbytes)

Disk space required for use (permanent): 5,900 blocks
(3.02 Mbytes)

These block counts refer to the disk space required on
the system disk. The sizes are approximate; actual
sizes may vary depending on the user's system envi-
ronment, configuration, and software options selected.

Memory Requirements for DECwindows Support:

The minimum supported memory for this application running in a standalone DECwindows environment with both the client and server executing on that same system is 5 Mbytes.

OPTIONAL HARDWARE

DEC GKS supports a variety of interactive and hardcopy devices. At least one of these devices is required to display graphics output.

Workstations:

- Any supported Digital workstation (refer to the *Processors Supported* section of this SSA)

DECwindows Clients:

- Any supported Digital workstation (refer to the *Processors Supported* section of this SSA)
- DECterminal VT1200
- DECterminal VT1300

Terminals:

- VT125 with black and white or optional color monitor (ReGIS)
- VT240 with black and white monitor (ReGIS, Tek® 4014)
- VT241 with color monitor (ReGIS, Tek 4014)
- VT330 with black and white monitor
- VT340 with color monitor
- TEKTRONIX® 4014 with enhanced graphics module (Option 34) or equivalent

Note: The emulation of a TEKTRONIX 4014 is not supported on any hardware.

- TEKTRONIX 4107 terminal
- TEKTRONIX 4207 terminal
- TEKTRONIX 4128 terminal
- TEKTRONIX 4129 terminal

Compatible Sixel Devices:

- Digital LN03 PLUS laser printer
- LN03 with LN03S-UA upgrade kit
- Digital A34 with graphics option
- Digital LA100
- Digital LA75
- Digital LA50 (restricted to a 2:1 aspect ratio)
- Digital LA210

- Digital LA324 MultiPrinter
- Digital DEClaser 2100, 2200
- Digital DEClaser 1100
- TEKTRONIX 4611 hardcopy unit when connected to the TEKTRONIX 4014 computer display terminal

Compatible Hewlett-Packard® Graphics Language (HPGL®) Devices:

- Digital LVP16 pen plotter
- HP7475 Hewlett-Packard pen plotter
- HP7550 Hewlett-Packard pen plotter
- HP7580 Hewlett-Packard pen plotter
- HP7585 Hewlett-Packard pen plotter

Film Recorders:

- LASERGRAPHICS MPS-2000™ film recorder

Ink Jet Plotters:

- Digital LJ250 Companion color printer
- Digital LCG01 color ink jet plotter (ReGIS)

Compatible PostScript® Devices:

- Apple® LaserWriter®
- Apple LaserWriter +
- Digital LPS20 laser printer
- Digital LPS40 laser printer
- Digital LN03R ScriptPrinter laser printer
- Digital DEClaser 2150, 2250
- Digital DEClaser 1150

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on an valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description and System Support Addendum detail any special hardware required by this product.

- * V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

For Systems Using Terminals (No DECwindows Interface):

VMS Operating System V5.4

For Workstations Running VMS:

VMS Operating System V5.4
VMS Workstation Software V4.3

For Workstations Running DECwindows:

VMS Operating System V5.4 (and necessary components of VMS DECwindows)

or

VMS Operating System V5.4 (and necessary components of VMS DECwindows Motif®)

This product may run in either of the following ways:

- Standalone execution — Running the X11 display server and the client application on the same machines.
- Remote Execution — Running the X11 display server and the client application on different machines.

VMS DECwindows is a part of the VMS Operating System but must be installed separately. Installation of the VMS DECwindows gives the user the option to install any of the following three components:

- VMS DECwindows Compute Server (Base kit; includes runtime support)
- VMS DECwindows Device Support
- VMS DECwindows Programming Support

For standalone execution, the following DECwindows components must be installed on the machine:

- VMS DECwindows Compute Server
- VMS DECwindows Device Support

For remote execution, the following DECwindows components must be installed on the machine:

Server Machine

- VMS DECwindows Compute Server
- VMS DECwindows Device Support

Client Machine

- VMS DECwindows Compute Server
- DECwindows Programming Support

For the development of application programs that use DEC GKS under VMS, one of the DEC GKS supported languages is also required.

VMS Tailoring

For VMS V5.x systems, the following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Network Support
- Programming Support

OPTIONAL SOFTWARE

- VAX Ada V2.2
- VAX BASIC V3.4
- VAX BLISS-32 Implementation Language V4.6
- VAX C V3.2
- VAX COBOL V4.4
- VAX FORTRAN V5.6
- VAX Pascal V4.3
- VAX PL/I V3.4

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

9-track 1600 BPI Magtape (PE), TK50 Streaming Tape

This product is also available as part of the VMS Consolidated Software Distribution on CDROM.

ORDERING INFORMATION**Development:**

Software Licenses: QL-810A*^{-**}
Software Media: QA-810A*^{-**}
Software Documentation: QA-810AA-GZ
Software Product Services: QT-810A*^{-**}

Run-Time Only:

Software Licenses: QL-811A*^{-**}
Software Media: QA-811A*^{-**}
Software Product Services: QT-811A*^{-**}

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

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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Software Warranty Addendum

DIGITAL WARRANTED SOFTWARE PRODUCTS

SPD 01.10.00

The software product is warranted to conform to the Software Product Description (SPD). This means that DIGITAL will remedy any nonconformance when it is reported to DIGITAL by the customer during the warranty period.

The warranty period is one year. It begins when the software is installed or thirty days after delivery to the end user, whichever occurs first and expires one year later. All warranty related support for this software will end one year after release of the subsequent version.

Warranty is provided in the country of purchase. DIGITAL will provide a service location which will accept reporting (in a format prescribed by DIGITAL) of a nonconformance problem caused when using the licensed software under normal conditions as defined by the SPD. DIGITAL will remedy a nonconformance problem in the current unaltered release of the licensed software by issuing correction information such as: correction documentation, corrected code, or notice of availability of corrected code; or a restriction or a bypass. The customer will be responsible for the preparation and submission of the problem report to the service location.

WARRANTY EXCLUSION

DIGITAL DOES NOT WARRANT THAT THE SOFTWARE LICENSED TO CUSTOMER SHALL BE ERROR FREE. THAT THE SOFTWARE SHALL OPERATE WITH ANY HARDWARE AND SOFTWARE OTHER THAN AS SPECIFIED IN THIS SPD, THAT THE SOFTWARE SHALL SATISFY CUSTOMER'S OWN SPECIFIC REQUIREMENTS, OR THAT COPIES OF THE SOFTWARE OTHER THAN THOSE PROVIDED OR AUTHORIZED BY DIGITAL SHALL CONFORM TO THE SPD.

DIGITAL MAKES NO WARRANTIES WITH RESPECT TO THE FITNESS AND OPERABILITY OF MODIFICATIONS NOT MADE BY DIGITAL.

IF THE SOFTWARE FAILS TO FUNCTION FOR REASONS STATED ABOVE, THE CUSTOMER'S WARRANTY WILL BE INVALIDATED AND ALL SERVICE CALLS WILL BE BILLABLE AT THE PREVAILING PER CALL RATES.

This Software Warranty Addendum is effective for licensed software products ordered in the United States after October 1988 and supersedes all prior versions.

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