Software Product Description

PRODUCT NAME: DECwrite/British for VMS, Version 1.1 **SPD 25.R7.01**

DESCRIPTION

DECwrite for VMS is a compound document processing application that allows VMS users to create and format documents which contain text, graphics, images and supported application data. DECwrite automates the steps of document production from text entry, formatting and graphics creation to printing.

DECwrite is compliant with Digital's Compound Document Architecture (CDA) and, therefore, can take advantage of the CDA converter architecture and system level support. This system level support includes the ability to mail compound documents across the enterprise.

DECwrite runs under VMS DECwindows (included with VMS Operating System) and utilizes a graphical What-You-See-Is-What-You-Get (WYSIWYG) interface.

The WYSIWYG interface displays the document on the screen as it will print. DECwrite adheres to the DECwindows Style Guide and has the same look and feel as other DECwindows applications.

DECwrite combines word processing, publishing, graphics creation, data driven charting, image integration and live links to supported application data. A DECwrite user can create sophisticated compound documents for distribution throughout the enterprise.

Features

User Interface

DECwrite presents functions through a graphical user interface. Functions are represented through straightforward menu selections and icons. DECwrite features a menu bar with pull-down menus at the top of the document window. These menus contain the top-level items such as File, Edit, Search, Type, Elements, Style, Draw, Links, Customize, and Help. The combination of pull-down menus, keyboard sequences, and dialogue boxes contain all of the functions needed to utilize DECwrite. The menus also display the keyboard equivalents provided to perform these functions from the keyboard.

In addition to the pull-down menus, DECwrite provides four context sensitive pop-up menus. These menus pop up near the pointer position for easy access. The pop-up menus include the most frequently used editing features for text and graphics, as well as the entries for the most commonly used element styles and objects.

DECwrite provides language switching which allows users to select a language from the DECwindows Session Manager to determine the user interface language for DECwrite.

The user interface also features the following:

- A vertical and horizontal scroll bar
- Rulers with tracking and grids for easy placement of text blocks and objects
- Snap to ruler on or off
- Status display boxes which display information such as the current page number, first and last page, current style, text block connections, and graphic object size.

Help

DECwrite features context sensitive help on many functions. The Help provides detailed information on how to utilize DECwrite features and aids the user in becoming proficient in creating DECwrite documents. In addition, an online demonstration which aids the user in learning DECwrite concepts can be accessed from Help.

Editor

DECwrite includes a full word processing editor with functions such as select, cut, copy, paste, undo, redo and navigation. DECwrite features sophisticated search and replace capabilities including the ability to search for returns, special characters and arbitrary white space.

Advanced editorial features such as redlining, change bars, and change pages make DECwrite an appropriate application for documentation and publication groups.

DECwrite includes Houghton Mifflin's high-quality hyphenation routines and a British lexicon (included with the British version only).

DECwrite allows the user to create exception dictionaries for words that would not commonly appear in a standard dictionary. The exception dictionaries can be kept locally or used globally in a DECwrite workgroup. Hyphenation can also be controlled with discretionary hyphens.

DECwrite supports multiple language hyphenation. For example, French and German may be used within the same document. Supported language hyphenation includes: Dutch, English (American and British), French, Spanish, Italian, German, Swedish, Norwegian, Portuguese, Finnish and Danish.

DECwrite allows users to verify and correct spelling in multiple languages. For example, when French and German are used within a document, the spelling of the words in those languages is checked if the French and German optional lexicons are added to the system. Optional language lexicons are available. Refer to the System Support Addendum (SSA 25.R7.01-A) for further information.

In addition, the user may verify and correct word usage and access an electronic thesaurus for American English. [1]

DECwrite emulates several keyboard styles including GOLD KEY for WPS-PLUS compatibility, WordPerfect™ and Microsoft® Word; EVE, EDT, and EMACS for technical users and a DECwrite specific keyboard interface.

LiveLink

DECwrite includes a LiveLink capability which allows the user to link a variety of supported applications and their data to DECwrite documents. Data that is linked to DECwrite becomes part of the DECwrite document and may be automatically updated when the document is next edited. Conversely, updates can be controlled by the user so that they occur only when desired. Links to applications can be modified or deleted by the user at any time.

DECwrite can link to data wherever it exists in the network as long as the user has privileges to access the data. Links can be specified with several file location types. These include: with the document, in a private library, in a network library, and in a system library. This file type location tells DECwrite where to look for the linked data and how the compound document should be packaged for mailing.

Applications which can be LiveLinked to DECwrite include:

- DECdecision (refer to the *OPTIONAL SOFTWARE* section in the System Support Addendum)
- DECview3D (refer to the *OPTIONAL SOFTWARE* section in the System Support Addendum)
- DECpaint (included with DECwindows)
- DECchart (included with DECwrite and DECdecision)
- DECwrite Equation Editor (included with DECwrite)

Links to DECdecision

DECdecision is a VMS workstation-based decision support application that runs under VMS DECwindows and is comprised of four major software components:

- ACCESS, for ad-hoc queries
- CALC, for analyzing financial and business data
- DECchart, for generating business graphs
- BUILDER, for recording and automating repetitive tasks across applications

DECwrite can live link to any of these components to combine tables, charts, text, and graphics into one document.

Links to Data

In addition, it is possible to link to other DECwrite documents, to DDIF pictures and images, or to final form data such as ENCAPSULATED PostScript® files.

Converters

DECwrite utilizes the CDA converter architecture to interchange data with other applications. The converter architecture assures that a variety of formats can be converted to Digital's Document Interchange Format (DDIF) which is DECwrite's file format.

The converters included with DECwrite include a two-way DX converter which allows WPS-PLUS documents to be brought into and written out of DECwrite, and a one way smart text import function for converting ASCII text into DDIF.

DECwrite also includes WK1, DIF, CALC$GRD, and ASCII Tabular converters allowing data from these formats to be imported into DECchart.

Additional converters are available through the CDA Converter Library for VMS. Refer to the System Support Addendum (SSA 25.R7.01-A) for further information).

Export to Bookreader

DECwrite provides the ability for users to export their DECwrite documents into Bookreader format to allow creation of online documentation.

Text Styles

DECwrite allows users to create text styles for the following types of elements:

- Paragraphs
- Titles
- Lists
- Footnotes
- Table of contents
- Indexes

Users have full formatting control through the use of styles. By modifying the style attributes of text elements, the user can create other styles such as abstracts and subheads.

Users may copy and then modify the default styles supplied with DECwrite, or they may create new styles of their own. These user-defined styles are linked to documents and may be used in any number of documents. In addition, style files may be shared among users.

This method of applying styles to elements allows the document content to remain separate from the document format. The user has total control over document appearance. Style information is entered into fill-in-the-blank style sheets. These style sheets allow a user to change point sizes, fonts, leading, justification modes and the other text style attributes of elements.

Document appearance is automatically modified when the user changes the definition of a style. A user can give an element a new style at any time. For example, a user can change all main heads into subheads by simply applying a subhead style. Styles may be changed globally which makes DECwrite an appropriate product for long documents.

When local changes are desired, such as bolding a word, the user may utilize the bold key, the type menu, or the text attributes box which lists a variety of rendition attributes such as fonts, pointsizes, slant, etc. This gives the user flexibility in making quick one-time changes versus global style changes.

Page Composition and Pagination

DECwrite provides a variety of layout functions for text, pages, and documents. Text styles are previously discussed separately. (Refer to *Text Styles*.) Pages are formatted through page styles. Page styles can be defined for single or double-sided pages. Any number of page styles can be used in a document for maximum layout flexibility. Items such as running headers and footers, logos, and page or column rules which appear repetitively throughout the document can be stored as part of page styles, and are automatically placed on each page.

A user may choose to create the page layouts of a document through a dialogue box or to interactively create page layouts for specific pages. DECwrite automatically links text flows from column to column and page to page, or a user may connect text flows in a non-contiguous fashion for documents such as newsletters.

The formatting capabilities provided with DECwrite include:

- Automatic pagination with auto page numbering
- Running headers and footers which may contain graphics or text
- Up to 100 columns per page with the ability to freely mix a variable number of columns per page, e.g., two columns at the top of a page and three at the bottom
- Hyphenation according to dictionary or algorithm
- Alignment (justified, ragged-right, ragged-left, or centered)
- Vertical justification
- Widow and orphan control
- Manual kerning
- Font scaling from 2-300 point type in .01 point increments
- Support for installation of additional fonts
- Support for the ISO-Latin 1 character set
- Macros for user-defined functions
- Hierarchical lists and sublists with automatic "numbering" (numeric, alphabetic or characters) and user-controlled indents

- Automatic numbering of sections, chapters, headings, paragraphs, lists, sublists, footnotes, and appendices
- Automatic cross-referencing
- Numeric references for footnotes. Superscripting of footnote references automatically generated
- Sidenotes
- Redlining, change bars and change pages
- Spell Corrector, Usage Alert, (American English only) and Electronic Thesaurus (American English only)
- Generation of table of contents and index (up to four levels for entries)
- Right, left, center and decimal tabs
- Equation editor
- LiveLinks to other supported applications
- Ability to mix portrait and landscape pages within a document

Link to Document

DECwrite includes a Link to Document function which allows the user to link files together to form a complete document. Chapters and pages are correctly numbered and a table of contents or index may be generated for the entire document. This feature allows users to work on different sections of a document and then easily combine those into a consecutively numbered document. This feature allows DECwrite to be utilized in a multi-author environment.

Graphics Editor

DECwrite includes an object-oriented graphics editor which contains the following objects - line, square, rectangle, circle, ellipse, arc, polygon and polyline. Objects may be filled with patterns or shaded, and their outlines may be solid, dotted, dashed, or a pattern. Objects may also be drawn in a wide variety of line weights. A freehand drawing tool is also provided.

Annotation arrows with filled, open, double or single arrowheads can be easily applied to drawings or on top of images. Text labels may be placed next to the arrows to identify parts of a drawing.

All graphic objects, including text labels, can be sized and scaled visually to a percentage or to exact dimensions. Alignment, duplication and space distribution features allow the user to easily create diagrams, schematics, flowcharts, etc.

Graphics can be placed anywhere within a document including above or below text, or in running headers and footers. Graphics may be placed in frames which can be anchored to various reference points in text or to a particular place on a page, including the margin.

DECchart

The DECchart component is an easy to use and easy to learn data charting application that allows users to create professional business graphics for their compound documents. Users need only specify two things, the data to be charted and the chart style desired. A chart is automatically generated. DECchart features include:

- Nine predefined chart types: Bar, Column, Line, Pie, Area, Scatter, Hi-Lo, Histogram, Combination
- Up to 45 chart style variations from which to choose
- Ability to modify predefined chart styles to create user defined chart styles
- Import data from: Lotus 1-2-3®, DECalc and DECalc-PLUS, DECgraph, DIF, and ASCII files, and tables from DECdecision
- Easy to use worksheet interface for data entry, modification and manipulation (cut, copy, and paste data in the worksheet)
- Automatic trend line generation for scatter charts
- Graphic annotation, overlay: text, lines, rectangles and arrowheads anywhere on a chart for emphasis and customization
- Color support, assigning color attributes to: axes, baseline, frame, grids, legend, tags, tick marks, column and bar fills and overlay objects.
- Modification of chart attributes including: axes, baseline, data values, frame, grids, legend, tags, tick marks, drop shadows, bar spacing and bar overlap
- Modification of text attributes, changing: font size, family, weight and slant
- File flexibility: saving data, chart style, chart overlay and color selections separately or save everything together
- Selectable fill patterns, line patterns, marker types and attributes
- Customization with user preferences
- Ability to move and resize overlay objects

Images and Graphic Formats

DECwrite can link to black and white, gray scale and color images. Images can be scanned in with the DECimage Scan Software and the MD-300 Scanner and TIFF images can be imported via an optional converter. Refer to the System Support Addendum (SSA 25.R7.01-A) for further information on the CDA Converter Library for VMS).

Image files created with DECwindows Paint can also be linked into DECwrite. Once images are in a DECwrite document they can be annotated, scaled or cropped.

Encapsulated PostScript files may be linked into DECwrite and if the Display PostScript™ extension to DECwindows is installed these graphics will be displayed on the screen.

Optional graphic converters are available in the CDA Converter Library for VMS (refer to the System Support Addendum for further information).

Document Styles

DECwrite includes thirteen predefined document styles; example, letter, manual, memo, Mil Spec, newsletter, price list, report, portrait slide, landscape slide, technical slide, technical journal and telephone directory. These document styles can be used as is, with other documents, or they can be easily modified by the user to suit any specifications.

High Quality Output

DECwrite provides high-quality output to Digital PostScript printers such as the ScriptPrinter (LN03R), the PrintServer 20, PrintServer 40, and the PrintServer 40 Plus.

DECchart can output to the PostScript printers listed above.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation or VAXserver configuration as specified in the System Support Addendum.

Display Devices:

DECwrite will run on any of the above processors, but requires either a workstation, a VT1200*, or an Intel 80286* or 80386* with PC DECwindows for display.

* Not recommended as replacements for workstation performance.

Refer to the System Support Addendum (SSA 25.R7.01-A) for supported hardware configurations.

SOFTWARE REQUIREMENTS *

VMS Operating System and (necessary components of VMS DECwindows)

* Refer to the System Support Addendum (SSA 25.R7.01-A) for availability and required versions of prerequisite/optional software.

ORDERING INFORMATION ***

Software Licenses: QL-VVFE9-PB
Software Media: QA-VVFEA-H*
Software Documentation: QA-VVFEA-GZ
Software Product Services: QT-VVFE*-**

* 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 a User/Activity basis.

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.

For more information about Digital's licensing terms and policies contact your local Digital office.

SOFTWARE PRODUCT SERVICES

A variety of service options are available for more information, please 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.

[1] Usage Alert, Electronic Thesaurus, International Hyphenators, and International CorrectSpell licensed from Houghton Mifflin Company. Copyright 1985, 1987, 1988 by Houghton Mifflin. German 1985, 1987 by Langenscheidt K.G. French in cooperation with Librairie Larousse. Italian 1988 by Nicola Zanichelli. All rights reserved. U.S. Pat. Nos. 4,580,241, 4,724,523 and 4,771,401. Canadian Pat. No. 1,203,916. Thesaurus U.S. Pat. No. 4,724,523. English based upon The American Heritage Dictionary. Thesaurus based upon Roget's II Thesaurus. Reproduction or disassembly of embodied computer programs or algorithms prohibited.

® Lotus 1-2-3 is a registered trademark of Lotus Development Corporation.

® PostScript is a registered trademark of Adobe Systems, Inc.

® Microsoft is a registered trademark of Microsoft Corporation.

® MS-DOS is a registered trademark of Microsoft Corporation.

™ Display PostScript is a trademark of Adobe Systems, Inc.

™ WordPerfect is a trademark of WordPerfect Corporation.

™ HPGL is a trademark of Hewlett-Packard Corporation.

™ The DIGITAL Logo, CDA, DECwrite, DECchart, DECdecision, DECwindows, DDIF, DX, EVE, EDT, GOLD KEY, LiveLink, LVP16, MicroVAX, VAX, VMS, VAXstation, VAXserver, PrintServer 20, PrintServer 40, PrintServer 40 Plus, LN03 and WPS-PLUS are trademarks of Digital Equipment Corporation.