

# Software Product Description

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**PRODUCT NAME: VAXmate Software for Standalone Use      SPD 55.69.02**  
**Version 2.0 (European)**

## **DESCRIPTION**

The Personal Computing Systems Architecture (PCSA) is an extension of DIGITAL's systems and networking architecture that merges the VMS and MS™-DOS environments. PCSA provides a framework for integrating personal computers into an organization's total information system so that different types of users can share information, large system resources and network services across the entire organization.

The PCSA family of software products includes:

- VAX/VMS Services for MS-DOS – Software that allows a VAX/VMS system to act as a file, print, and disk server to personal computers (Refer to SPD 30.60.xx.)
- DECnet/PCSA Client: PC – Required software for the personal computer to use the facilities provided by VAX/VMS Services for MS-DOS or VAXmate Services for MS-DOS (Refer to SPD 55.08.xx)
- DECnet/PCSA Client: VAXmate – Required software for VAXmates to use the facilities provided by VAX/VMS Services for MS-DOS or VAXmate Services for MS-DOS (Refer to SPD 55.11.xx.)
- VAXmate Services for MS-DOS – Software that allows a VAXmate with an expansion box to act as a dedicated server to personal computers (Refer to SPD 55.12.xx.)
- VAXmate Software for Standalone Use – Operating environment for non-networked VAXmates, described in this document.

The PCSA products are based on DECnet and the right to use VAX/VMS Services for MS-DOS is included in the DECnet-VAX license. Other DECnet-VAX facilities are described in SPD 25.03.xx.

The VAXmate is an industry-standard personal computer that can be used either standalone or connected to a network. The VAXmate hardware, with the addition of VAXmate Software for Standalone Use, provides the user with the ability to use industry-standard applications in a non-networked environment.

VAXmate Software for Standalone Use provides:

- Operating system
- User interface
- Terminal emulation

**digital**  
software

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- On-line user information
- Printer support

No network software is provided with VAXmate Software for Standalone Use.

### **Operating System**

The MS-DOS Operating System, Version 3.30, provides an environment that enables the user to perform operations such as program execution, file retrieval, and editing, as well as providing storage capabilities, disk utilities, and various other system-related operations. Most MS-DOS utilities provide the user with assistance on command formats.

The following diskettes can be used:

- RX33 (READ/WRITE/FORMAT)
- RX50 (READ/WRITE)
- Industry-standard high density (96 TPI, 1.2M byte) (READ/WRITE/FORMAT)
- Industry-standard low density (48 TPI, 180/360K byte) (READ only)

Key features of the operating system are:

- Loadable text and graphic fonts
- Loadable country-specific data tables and keyboard drivers:
  - ISO – International Standards Organization character set
  - MCS – DEC Multinational Character Set
  - STD – IBM® Extended character set
  - ST2 – IBM Norway/Denmark Extended character set
  - XX7 – Indicates a 7-bit National Character Replacement set of country XX
    - US – United States
    - DE – German
    - SF – Swiss/French
    - DK – Denmark
    - SE – Sweden
    - UK – United Kingdom
    - IT – Italy
    - SD – Swiss/German
    - NO – Norway
    - CH – Swiss/German/French
    - FR – France
    - ES – Spain
    - CA – Canada

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FI – Finland

— TCS – Technical Character Set

- The ability to use the VAXmate's RAM memory as a pseudo disk
- The ability to set and reset all file attributes
- Backup and restore, including to subdirectories
- Graphics support for LA75, LA50, LA210, LJ250, LN03-PLUS, IBM Graphics Printer, IBM PC Color Printer, and IBM Proprinter

### User Interface

In addition to a MS-DOS command line interface, VAXmate Software for Standalone Use provides MS-Windows, Version 1.03.

MS-Windows is a graphical extension of the MS-DOS Operating System that provides the user with a visual interface to the operating system by means of pull-down menus, dialog boxes and icons instead of the traditional command structure used by MS-DOS.

MS-Windows can split the display screen into multiple windows and allow several programs to appear on the screen at the same time. The user can switch between windows and transfer data between applications.

The user can also invoke the MS-DOS Command Processor through this interface. The command processor allows the use of the traditional MS-DOS command structure.

Features that are available when running applications that have been designed and written to use MS-Windows' facilities are:

- Limited multi-tasking
- Multiple windows allowing for data transfer between windows
- Support of CGA (and EGA, with third-party graphics card) graphic resolution
- A mouse as a virtual pointer
- A displayable "clipboard" area to temporarily store information that is being copied or moved
- Moving, sizing or zooming of windows on the screen

Several MS-Windows applications are included: Calculator, Notepad, Clock, Paint, Cardfile, Calendar and Control Panel.

Drivers are included to support the following DIGITAL devices:

- VSXXX-AA Mouse
- LK250 Keyboard
- LA75 Printer (serial), in DEC mode and in emulation of the IBM Proprinter
- LN03 PLUS Printer, in DEC mode and in emulation of the IBM Proprinter (with ISO/PC cartridge).  
The user may select up to two of the following font cartridges supported within MS-Windows:
  - ISO/PC
  - C.G. Times 8pt, 10pt, 12pt
  - C.G. Times 14pt, 18pt

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- C.G. Times 24pt
- C.G. Triumvirate 8pt, 10pt, 12pt
- C.G. Triumvirate 14pt, 18pt
- C.G. Triumvirate 24pt
- I.T.C. Souvenir 8pt, 10pt, 12pt
- OCR-A, OCR-B
- LN03R Printer
- LA50 Printer
- LA210 Printer, in DEC mode and in emulation of the IBM Proprinter

In addition, the drivers are provided to support the following IBM printers:

- IBM Graphics Printer
- IBM Proprinter

Several industry-standard hardware drivers are supplied for use with other non-DIGITAL products. These drivers are provided on an "AS IS" basis without any warranty of any kind, either express or implied.

These unsupported drivers allow the use of the following products:

- Microsoft Mouse
- Mouse Systems Mouse
- Logitech Serial Mouse
- Kraft Joystick Mouse
- VisiOn Mouse
- FTG Data Systems Light Pen and Single Pixel Board
- The Lite-pen Company Light Pen
- Hercules Graphics Card with monochrome display
- Intel™ AboveBoard/AT
- C-Itoh 8510 printer
- Epson® FX-80 printer
- Epson LQ-1500 printer
- Epson MX-80 Graftrax printer
- HP® LaserJet printer
- HP LaserJet+ printer
- HP ThinkJet (2225 C-D) printer
- HP 7470A printer
- HP 7475A printer
- HP 7550A printer
- NEC P2/P3 printer

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- NEC 3550 printer
- Okidata 92/93 (IBM) printer
- Okidata 92/93 (STD) printer
- Okidata 192/193 (IBM) printer
- Okidata 192/193 (STD) printer
- POSTSCRIPT™/Laserwriter
- Star SG-10 printer
- TI® 850 printer
- TI 855 printer
- Toshiba P351
- Xerox® 4020

Program Information Files (PIFs) are supplied for MS-DOS commands and SETHOST. These PIFs are supported by DIGITAL.

PIFs are also supplied for several applications written by third parties. These PIFs are provided on an "AS IS" basis without warranty of any kind, either express or implied.

### **Terminal Emulation**

VAXmate Software for Standalone Use includes terminal emulation software that allows the user to establish terminal sessions with a host computer such as a VAX. Terminal sessions can be established using the VAXmate's serial communications port or the optional integral modem.

Two terminal emulations are provided for VAXmate:

- VT220 terminal emulation, for use within the MS-Windows environment. Full modem control and replaceable character sets (DRCS) are not supported.
- SETHOST, previously known as VT240 terminal emulator, for use from the MS-Windows environment or at the MS-DOS command line. When the emulator is invoked through the MS-Windows, it will take control of the total screen, keyboard, and communications ports. SETHOST supports ReGIS, but does not support the Tektronix 4010 and 4014 modes of operation. Full modem control and replaceable character sets are supported.

Features of the MS-Windows VT220 terminal emulator are:

- Support for serial terminal communication
- Support for the MS-Windows Clipboard to cut and paste information
- Ability to log characters received from the host into a file
- Ability to send characters to the host from a file instead of from the keyboard
- DIGITAL multinational and ISO multilingual character sets and compose sequences (Refer to Operating Systems section above for list of multinational character sets provided)
- Setup feature allows selection and saving of terminal characteristics
- Printing to a DIGITAL printer attached to the VAXmate; printing may be a screen at a time or a toggle-like function may be used to print everything from the screen until the toggle is switched off.

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Features of SETHOST (VT240 terminal emulator) are:

- Ability to log characters received from the host into a file
- Ability to send characters to the host from a file instead of from the keyboard
- Support for applications that display information on a VT240, including ReGIS support
- Two video modes: Text and ReGIS Graphics and a fast text-only video mode.
- Supports full modem control
- DIGITAL multinational and ISO multilingual character sets and compose sequences (Refer to Operating System section for a list of multinational character sets provided)
- Setup feature allows selection and saving of terminal characteristics
- Printing to a DIGITAL printer attached to the VAXmate; printing may be a screen at a time or a toggle-like function may be used to print everything from the screen until the toggle is switched off.

Both the MS-Windows VT220 and SETHOST provide scripting facilities. The script processing language allows the automation of frequently executed functions. For example, a script can be written to automatically log a user in to a computer or to dial in to a computer. Scripts can be written to perform a task and then exit the terminal emulator, without user intervention.

### **On-Line User Information**

The On-Line User Information System provides information about how to use the VAXmate system in an easy-to-use format with quick access to specific topics. It contains comprehensive user documentation and tutorials on how to use the system. The Information System runs as an MS-Windows application and uses standard MS-Windows user interface conventions.

Features of the On-Line User Information System are:

- Topic selection from menus, from a comprehensive topics list, or by typing in index terms
- Ability to maintain multiple bookmarks at topics of the user's choice
- Cross-references to related information
- Ability to return to a preceding topic, or to the main menu, in a single step
- Ability to copy material from the information base to the MS-Windows clipboard or to a printer

### **Printer Support**

With MS-Windows or MS-DOS, users can print files to a local printer (a printer attached directly to the VAXmate). Note that support is provided within MS-Windows for fonts for the LN03 PLUS (Refer to User Interface section for a list of supported fonts) and the LN03R; font support at the MS-DOS command line level is application-dependent.

Supported local printers, from MS-Windows and from MS-DOS command line, are:

- LN03-PLUS
- LN03
- LA75, in DEC mode and in emulation of the IBM Proprinter
- LA50
- LN03R
- LA210, in DEC mode and in emulation of the IBM Proprinter

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- LJ250 (LJ250 supported from MS-DOS command line only)
- IBM Proprinter
- IBM Graphics Printer

In addition, MS-Windows printer drivers are provided, without DIGITAL support, for several third-party printers. Refer to the User Interface section of this document for a list of unsupported MS-Windows printer drivers.

### **MINIMUM HARDWARE REQUIRED**

Any valid VAXmate configuration with one of the following hard disk drives:

- RCD31-FC (United States) or RCD31-FA (Non-US) 20M byte hard disk drive; expansion box with two industry-standard option slots
- RCD32-FC (United States) or RCD32-FA (Non-US) 42M byte hard disk drive; expansion box with two industry-standard option slots

### **OPTIONAL HARDWARE**

#### ***DIGITAL Printers***

- LA75
- LN03-PLUS
- LN03
- LA50
- LN03R
- LA210
- LJ250

The following hardware options from DIGITAL may be added to the VAXmate:

- PC50X-AA 2-Mbyte Memory Upgrade Option
- P287 Intel 80287 Math Coprocessor
- PC50X-MA Integral Modem Option (for North America)

### **PREREQUISITE SOFTWARE**

None

### **OPTIONAL SOFTWARE**

DECnet-VAXmate, Version 2.0

### **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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### INSTALLATION

This software product can be installed by the customer using the step-by-step documentation available for this product. Optionally, you can purchase DIGITAL Installation Services which provide for the installation of the software product by an experienced DIGITAL Software Specialist.

### ORDERING INFORMATION

Single-Use licensed software is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions, which provide, in part, that the software and any part thereof, may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of DIGITAL's copyright notice and any proprietary notices on the software) for use on same CPU.

You will need a separate license for each CPU on which you will be using the software product except as otherwise specified by DIGITAL.


VAXmate Software for Standalone Use is available only on RX33 diskettes.

QGWAA-A7 Single-Use License, binaries, documentation, warranty

### Software Product Services

A variety of service options are available. For more information on these and other services, please contact your local DIGITAL office.

All references to MS<sup>TM</sup>-Windows refer to DIGITAL's adaption of Microsoft Corporation's MS-Windows.

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