

# Software Product Description

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**PRODUCT NAME: WPS-11M, Version 3.0, PDP-11 Word Processing System**

**SPD 14.37.2**

## **DESCRIPTION:**

WPS-11M is a multiterminal word processing system for use with an RSX-11M system. It enables the RSX-11M system to have one or more WT78 or WS78 intelligent word processing terminals operating simultaneously. The word processing terminal operator can prepare reports, contracts, letters, sales lists and other documents easily, and store and retrieve them as disk files. The system can be configured in a variety of ways, to meet requirements for dedicated or hybrid operation. Any WT78 or WS78 terminal, with proper connection, can emulate a VT52 terminal on the RSX-11M system when not doing word processing.

WPS-11M runs as a user task under the RSX-11M operating system. It includes editing software that it down-line loads into the word processing terminals. This off-loads the host PDP-11 processor and enables responsive editing even when large numbers of terminals are active.

The editor's advanced human-engineering features have been designed for use by non-computer oriented personnel. A word processing terminal operator can make complex editing and format changes quickly and easily to documents stored on disk.

The operator can print documents on a high-speed line printer (LP0) connected to the central processor, or on a letter-quality printer or LA78 draft printer connected to the word processing terminal.

WPS-11M enables the user to:

- Prepare and edit reports which may require several drafts before final printing.
- Create contracts and other documents from a library of stored paragraphs.
- Print form letters using a stored form document and a list from which items, such as names and addresses, are automatically selected.

System features include:

- Responsive menu-driven operations
- Easy-to-learn commands
- Special editing keypad
- Full editing features:
  1. cut and paste blocks of text
  2. operations by grammatical entity (character, tab position, sentence, paragraph, page, section, line)

3. boilerplate insert from library file
  4. shorthand expressions
  5. swap transposed characters key
  6. delete and rubout by word or character
- Mailing list utilities
  - Form letter merge
  - Automatic routing of document printing at the available printer connected to the word processing terminal for better system throughput
  - Choice of either an LA78 for draft printing or an LQP for final document printing
  - Full control of tabs, margins, justification and pagination:
    1. automatic centering of text on a line
    2. discretionary pagination control
    3. semi-automatic hyphenation
    4. decimal and right-adjusted tabs
  - Underlined and overstruck (bold) printing
  - Superscript and subscript printing
  - Time and date stamp
  - Single sheet or continuous forms printing
  - Greater than 400 words per minute letter-quality printed output using a letter-quality printer or 1600 words per minute draft printing on LA78 draft printer
  - Selectable pitch and type fonts using a letter-quality printer
  - Dynamic floppy disk file allocation for WS78 terminals (which include a floppy disk system)

## **MINIMUM HARDWARE REQUIRED:**

Any valid RSX-11M operating system configuration which includes:

- a PDP-11/34, 11/40, 11/45, 11/60, or 11/70 processor
- battery backup for MOS memory
- at least 48K bytes of memory that can be dedicated to word processing
- an RK05, RK06, RK07, or RL01 disk drive or a 9-track 800 bpi tape drive for software distribution
- a DZ11-A (EIA asynchronous) 8-line terminal multiplexer that can be dedicated to word processing. For more than eight word processing terminals, any combination of DZ11-As or DZ11-Es may be used.

- at least one WT78 or WS78 word processing terminal
- 4K bytes of memory for each additional WT78 or WS78 terminal over one and up to the maximum number of word processing terminals supported
- 2K bytes of memory for each printer attached to a WT78 or WS78
- 8K bytes of memory for use of the PDP-11 line printer (LP0) for printing word processing documents

**OPTIONAL HARDWARE:**

Supports any mass storage, unit record or terminal device supported by the prerequisite software, with the addition of:

WT78 or WS78 word processing terminals, each with no more than one LQP78-PA letter-quality printer or LA78-P DECprinter.

The maximum number of terminals supported is as follows:

PDP-11/34 or 11/40 — up to 16 word processing terminals

PDP-11/45 or 11/60 — up to 32 word processing terminals

PDP-11/70 — up to 48 word processing terminals

**PREREQUISITE SOFTWARE:**

RSX-11M, Version 3.1 or later

**OPTIONAL SOFTWARE:**

None

**TRAINING CREDITS:**

None

**SUPPORT CATEGORY:**

A — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

**UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

**ORDERING INFORMATION:**

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, 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 the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

Standard options with no support services are only available after the purchase of one supported license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

The following key (D, E, Q, T, V) represents the distribution media for the product and must be specified at the end of the order number, e.g., QJ701-AE = binaries on RK05 disk.

D = 9-track Magnetic Tape

E = RK05 Disk Cartridge

Q = RL01 Disk Cartridge

T = RK06 Disk Cartridge

V = RK07 Disk Cartridge

*Standard Options*

QJ701 -A— Single-use license, binaries, documentation, support services (media: D, E, Q, T, V)

QJ701 -C— Single-use license, binaries, documentation, no support services (media: D, E, Q, T, V)

**ADDITIONAL SERVICES:**

None

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ADDENDUM  
SOFTWARE SUPPORT CATEGORIES

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

**CATEGORY A**

1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

**CATEGORY B**

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

**CATEGORY C**

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.