

# digital

## Software Product Description

**PRODUCT NAME: VAX-11 2780/3780 Protocol Emulator, Version 1.1**

**SPD 25.7.1**

### **DESCRIPTION:**

VAX-11 2780/3780 Protocol Emulator (PE) emulates the synchronous line protocol used by a 2780 or 3780 Remote Batch Terminal. The emulator provides the VAX/VMS user with a mechanism for transferring data between the VAX/VMS system and another system equipped to handle 2780 or 3780 communications protocols.

The emulator can be invoked interactively or by a command procedure. The emulator's command set is designed to facilitate sharing of a communication line among several users. With the appropriate modem options, the emulator is capable of automatically answering incoming calls.

Sophisticated operations can be performed by a combination of command procedures, allowing for example, unattended operation. This would include the capability of detecting an incoming call, establishing the connection, and then transmitting and receiving files and recovering from transmission failures all without the intervention of the operator.

Several data formats are supported with the use of a particular format selected via user command. Users can select various forms control translation schemes, variable length records or card images, ASCII/EBDIC translation, and BSC transparency. All file I/O is performed through the VAX/VMS record management facility. Print and punch stream recognition is implemented in such a way that the data manipulation scheme can differ with each stream.

The following IBM remote batch terminal features are supported:

- 2780 Extended and Multiple Record Option
- Variable Horizontal Forms Control
- BSC Transparency
- 3780 Space Compression

The product can concurrently run up to four physical lines, each with a different set of attributes (e.g., some can be 2780, the others, 3780) at speeds up to 9600 bps per line.

### **MINIMUM HARDWARE REQUIRED:**

The VAX-11 2780/3780 Protocol Emulator requires a valid VAX/VMS configuration plus a DUP-11.

### **OPTIONAL HARDWARE:**

Up to three additional DUP-11s

### **PREREQUISITE SOFTWARE:**

VAX/VMS Operating System, Version 2.0

### **OPTIONAL SOFTWARE:**

None

### **TRAINING CREDITS:**

None

### **SUPPORT CATEGORY:**

DIGITAL SUPPORTED

VAX-11 2780/3780 Protocol Emulator is a DIGITAL Supported Software Product.

### **SOFTWARE INSTALLATION:**

DIGITAL INSTALLED

DIGITAL installation is required for Software Product Support. There is no charge for installation if performed at the time of system installation. DIGITAL installed software products, except for operating systems, are subject to an add-on installation fee when purchased subsequent to system installation.

### **SOFTWARE PRODUCT SUPPORT**

VAX-11 2780/3780 Protocol Emulator includes standard warranty services as defined in the Software Support Categories Addendum of this SPD.

### **CUSTOMER RESPONSIBILITIES:**

Before installation of the software, the customer must:

- Previously have installed all requisite hardware including terminals.
- Obtain, install, and demonstrate as operational any modems and other equipment and facilities necessary to interface to DIGITAL's communication equipment.
- Demonstrate equivalency of operation for modems other than Bell 201, 208, and 209, or in Europe, PTT approved synchronous modems.
- Provide a relevant file or job that can be submitted to the remote system to facilitate installation verification of the software.
- Make available for a reasonable period of time, as mutually agreed by DIGITAL and the customer, all hardware, communication facilities terminals, and relevant remote system personnel that are to be used during installation.

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- Customer accepts responsibility for proper operation of equipment or software not provided by DIGITAL and conformance of such equipment and software to the IBM specifications cited below.

**WARRANTY LIMITATIONS:**

DIGITAL has designed this software according to the specifications for IBM 2780 and 3780 data transmission terminals as defined in IBM documents GA27-3005 and GA27-3063, respectively.

The following is an example of a specific configuration against which the software has been tested:

IBM OS/VS2-HASP

Since the introduction of this product, other configurations may have been tested. Please contact your local DIGITAL office for up-to-date information.

**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 License Agreement between Purchaser and DIGITAL.

Options with no support services are only available after the purchase of one supported license.

A single-use license only option is a license to copy the software previously obtained under license.

Sources and/or listings options are only available after the purchase of at least one binary license and after a source license agreement is in effect.

The following key (M, R, Y, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QE111-AY = binaries on RX01 Floppy Diskette.

M = 9-track 1600 BPI Magtape (PE)  
 R = Microfiche  
 Y = RX01 Floppy Diskette  
 Z = No hardware dependency

QE111 -A— Single-use license, binaries, documentation, support services (media: Y)

QE111 -C— Single-use license, binaries, documentation, no support services (media: Y)

QE111 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

*Sources/Listings Options*

QE111 -E— All sources (media: M)

QE111 -F— Listings (media: R)

*Update Options*

Users of VAX-11 2780/3780 PE whose specified Support Category warranty has expired may order under license the following software update at the then current charge for such update. The update is distributed in binary form on the appropriate medium and includes no installation or other services unless specifically stated.

QE111 -H— Binaries, documentation (media: Y)

QE111 -H— Right to copy for single-use (under existing license), no binaries, no documentation (media: Z)

*Sources/Listings Update Options*

The following options are available to licensed users as updates to sources and/or listings options. The update is distributed in source form on the appropriate medium and includes no installation or other services unless specifically stated.

QE111 -N— Sources update (media: M)

*Miscellaneous Options*

QE111 -G— Documentation only kit (media: Z)

**ADDITIONAL SERVICES:**

Post-warranty Software Product Services for this software product are available with the prerequisite being the purchase of the VAX-11 2780/3780 PE Self-Maintenance Service for Software. Customers should contact their local DIGITAL office for additional information.