Software Product Description

PRODUCT NAME: DECwindows DECnet/SNA 3270 Terminal Emulator for VMS, Version 1.0

SPD 31.58.00

DESCRIPTION

The DECwindows DECnet/SNA 3270 Terminal Emulator for VMS (DW VMS 3270 TE) is a layered software product that allows users of DIGITAL-supported workstations on suitably configured VMS systems within a DECnet network to interactively access IBM® mainframe-based applications. The applications were originally developed for use with IBM 3270 display stations in a System Network Architecture (SNA) networking environment.

Access to IBM mainframe applications is gained by means of the DECnet/SNA Gateway or VMS/SNA software.

In normal operation, an IBM system transfers a formatted screen much like a "form" or "panel" to the 3270 block mode terminal and the user fills in any form required data. When complete, the form is transmitted to the IBM host as a single unit. This mechanism is emulated with a DIGITAL character mode terminal by buffering the "form" in the DECnet host's memory and displaying it on the terminal. The screen "form" is sent to the IBM host system by means of the DECnet/SNA Gateway or VMS/SNA.

Translation tables on the respective systems convert ISO Latin terminal input to a subset of IBM multinational EBCDIC code for transfer through either the DECnet/SNA Gateway or VMS/SNA software. These translation tables can be modified to fit most language needs.

If customized, DW VMS 3270 TE can be invoked by the users from the VMS FileView applications menu or from a VMS command line. When DW VMS 3270 TE is invoked from the VMS FileView applications menu, DW VMS 3270 TE options are specified in a DECwindows dialog box. When DW VMS 3270 TE is invoked from a VMS command line, command line qualifiers are used to specify the IBM system and system resources to which the users wishes to connect. While the emulation utility is operating, the display window will be formatted in a fashion similar to a 3270 display station with the option of 3270, 3279-S3G or 3192-G terminal types. When the user has completed work on the IBM system, the 3270 emulator is dismissed and control is returned to the VMS command level or to the VMS FileView utility.

Features

The DW VMS 3270 TE, by means of a DIGITAL SNA Gateway or VMS/SNA, supports emulation of the following features of an IBM 3270 Display Station attached to an IBM 3274 Model 1C controller with the following features:

- Category A terminal adapter (for 32 terminals)
- Configuration support D
- Common communications adapter
- External modem interface

The DW VMS 3270 TE provides functions similar to the following IBM display stations:

3178
3180 M1-5
3278 M1-5
3179-G
3192-G
3279-S3G

Supported Features

- Protected and unprotected fields
- Alphanumeric and numeric data
- Up to 1920 characters (exception is 3278 Model 1 where applicable)
- Audible alarm
- Intensified display, normal display, and non-display characters
- Alphanumeric Cursor (Block Cursor only)

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- Numeric lock override
- Auto-repeat keys (as available on the workstation keyboard SET-UP feature)
- SYS REQ (Allows user to switch between SSCP-LU and LU-LU sessions)
- Local Function Keys supported
  - Erase to End of Field
  - Erase Input
  - Print
  - Backtab
  - Cursor up and down
  - Cursor home
  - Cursor left and right
  - Delete Character
  - Duplicate
  - Field Mark
  - Insert Mode
- Base color by data stream
- Structured fields
- 3270 Extended Attributes supported
  - Foreground Color (blue, red, pink, green, turquoise, yellow, white, black)
  - Background Color (blue, red, pink, green, turquoise, yellow, white, black)
  - Extended Highlighting

    Reverse Video
    Underscore
  - Programmed Symbols/Character Set
- Local and host initiated copy and printer order FF (formfeed) (black & white only) IBM 3278 and 3180 display station Models 1, 2, 3, 4, and 5 with the following features:
  - Screen Size Support:

    Model 1 - Up to 960 characters
    Model 2 - Up to 1920 characters
    Model 3 - Up to 2560 characters
    Model 4 - Up to 3440 characters
    Model 5 - Up to 3564 characters

IBM 3179-G and 3192-G display stations with the following features:

- Vector-to-Raster Graphics
- Mouse Support
- Trimming function as provided in DECwindows environment
- Graphic Cursor (only white cross cursor)
- Programmed Symbol Set A and B
- Up to 2560 characters (32 x 80)

IBM 3279-S3G display stations with the following features:

- Programmed Symbol Set A-F
- Up to 2560 characters (32 x 80)

Features Not Supported

- Selector light pen, security lock, magnetic strip card and operator identification card reader
- <-! (NEW LINE) AS AUTO-REPEAT KEYS
- Field inherit keys
- Programmed symbol selection keys
- MAGnetic Slot Reader
- Keyboard Definition Function
- Entry Assist Function
- Key Functions (DELETE WORD, NEXT WORD, and PREVIOUS WORD)
- APL Character Set
- Handscanner

A readily available on-line HELP facility provides information on key functions. The operator information area as implemented on an actual 3270 display is not supported, however much of the same information is reported by means of status indicators where the status line is displayed. In addition, the user has the ability to redefine certain IBM key functions to different keys of the workstation keyboard.

SOURCE CODE INFORMATION

Sources of message files are available only for translation to languages other than English. Source code will not be distributed for general purposes.

INSTALLATION

Customer Responsibilities

Only experienced customers should attempt installation of this product. DIGITAL recommends that all other customers purchase DIGITAL's Installation Services. These services provide for installation of the software product by an experienced DIGITAL Software Specialist.

Before DIGITAL installation of the software the customer must:

- Have previously installed all requisite hardware including terminals and DECnet/SNA gateway products.
- Obtained, installed, and demonstrated as operational any modems and other equipment and facilities necessary to interface to DIGITAL's communications equipment.
- Generated, to DIGITAL's satisfaction, any necessary IBM host software that will be communicating with the DECnet/SNA gateway or VMS/SNA and DW VMS 3270 TE.
- Made available for a reasonable period of time, as mutually agreed by DIGITAL and the customer, all hardware, communications facilities, and terminals that are to be used during installation.

Delays caused by any failure to meet these responsibilities will be charged at the prevailing rate for time and materials.

Successful use of this product requires that:

- The customer be prepared to work with both DIGITAL and IBM systems personnel to coordinate the preinstallation activities.
- The customer be capable of modifying IBM component generation parameters to support either the DECnet/SNA gateway or VMS/SNA and the DW VMS 3270 TE software.

PREREQUISITE SUPPORT

A Network Profile and a DECnet Customer Support Plan (where appropriate) covering all VAX nodes and personal computers that wish to access the IBM host based applications environment must be prepared jointly by DIGITAL and the customer.

For DECwindows DECnet/SNA 3270 Terminal Emulator for VMS to be DIGITAL supported, the customer must have a DIGITAL supported DECnet/SNA Gateway or VMS/SNA configuration.

To have a DIGITAL supported DECnet/SNA Gateway or VMS/SNA configuration, purchase of the Gateway Installation/Orientation Service (QSF0x-SZ) is REQUIRED in conjunction with the customer's first purchase of the DECnet/SNA Gateway or VMS/SNA.

HARDWARE REQUIREMENTS

- VAX, MicroVAX, or VAXstation configuration as specified in the System Support Addendum (SSA 31.58.00-x).
- Any properly configured DECnet/SNA Gateway or VMS/SNA system as specified in the System Support Addendum (SSA 31.58.00-x).

SOFTWARE REQUIREMENTS*

- VMS/SNA
- DECnet/SNA Gateway-CT
- DECnet/SNA Gateway-ST
- DECnet/SNA Gateway

For DECnet/SNA Gateway environments:

- VMS Operating System (and necessary components of VMS DECwindows)
- DECnet-VAX
- In a DEC MicroServer (DEMSA), DEC MicroServer-SP (DEMSB), or DEC ChannelServer (DESNA) environment, the gateway load host must have DECnet/SNA VMS Gateway Management software as specified in the System Support Addendum (SSA 31.58.00-x).
- In a DECnet/SNA Gateway (DECSA) environment, all VMS systems to which DECwindows DECnet/SNA 3270 Terminal Emulator for VMS software provides access must have DECnet/SNA Gateway Management software as specified in the System Support Addendum (SSA 31.58.00-x).

For VMS/SNA environments:

- VMS Operating System (and necessary components of VMS DECwindows)
- VMS/SNA Software

* Refer to the System Support Addendum (SSA 31.58.00-x) for availability and required versions of prerequisite/optional software and for information regarding components of VMS DECwindows.

ORDERING INFORMATION

Software Licenses: QL-VXBA*-**
Software Media: QA-VXBA*-**
Software Documentation: QA-VXBAA-GZ
Software Product Services: QT-VXBA*-**

* 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'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 CPU-capacity 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 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.

Warranty Limitations

IBM Supported Configurations

This software has been tested and is warranted against IBM System/370 (includes 30xx and 43xx series) class processor systems configured with the following IBM software. While this software can function correctly with other IBM software and equipment, and with software other than that supported by IBM, DIGITAL cannot offer its standard warranty for this software unless it has been tested with such equipment and software configurations.

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DECwindows DECnet/SNA 3270 TE has been tested and warranted against the following IBM software configuration:

Chart

Software Product	Version	Release
IBM MVS Environment		
MVS/SP	2 3	2.0 1.0
TSO/E/XA		3.0 4.0
ISPF/MVS	2	2.0 3.0
ISPF/PDF	2	2.0 3.0
IMS	2	1.0 3.0
CICS/OS/MVS	1	6.1 7.0
NCCF	2	2.0
NETVIEW	1	1.0 2.0
GDDM	2	1.0
SAS	5.18	
IBM VM Environment		
VM/SP VMS/XA SP	1 1	5.0 2.0
CMS		4.1 5.0
ISPF/VM	2	2.0
ISPF/PDF	2	2.0
NCCF	2	1.0
NETVIEW	1	1.0 2.0

Chart (continued)

IBM DOS/VSE Environment		
VSE/SP	2	1.6
VSE/ICCF	2	1.0
ISPF/VSE	1	1.0
ISPF/PDF	1	1.0
CICS/DOS/VS	1	6.0
NCCF	2	2.0

Please contact your local DIGITAL office for up-to-date information regarding listed configurations.

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