Software Product Description

PRODUCT NAME: DECnet/SNA VMS Printer Emulator, Version 1.2 **SPD 26.70.05**

DESCRIPTION

DECnet/SNA VMS Printer Emulator (PrE) is a VMS layered software product that allows suitably configured VMS systems within a DECnet network or running VMS/SNA software to receive printable data from IBM® host-based applications. These applications will originally have been developed to produce output for an IBM 3287 printer in system mode that is connected to an IBM 3274 cluster controller in a Systems Network Architecture (SNA) networking environment. Access from the IBM system to VMS systems is via a DECnet/SNA Gateway or VMS/SNA software.

In an actual IBM 3287 environment, data transfer is one way in nature (from host to printer) and generates hard copy. The PrE Access software will allow VMS users to direct the received output either to be printed via the VMS Print Symbiont or spooled to a disk file.

Features

The following is a summary of functions provided by PrE:

- PrE is configured and controlled via a DIGITAL Command Language (DCL) style interface for ease of use.
- PrE can accept data in SNA Character String (SCS) format (LU Type 1) and 3270 Data Stream format (LU Type 3).
- PrE recognizes the following 3270 Data Stream orders:

  CR - Carriage Return
  DUP - Duplicate (converted to a semicolon)
  EM - End Message
  EUA - Erase Unprotected to Address
  FF - Formfeed
  FM - Field Mark (converted to an asterisk)
  GE - Graphics Escape (converted to a hyphen)
  NL - Newline
  PT - Program Tab
  RA - Repeat to Address
  SBA - Set Buffer Address
  SF - Start Fields

- PrE supports the following 3270 Data Stream commands:

  WRITE
  ERASE/WRITE
  ERASE/WRITE ALTERNATE
  ERASE ALL UNPROTECTED

- PrE will recognize the following SNA Character String orders:

  BS - Backspace
  CR - Carriage Return
  FF - Formfeed
  GE - Graphics Escape (converted to a hyphen)
  HT - Horizontal Tab
  IRS - Inter Record Separator
  LF - Linefeed
  NL - Newline
  SHF - Set Horizontal Format
  SVF - Set Vertical Format
  TRN - Transparency
  VCS - Vertical Channel Select
  VT - Vertical Tab

- PrE accepts but ignores the following SNA Character String orders:

  BEL - Bell
  ENP - Enable Presentation
  INP - Inhibit Presentation
  SLD - Set Line Density

- PrE supports the 3287 printer Program Attention (PA1 and PA2) keys and the CANCEL PRINT key using commands entered at the user interface.
- PrE does not support the Printer Authorization Matrix feature, and it does not emulate the 3287's REPRINT key function.
- PrE supports 1-255 copies of the print job to be printed.
- PrE supports a maximum of 128 sessions simultaneously.

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- PrE supports the ability to submit a print job for another user. The print job will run exactly as if that user submitted the request. Accounting information is logged to that user's account. The user name string can be 1 to 12 characters in length and should be a valid username on the system.
- PrE supports multiple form types. The form type is specified by using either a numeric value or a form name. These form types can refer to the print image width, length or type of paper. Codes for these form types are installation-defined.
- PrE supports the ability to change queue name, forms, number, number of copies, user name and choice of deleting the output stream files without stopping the session.
- PrE supports the deletion of output files that are spooled to printers as a user-selectable setting.
- PrE provides an option to send an INIT SELF request to the IBM application.
- PrE supports LU security through the ability to specify a password for providing additional security to access the LU. This feature is supported in the DECnet/SNA Gateway-ST, DECnet/SNA Gateway-CT, and VMS/SNA V2.0.

INSTALLATION

For PrE 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 configuration, purchase of the Gateway Installation/Orientation Service is REQUIRED in conjunction with the customer's first purchase of the DECnet/SNA Gateway. Refer to the DECnet/SNA Gateway SPDs (SPD 30.15.xx, SPD 29.C6.xx, SPD 29.76.xx) for further details.

To have a DIGITAL supported VMS/SNA configuration, purchase of the VMS/SNA Installation/Orientation Service is REQUIRED in conjunction with the customer's first purchase of VMS/SNA. Refer to the VMS/SNA Software Product Description (SPD 27.01.xx) for further details.

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.

Customer Responsibilities

Before DIGITAL installation of the software the customer must:

- Have previously 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 communications equipment.
- Demonstrate equivalency of operation for modems other than Bell System 201C, 208A or 209A, AT&T 2596 or 2556, Dataphone II (2096A, DIGITAL 2500, or equivalent) type modems or, in Europe, PTT approved modems.
- Have generated, to DIGITAL's satisfaction, any necessary IBM host software that will be communicating with the DECnet/SNA Gateway or VMS/SNA and Printer Emulator.
- Make 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 must be prepared to work with both DIGITAL and IBM systems personnel to coordinate the pre-installation activities.
- The customer should be capable of modifying IBM component generation parameters to support either the DECnet/SNA Gateway or VMS/SNA and the Printer Emulator software.

HARDWARE REQUIREMENTS

VAX, MicroVAX or VAXstation configuration as specified in the System Support Addendum (SSA 26.70.05-x).

SOFTWARE REQUIREMENTS*

In a DECnet/SNA Gateway Environment

- VMS Operating System
- DECnet-VAX

In a VMS/SNA Environment

- VMS Operating System
- VMS/SNA

The DECnet/SNA VMS Printer Emulator software requires one of the following products:

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

* Refer to the System Support Addendum for availability and required versions of required software (SSA 26.70.05-x).

ORDERING INFORMATION

Software Licenses: QL-044A*-**
Software Media: QA-044A*-**
Software Documentation QA-044AA-GZ
Software Product Services: QT-044A*-**

* 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

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 may 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.

The following list shows the configurations with which the software has been tested and is warranted.

Software Product	Version	Release
IBM MVS/SP:		
CICS/OS/VS	1	6.1
	1	7.0
DSPRINT		2.0
JES328X	2	1.0
IMS/VS	2	2.0
IBM VM/SP:		
RSCS	2	1.0
IBM VSE/SP:		
CICS/DOS/VS	1	6.0
VSE/ICCF	2	1.0

Refer to the DECnet/SNA Gateway Software Product Description (SPD 30.15.xx, 27.76.xx, or 29.C6.xx) or the VMS/SNA Software Product Description (SPD 27.01.xx) for additional information on supported IBM operating systems, access methods and communications front end software.