COMPAQ

Software Product Description

PRODUCT NAME: Compaq SNA Printer Emulator for OpenVMS, Version 1.4 **SPD 26.70.09**

This SPD describes *Compaq SNA Printer Emulator for OpenVMS*, which is available for the OpenVMS Alpha and OpenVMS VAX platforms. All information applies to both platforms unless otherwise indicated.

DESCRIPTION

Compaq SNA Printer Emulator for OpenVMS (PrE) is an OpenVMS layered software product that allows suitably configured OpenVMS systems 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 OpenVMS systems is via one of the following SNA servers or gateways:

TCP/IP or DECnet Connections

- *Compaq SNA Peer Server*
- *Compaq SNA Domain Gateway*
- *Compaq SNA Access Server for Windows NT®*
- *Compaq SNA Server for OpenVMS Alpha*, a layered product that supports local access as well as TCP/IP and DECnet clients

DECnet Only Connections

- *Compaq DECnet SNA Gateway for Synchronous Transport*
- *Compaq DECnet SNA Gateway for Channel Transport*
- *Compaq SNA Server for OpenVMS VAX*, an OpenVMS VAX layered product that supports local access as well as remote DECnet clients

In an actual IBM 3287 environment, data transfer is one way (from host to printer) and generates hard copy. The PrE Access software will allow OpenVMS users to direct the received output either to be printed via the OpenVMS 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 Compaq 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 - Form-feed
  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 - Form-feed
  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 to 255 copies of the print job to be printed.
- PrE supports a maximum of 250 sessions simultaneously.
- 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 user name 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 *Compaq DECnet SNA Gateway for Synchronous Transport*, the *Compaq DECnet SNA Gateway for Channel Transport*, the *Compaq SNA Domain Gateway*, the *Compaq SNA Access Server for Windows NT*, and the *Compaq SNA Server for OpenVMS* products.

INSTALLATION

Only experienced customers should attempt installation of this product. Installation services from Compaq are recommended for all other customers. These services provide for installation of the software product by an experienced software specialist.

PREREQUISITE SUPPORT

For *Compaq SNA Printer Emulator for OpenVMS* to be supported by Compaq, the customer must also have a support agreement for the selected prerequisite SNA server or gateway.

HARDWARE REQUIREMENTS

Processors Supported

For information about supported processors, refer to the OpenVMS Operating System for Alpha and VAX Software Product Description (SPD 25.01.xx).

Processors Not Supported

PrE is not supported on the following processors:

- VAX-11/785
- VAX-11/788

Disk Space Requirements (Block Cluster Size = 1)

Disk space required for installation:

OpenVMS Alpha	2119 blocks (1.06 MB)
OpenVMS VAX	1711 blocks (856 KB)

Disk space required for use (permanent):

OpenVMS Alpha	1037 blocks (520 KB)
OpenVMS VAX	574 blocks (290 KB)

These counts refer to the disk space required on the system disk. The sizes are approximations; actual sizes may vary depending on the user's system environment, configuration, and software options selected.

SOFTWARE REQUIREMENTS

OpenVMS Operating System for Alpha and VAX, Version 6.2, 7.1 (VAX), 7.1-2 (Alpha), 7.2, 7.2-1 (Alpha), or 7.3 (SPD 25.01.xx).

Using *Compaq SNA Printer Emulator for OpenVMS* requires a networking product appropriate for the version of OpenVMS, plus one of the SNA server or gateway products listed below. Networking options include:

- TCP/IP Services for OpenVMS (SPD 46.46.xx)
- DECnet for OpenVMS (Phase IV, SPD 48.48.xx)
- DECnet-Plus (Phase V, SPD 50.45.xx for Alpha, SPD 25.03.xx for VAX).

Choose a networking option appropriate for OpenVMS Versions 6.2, 7.1 (VAX), 7.1-2 (Alpha), 7.2, 7.2-1 (Alpha), or 7.3 from the following table:

OpenVMS	TCP/IP	DECnet IV	DECnet V
6.2	4.2	6.2	6.3
7.1	5.1	7.1	7.1
7.1-2	5.1	7.1-2	7.1
7.2	5.1	7.2	7.2
7.2-1	5.1	7.2-1	7.2-1
7.3	5.1	7.3	7.3

Choose *one* of the following SNA server or gateway products:

- *Compaq DECnet SNA Gateway for Channel Support (SPD 29.76.xx)*
- *Compaq DECnet SNA Gateway for Synchronous Transport (SPD 25.C6.xx)*
- *Compaq SNA Domain Gateway (SPD 38.69.xx)*
- *Compaq SNA Peer Server (SPD 51.08.xx)*
- *Compaq SNA Server for OpenVMS Alpha (SPD 70.89.xx)*
- *Compaq SNA Server for OpenVMS VAX (SPD 27.01.xx)*

Cluster Environment

This layered product is fully supported when installed on any valid and licensed VMScluster™ configuration without restrictions. The Hardware Requirements section details any special hardware required by this product.

VMScluster configurations are described in the VMScluster Software Product Description (SPD 42.18.xx) and include CI™, Ethernet, and Mixed Interconnect configurations.

OpenVMS Tailoring Classes

The following OpenVMS classes are required for full functionality of this layered product:

- OpenVMS Required Saveset
- Network Support
- Utilities

For more information on OpenVMS classes and tailoring, refer to the OpenVMS Operating System for Alpha and VAX Software Product Description (SPD 25.01.xx).

GROWTH CONSIDERATIONS

The minimum hardware and software requirements for any future version of this product may be different from the minimum requirements for the current version.

DISTRIBUTION MEDIA

This product is available as part of the OpenVMS Alpha and VAX Software Product Libraries on CD-ROM. The software documentation for this product is available as part of the OpenVMS Alpha and VAX Online Documentation Libraries on CD-ROM. Documentation in hardcopy format can be ordered separately.

SOFTWARE WARRANTY

This software is provided by Compaq with a 90-day conformance warranty in accordance with the Compaq warranty terms applicable to the license purchase.

WARRANTY LIMITATIONS

IBM Supported Configurations

This product is warranted with the IBM software configurations listed in the following table.

Table 1
IBM Software Configurations

Software Product	Version	Release
CICS/ESA	4	1.0
CICS/VSE	2	3.0
IMS/ESA	All	All
NetView	3	1.0, 2.0
RSCS	3	2.0
Tivoli TIME 10 NetView	1	2.0, 3.0
VSP	6	2.0
z/OS	1	1.0

Refer to SNA server or gateway Software Product Descriptions for additional information on supported IBM

operating systems, access methods, and communications front-end software.

Note: Compaq will support IBM software configurations, version and release numbers, as long as support for such configurations is generally available from IBM. Other configurations may have been tested since this SPD was published. Please contact your local Compaq office for up-to-date information regarding listed configurations.

ORDERING INFORMATION

For OpenVMS Alpha Systems:

Software Licenses: QL-10TA*-**
Software Documentation: QA-044AA-GZ

Media and documentation for this product are available on the OpenVMS Alpha Software Product Library and Online Documentation Library. Documentation in hardcopy format can be ordered separately.

For OpenVMS VAX Systems:

Software Licenses: QL-044A*-**
Software Documentation: QA-044AA-GZ

Media and documentation for this product are available on the OpenVMS VAX Software Product Library and Online Documentation Library. Documentation in hardcopy format can be ordered separately.

* Denotes variant fields. For additional information on available licenses and services refer to the appropriate price book.

The above information is valid at time of release. Please contact your local Compaq office for the most up-to-date information.

SOFTWARE LICENSING

This software is furnished only under a license. For more information about Compaq's licensing terms and policies, contact your local Compaq office.

License Management Facility Support

This layered product supports the OpenVMS 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 OpenVMS Operating System for Alpha and VAX Software Product Description (SPD 25.01.xx) or the License Management Facility manual of the OpenVMS Operating System documentation set.

For more information about Compaq's licensing terms and policies, contact your local Compaq office.

SOFTWARE PRODUCT SERVICES

Installation

Installation provides comprehensive installation and of Compaq and non-Compaq hardware, software, and networks products. These products include systems, servers, upgrades, workstations, terminals, PCs, peripherals, network equipment, operating systems, and layered products. Optional pieces of the Installation offer include site planning and preparation, orientation, and other projects which are based on the installation of computer equipment (e.g. relocation services).

License Subscription

License Subscription provides the license rights to use all new versions of those products, which are released during the contract period. Also included are the rights to use certain server-resident products whose license is included in a corresponding client license.

Telephone Software Support

Software Support provides software problem identification and resolution and operational support for system managers, technical support/helpdesk personnel who manage Compaq and popular multivendor server software in either a standalone or networked environment. This service provides access both to technical resources to assist in problem diagnosis and resolution and to Compaq's information database. This combination of support resources will address system management questions and inquiries on a wide variety of topics including information on the latest product features, known problems and available solutions, and operational advice and assistance to help the system manager, system administrator better manage its information technology environment.

Please contact your local Compaq office for additional information on specific services in your area.

© 2001 Compaq Computer Corporation

COMPAQ and the Compaq logo Registered in U.S. Patent and Trademark Office. DECnet and OpenVMS are trademarks of Compaq Information Technologies Group, L.P. in the United States and other countries.

UNIX and The Open Group are trademarks of The Open Group.

All other product names mentioned herein may be trademarks or registered trademarks of their respective companies.

Confidential computer software. Valid license from Compaq required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the

U.S. Government under vendor's standard commercial license.

Compaq shall not be liable for technical or editorial errors or omissions contained herein. The information in this document is subject to change without notice.