Software Product Description

PRODUCT NAME: **VAX PrintServer Client Software, Version 3.0** **SPD 27.67.04**

DESCRIPTION

The PrintServer® Client Software is a layered product that enables suitably configured VMS or MicroVMS systems within a DECnet Ethernet network to access the PrintServer 20®, PrintServer 40®, and PrintServer 40 Plus®.

The Client software consists of the following components:

- A print symbiont to process print requests from one or more PrintServer printer queues.
- Distribution software to transmit the request and associated data over the Ethernet to a remote PrintServer via DECnet.
- Translators to convert ANSI Text and Sixel Graphics, ReGIS, and Tektronix ® 4010/4014 files into the PostScript ® language.
- A series of PostScript tools for creator software support. These include a PostScript error handler, Font Metric Files and Font Encoding Vectors for the ISO Latin Alphabet Number 1 (ISO 8859/1) and DIGITAL Multinational Character Set for all of the built-in PostScript fonts.

The PrintServer Client software must be installed on each system that will be providing distributed printing services to its users via a PrintServer 20, PrintServer 40, or PrintServer 40 Plus.

A system running the PrintServer Client software can transmit print requests to any PrintServer 20, PrintServer 40, or PrintServer 40 Plus on the network that is defined in its network database. A maximum of 16 clients can simultaneously access a PrintServer with only one client active at one time.

VAX PrintServer Supporting Host Software (SPD 27.68.xx) is a companion product to this software.

Features

Print Symbiont

The /PARAMETERS qualifier in the PRINT command is used to pass PrintServer specific parameters to the print symbiont for processing. These parameters are as follows:

- Data__Type - Specifies the type of data in the print job being sent to the printer. If the Data__Type is other than PostScript, the print symbiont will call one of the supplied translators (ANSI text and Sixel Graphics, ReGIS, or Tektronix) to convert the data to PostScript prior to sending it to the PrintServer.
- Input__Tray - Selects the printer input tray that will supply the paper or media for this job.
- Output__Tray - Selects the printer output tray where the printed output will be deposited.
- Messages - Specifies the disposition of messages generated by the print job.
- Page__Limit - Specifies the first and last logical pages to be printed for the job.
- Page__Orientation - Specifies the orientation of printed output on the page (portrait or landscape). This parameter is ignored when Data__Type is PostScript unless Number__Up is specified.
- Page__Size - Specifies the size of the logical pages being printed. This parameter is ignored if Data__Type is PostScript.
- Sheet__Size - Specifies the physical size of the sheets to be printed. This parameter will cause the appropriate input tray to be selected.
- Sheet__Count - Specifies the number of times each sheet is to be printed at the PrintServer.
- Layup__Definition - Specifies the name of a file that contains all of the page layup features (Borders, Margins, Margin Alternation, Pages per Sheet, First Page, Page Order and Page Grid) except Number__Up.

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PostScript is a registered trademark of Adobe, Inc.

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- Number__Up - Specifies the maximum number of pages that can be printed on one side of a sheet.
- Sides - Controls the number of sides printed per sheet on the PrintServer 20. It also controls print-time conditional layout related to 2-sided printing when the creator supports this feature; that is, it selects whether the layout of a page is simplex, duplex, or tumble.

The /SETUP qualifier may be used to send specified modules from a device control library to the printer. These modules may be encoded in the native data syntax of the printer (PostScript), or they may be encoded in the data syntax of the file(s), being printed (PostScript or ANSI only); the symbiont will pass the modules through the ANSI translator if necessary.

The print symbiont also supplies the following accounting information for each print job: sheets of paper printed, Number of RMS Gets to all the user's files in the print job and Number of QIO Writes over the network to the PrintServer.

Translators

Translator software allows users to print documents on the PrintServer with graphic protocols other than PostScript, the native language of the PrintServer 20, PrintServer 40, and PrintServer 40 Plus by translating the designated protocol into PostScript.

The translators are invoked by the print symbiont at print time through the /PARAMETERS switch of the PRINT command or by submission to a translator specific queue.

The translators provided convert the following data types into PostScript:

- ANSI text and Sixel graphics compatible with the LN03 excluding support for font cartridges
- ReGIS compatible with the VT240
- Tektronix 4010/4014 compatible with VT240

PostScript is a device-independent, page description language that has the ability to describe the appearance of text, images, and graphic material on the printed page.

PostScript Tools

The tools consist of the following:

A PostScript error handler which prints the last partial page of output as well as information to help identify the error. This information includes the error name, the PostScript operator that encountered the error, the operand stack, and the graphics state of the machine at the time of the error.

A series of ASCII-encoded Font Metric Files that contain information necessary for application programs to format text. The Font Metric Files consist of four sections that describe different general properties of a font. These sections include a global section that pertains to the font as a whole; a character metrics section that consists of information such as character widths; a kerning data section that consists of information regarding different types of kerning; and a composite character section containing information for forming character composites such as accented letters. The kerning section and composite character sections are optional and may not be present for a given font.

Font Encoding vectors for the ISO Latin Alphabet Number 1 (ISO 8859/1) and DIGITAL Multinational Character Set are provided for all of the built-in fonts.

INSTALLATION

Only experienced customers should attempt installation of this software product. DIGITAL recommends that all other customers purchase DIGITAL's Installation Services. These services provide for the installation of the software product and the PrintServer 20, 40 and 40 Plus hardware by an experienced DIGITAL Specialist.

Customer Responsibilities

Before installation of the software, the customer must:

- Previously have installed all prerequisite software and hardware
- Obtain, install and demonstrate as operational any equipment and facilities necessary to interface to DIGITAL's communication equipment
- Make available for a reasonable period of time, as mutually agreed upon by DIGITAL and the customer, all hardware, communication facilities and terminals that are to be used during installation
- Supply to DIGITAL all of the information necessary for installation of the software (e.g. as described in the PrintServer 40 Series Site Preparation Guide)

Installation of PrintServer Client Software will consist of the following:

- Verification that the installation information in the PrintServer Site Preparation Guide is complete for the PrintServer 40 series of printers
- Verification that a complete set of PrintServer Client Software media and documentation has been received
- Verification that all hardware and software prerequisites have been met and the equipment is operational
- Installation of the PrintServer Client Software on one system (the PrintServer Supporting Host and PrintServer Client Software may be installed on the same or separate system)
- The optional establishment of print queues for the three supplied translators and PostScript on the PrintServer Client system
- Modification of the VMS start-up files to automate the start-up of print queues
- Modification of the DECnet databases to add the PrintServer node name and address
- Verification that the PrintServer Client Software has been correctly installed by running the Installation Verification Program

Should a DIGITAL Specialist be required to modify the previously installed software parameters, a time and materials charge will apply.

HARDWARE REQUIREMENTS

VAX, MicroVAX or VAXstation configuration as specified in the System Support Addendum (SSA 27.67.04-x).

SOFTWARE REQUIREMENTS*

VMS Operating System or MicroVMS Operating System

DECnet-VAX

VAX PrintServer Supporting Host Software

* Refer to the System Support Addendum for availability and required versions of prerequisite/optional software (SSA 27.67.04-x).

ORDERING INFORMATION

Software Licenses: QL-797A*-**
Software Media: QA-797A*-**
Software Documentation: QA-797AA-GZ
Software Product Services: QT-797A*-**

* 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.

The license to use this software is included with a PrintServer. The license gives you the right to use the software on a single CPU or equipment configuration and the right to copy this software for use on any CPU or equipment configuration on a local area network that requires access to a PrintServer 20, PrintServer 40 or PrintServer 40 Plus. This includes a VAXcluster system.

SOFTWARE PRODUCT SERVICES

A variety of service options are available. For more information on these or other services, please 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.
