ScriptServer® Printing System Release Notes

Software Version V6.0
June 2008

Welcome to ScriptServer for OpenVMS version 6.0.

Interoperability with ScriptServer PAN Software

Integration with ScriptServer PDF Broker Software

Creating PDF Files with ScriptServer Repository Queues

New Queue Manager Message Logging

Welcome to ScriptServer for OpenVMS version 6.0.

GrayMatter Software is pleased to be introducing the first new release of ScriptServer for OpenVMS in several years. This release reaffirms our commitment to the OpenVMS operating platform for years to come.

> **Note**
>
> ScriptServer for OpenVMS and ScriptServer PAN are separate products sold under the ScriptServer trade name umbrella. They provide similar functionality in different environments. This document discusses changes to the ScriptServer for OpenVMS product, which now provides integration with ScriptServer PAN. When not explicitly stated otherwise, references to "ScriptServer" herein are referring to the ScriptServer for OpenVMS product.

Overview

This release introduces the following important new features for the ScriptServer Printing System for OpenVMS:

- Compatibility with the Hewlett-Packard's new Integrity computer architecture featuring the industry-standard Itanium 64-bit CPU from Intel.
- Interoperability with the ScriptServer PAN, the enterprise printing solution for Windows Server 2000/2003, Linux, and several flavors of Unix. (See below.)
- Support for creating PDF files in ScriptServer repositories*.
- Integration with the ScriptServer PDF Broker, allowing full-featured electronic distribution of your OpenVMS documents to e-mail, archives, and Windows-based post-processing. (See below.)
- Support for creating Queue Manager message logs for debugging purposes.

Please see the following sections for information on using these new features.

* Requires *Ghostscript* open source software.

Corrections

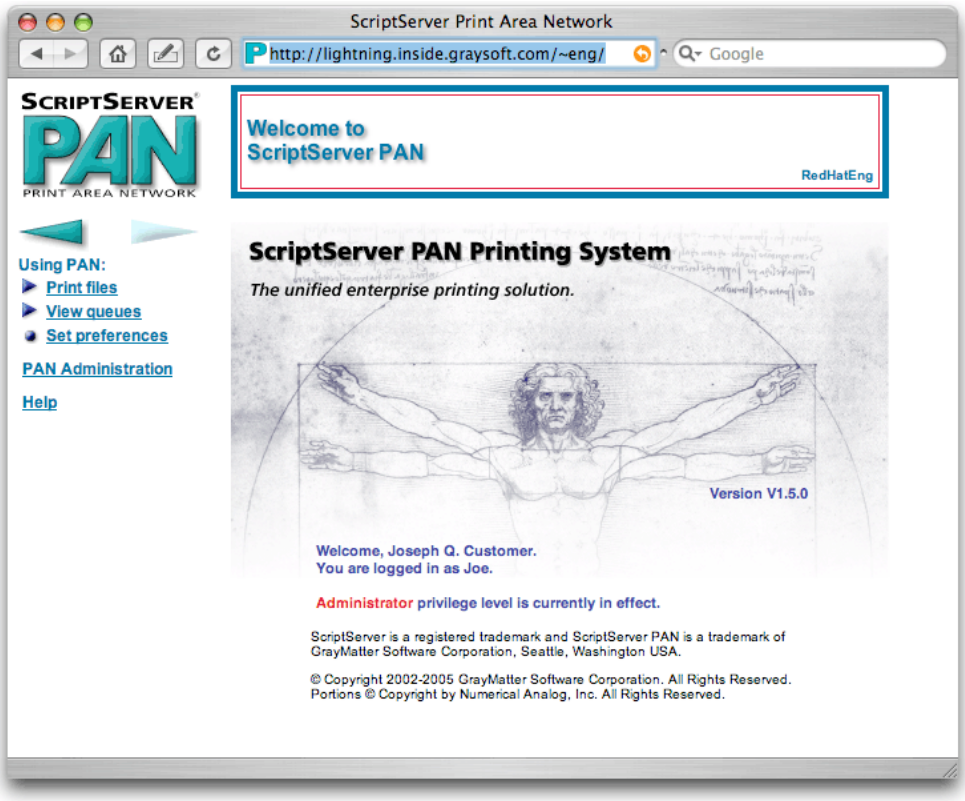
Following is a list of the more significant corrections have been made to the software.

- Improved error logging for problems with intermediate spool files
- Improved compatibility with HP-standard PRINT PARAMETERS when specifying duplexing via the SIDES parameter
- A problem with non-robust LPD compatibility has been corrected.
- A compatibility issue with some Xerox (formerly Tektronix) Phaser printers (and other Level 3 printers with Kanji font support) has been corrected.
- Parameter parsing has been improved such that SCRIPT_SETTINGS can be specified by way of the SSV$queue_PARAMETERS logical name.
- A problem with printer capability detection on certain HP LaserJet model printers has been corrected.
- TCP/IP port numbers can now be specified as part of the “/ON” qualifier when defining queues. Formerly, this required a logical name definition if it was not one of the well-known printer ports that are scanned in “Auto” TCP/IP compatibility mode.
- The “TELNET” TCP/IP compatibility mode name has been deprecated in favor of the more accurate definition “STREAM”.

Interoperability with ScriptServer PAN Software

About ScriptServer PAN

ScriptServer PAN is a distributed network printing and output management system. It provides sophisticated electronic forms, unified network queues, and a universal printer driver for the enterprise. The ScriptServer PAN master server runs on the Microsoft Windows 2000/2003 Server, Linux, HP-UX, AIX, Solaris, and Tru64 operating systems. PAN Printing clients include the above operating systems, Microsoft Windows, and any network-connected computer than supports the industry-standard LPR/LPD protocol via PAN's LPD Gateway feature. PAN is administered through a web browser interface, or by the command line.



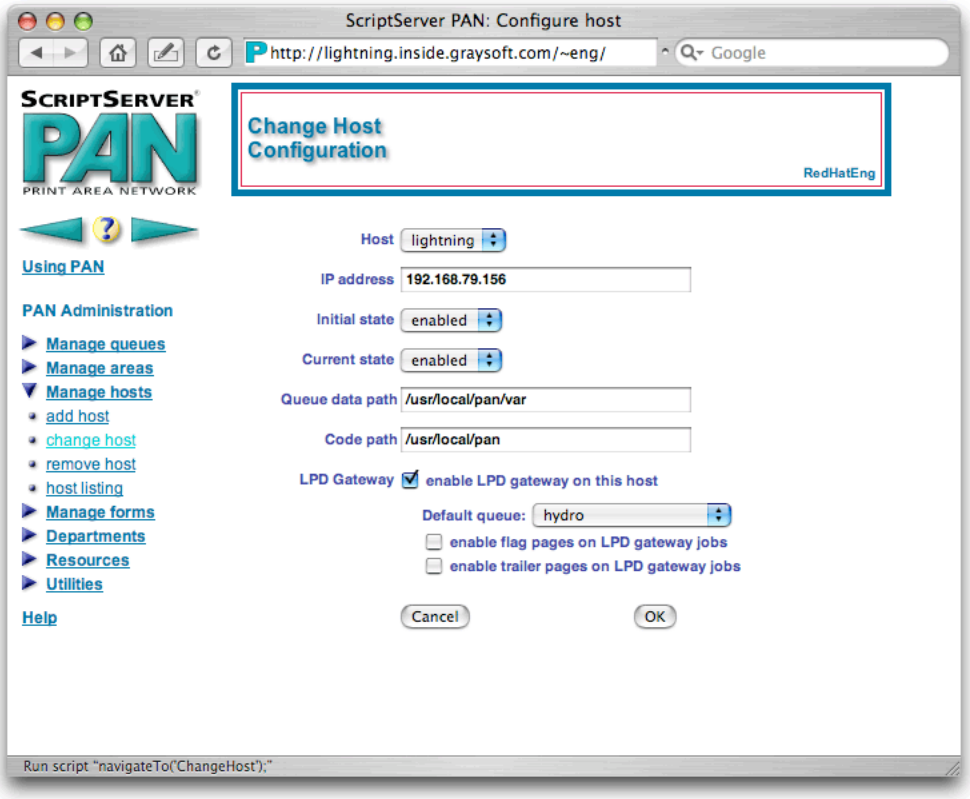
The ScriptServer PAN Browser Interface Welcome Screen

Integrating with ScriptServer PAN

ScriptServer for OpenVMS V6.0 provides the ability to communicate with ScriptServer PAN through its LPD Gateway functionality. While ScriptServer for OpenVMS has always been compatible with PAN when the LPD protocol is used, the full integration available with this release allows ScriptServer for OpenVMS to query ScriptServer PAN for details about its configuration.

Note

Full integration requires ScriptServer PAN version 1.5 or later, and that the LPD Gateway feature is enabled on the remote ScriptServer PAN host. The LPD Gateway is enabled in the PAN Administration > Manage hosts > Change host screen in the PAN browser interface.



The ScriptServer PAN Host Configuration Screen

This integration is enabled by using the reserved name “SSV$PAN” as the remote queue name on a ScriptServer queue that is using the LPD protocol. For example, to create a queue name “PANQUEUE” on a host named “linuxbox.mydomain.com” that is running the ScriptServer PAN V1.5 software, use the command:

```
$ INIT/QUEUE/ON="SSV$PAN@linuxbox.mydomain.com"/PROC=SSV$SMB/LIBR=SSV$DEVCTL.TLB PANQUEUE
```

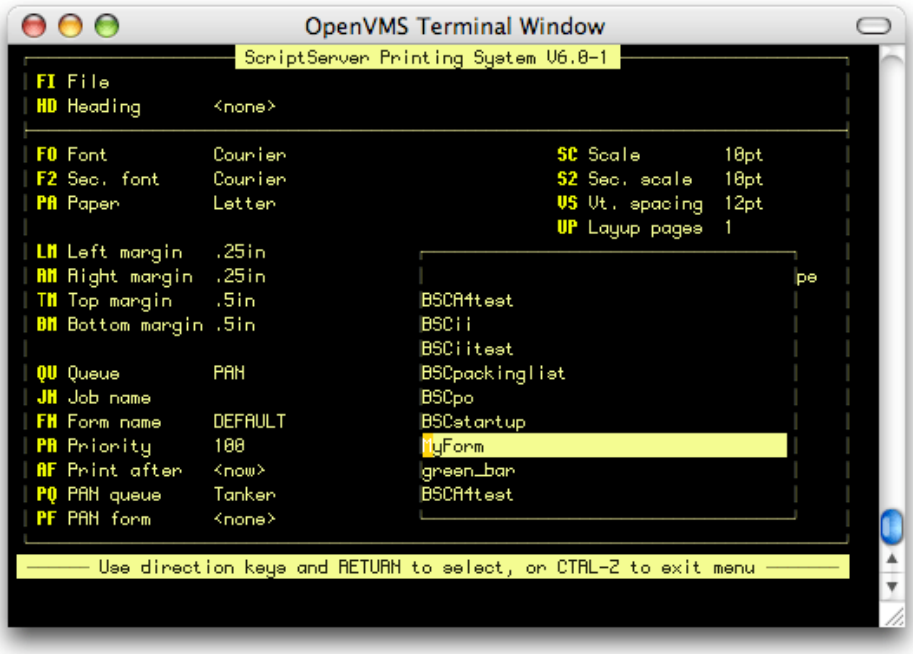
If created properly, the startup message sent to OPCOM will show the queue as communicating with the ScriptServer PAN Gateway, e.g.:

```
$ START/QUEUE PANQUEUE
%%%%%%%%%%  OPCOM  31-OCT-2005 14:49:57.38  %%%%%%%%%%
Message from user SYSTEM on SQUALL
%SSV-I-LICENSEE, ScriptServer software licensed to GRAYMATTER SOFTWARE CORP.
%SSV-I-STARTING, Starting queue PANQUEUE on ScriptServer PAN Gateway at 1.2.3.242
%SSV-I-PROTOCOL, TCP/IP protocol compatibility mode set to LPD
%SSV-I-BCSTATUS, Backchannel is disabled
```

Note

You must use the REPLY/ENABLE command to view messages sent to operators by way of OPCOM.

When a ScriptServer PAN-compatible queue is started, it obtains the PAN installation name, a list of the defined queues, and a list of the defined forms from the remote PAN installation. This information is saved in text files in the SCRIPTSERVER: directory. These files are consulted by the SCRIPT Facility so that the remote PAN queues and forms can be accessed through SCRIPT.



SCRIPT Facility with menu of ScriptServer PAN form names

Accessing ScriptServer PAN Queues and Forms

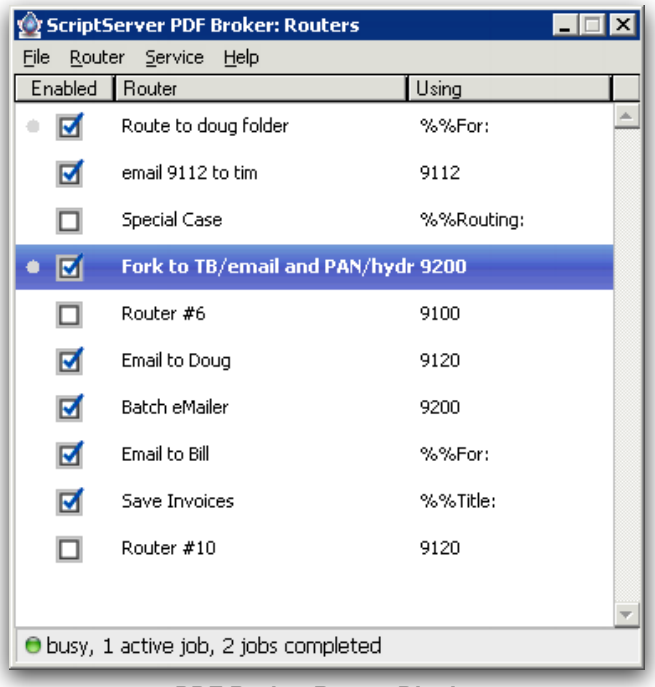
ScriptServer PAN queues and forms can also be accessed using two new parameters to the DCL PRINT command: PAN_QUEUE and PAN_FORM. For example, in the SCRIPT screen capture above, the remote PAN queue is “Tanker”, and the currently selected form name is “MyForm.” To select the same results with the PRINT command in DCL, you would enter:

```
$ PRINT/QUEUE=PAN/PARAM=(PAN_QUEUE="Tanker",PAN_FORM="MyForm") MYFILE.TXT
```

For more information about ScriptServer PAN, visit www.graysoft.com/products/pan.

PDF Broker Overview

ScriptServer PDF Broker is a Windows-based software product that converts and distributes documents according to a user-defined set of rules, called “routers.” It is compatible with any PostScript-generating printer driver, such as ScriptServer for OpenVMS, and allows you to convert print streams to PDF format and distribute the PDF files to e-mail, copy them to folders, and/or post-process them using DOS commands or .BAT batch files.



PDF Broker Router Display

The PDF Broker allows the creation of two general types of routers: port-based, which performs its actions based on the TCP/IP port number that the data is received on; and comment-based, which acts based on the values of DSC-compatible PostScript comments. In the case of comment-based routers, the data is received over the general-purpose “default service port”, which is port 8899 by default.

The comments that may be used for routing decisions are (except for one) based on the specifications published by Adobe Systems for the PostScript Document Structuring Conventions (DSC):

- `%%For` – the author of the document, typically the username when the document was created
- `%%Creator` – the application that created the document
- `%%CreationDate` – the date and time the document was created or printed
- `%%Title` – the document’s title or the filename that it is stored under
- `%%Routing` – arbitrary routing information
- `%%SSV_UserData` – ScriptServer-specific comment allowing arbitrary data to be passed

ScriptServer for OpenVMS V6.0 now generates these PostScript comments to provide the additional information to the Broker for making routing decisions. Additionally, information can be passed from the OpenVMS command line using new PRINT parameters that allow you to pass information, such as destination e-mail address, directly from the DCL command line. For more information, see “Using the PDF Broker PRINT Parameters”, below.

Creating PDF Broker Compatible Queues

When creating ScriptServer queues that communicate with PDF Broker, the queues’ TCP/IP compatibility mode is set to “BROKER”, and the port number used depends on how you want the jobs to be processed by the Broker. If the queue is to send the data to a comment-based router, it would use the default service port, usually 8899; otherwise it would use the port number specified when creating the port-based router in the Broker.

For example, to create a queue named EMAILJOE to send print files to a Broker router at TCP/IP address 192.0.0.100 processing jobs on port 9123:

```
$ DEFINE/SYS SSV$192.0.0.100_TCPIP_PROTOCOL BROKER
$ DEFINE/SYS SSV$192.0.0.100_TCPIP_PORT 9123
$ INIT/QUEUE/START/ON=”192.0.0.100”/PROC=SSV$SMB/LIBR=SSV$DEVCTL EMAILJOE
```

The PDF Broker supports the “Special Case Router”, which allows ad hoc specification of e-mail routing information by printing clients at print submission time. In OpenVMS, this is done with ScriptServer using the PRINT command.

Using the PDF Broker PRINT Parameters

Queues that direct output to the PDF Broker work the same as non-broker queues, using either the standard VMS PRINT command or the SCRIPT Facility supplied with ScriptServer. Additional new features allow you to access specific features of the Broker, depending on your particular needs. For example, the Broker supports a “special case router” which is used to e-mail the resulting PDF file according to the “%%Routing” comment as intended in the Document Structuring Conventions. This is accomplished using the ROUTING parameter to the PRINT command, such as:

```
$ PRINT/QUEUE=BROKER/PARAM=ROUTING="joe@mydomain.com" MYFILE.TXT
```

The special-case router is configured as follows in the Broker:

- "Incoming data has the comment %%Routing which is not blank"
- "e-mail the file to $routing"

Passing Data to the Broker from the Command Line

ScriptServer V6.0 introduces a new print parameter, USERDATA, to pass information to the Broker. It can be used either to pass a value to be used in an e-mail message field or as part of a post-processing command. In the example:

```
$ PRINT/QUEUE=BROKER/PARAM=USERDATA="myinfo" MYFILE.TXT
```

the text string “myinfo” is passed to the Broker in a “%%SSV_UserData” comment. It is then available to be used by the router that processes the job in the form of the $userdata placeholder.

If you want to pass more that one piece of information to be used independently, you may further break down the user-supplied data passed via the USERDATA parameter. This is accomplished by separating the individual pieces with the vertical bar character (“|”). Up to nine fields can be passed in this way, and accessed from the Broker using the $userfield*n* placeholders, where *n* is a number from 1 to 9. For example, suppose you want to pass a sender address and a brief message to be used as the body of the e-mail message in the command line:

```
$ PRINT/QUEUE=BROKER/PARAM=USERDATA=”bsmith@mydomain.com|Do not reply.” myfile.txt
```

In this example, the text “bsmith@mydomain.com” would be available as the $userfield1 placeholder, and “Do not reply.” would be available as the $userfield2 placeholder.

Using Both PRINT Parameters Simultaneously

To conform with DCL parsing rules, when you want to use both the ROUTING and USERDATA parameters, you must use parentheses to enclose the list and commas to separate individual parameters. For example:

```
$ PRINT/PARAM=(ROUTING="jdoe@mydomain.com",USERDATA="Call me at 555-9876.") myfile.txt
```

Creating PDF Files with ScriptServer Repository Queues

ScriptServer for OpenVMS software can now use Ghostscript to convert PostScript files to PDF files in repository queues. Ghostscript is open source software licensed under the GPL. It is a PostScript interpreter that can be used to convert PostScript language files into other formats. When configured as a repository queue, the ScriptServer symbiont can now spawn a process that uses Ghostscript to convert the output file to PDF format.

To use Ghostscript, ScriptServer must know the location of the executable binary. The default location of Ghostscript on VMS systems is specified with the logical name GS_BIN, which by default would contain the Ghostscript executable in the file GS.EXE. If Ghostscript is installed in this manner, nothing further needs to be done for ScriptServer to use it. Otherwise, you must provide the location and name of the Ghostscript executable using the logical name SSV$GHOSTSCRIPT_BINARY.

For example, if Ghostscript is installed with the name GS.EXE_AXP in a DKA100:[GS], define the logical name as follows:

```
$ DEFINE/SYS SSV$GHOSTSCRIPT_BINARY DKA100:[GS]GS.EXE_AXP
```

New Queue Manager Message Logging

ScriptServer now supports the logging of all messages send to and received from the OpenVMS Queue Manager. This feature allows us to provide improved support of the product, and should not be needed on a day-to-day basis. To enable Queue Manager message logging, define a logical name in the form SSV$queue_MESSAGE_LOGFILE that equates to the name of the file to which messages are to be logged. For example, to have a queue named LJ5000 log to a file named LJ5.LOG, define a logical name as follows:

```
$ DEFINE/SYS SSV$LJ5000_MESSAGE_LOGFILE SCRIPTSERVER:LJ5.LOG
```