



# Software Product Description

**PRODUCT NAME:** VSI Distributed Queuing Service for OpenVMS

**SPD DO-DVDSPD-00A**

## DESCRIPTION

This document describes the VSI Distributed Queuing Service (DQS) for OpenVMS.

VSI Distributed Queuing Service (DQS) uses the DECnet networking system to extend the standard OpenVMS queue system to enable users to:

- Print jobs on printers connected to systems other than their own
- Show the status of jobs on those systems
- Cancel their jobs on those systems
- Change the specifications of their jobs on those systems

Any node where a print request originates is called a client. Any node with an attached printer that performs the printing is called a server. Any node with DQS software can be configured to operate as only a client or as both a client and a server. The DQS software does not limit the number of client or server nodes or queues. The system manager creates the queues and establishes the correspondence between client queues and queues on server nodes. A queue on a server node can accept jobs from queues on multiple client nodes.

## FEATURES

VSI DQS for OpenVMS provides the following features:

- Provides an easy means of printing from systems that do not have printers.
- Can be used in any DECnet networking environment. Both Local Area Networks and Wide Area Networks are supported. DQS supports DECnet Phase V full-name functionality.
- Allows multiple OpenVMS systems to share expensive or unique printers.
- Does not limit the users choice of printing equipment; it can work with standard OpenVMS symbionts and most user-written or user-modified symbionts.
- Provides completely transparent support for the following qualifiers of the OpenVMS PRINT command:

/BACKUP	/BEFORE	/BURST	/BY_OWNER	/CONFIRM
/CHARACTERISTICS	/COPIES	/CREATED	/DEVICE	/EXCLUDE
/EXPIRED	/FEED	/FLAG	/IDENTIFY	/JOB_COUNT
/LOWERCASE	/MODIFIED	/NAME	/NOTE	/QUEUE
/REMOTE	/RESTART	/PAGES	/PASSALL	/SETUP
/SINCE	/SPACE	/TRAILER	/USER	

All other OpenVMS PRINT qualifiers are supported, with slight differences that reflect DQS' distributed environment.

- If the DQS server is temporarily inaccessible when a print command is issued, the DQS client will attempt to transfer the job for printing after the DQS server again becomes available.
- If a printer becomes unavailable, the corresponding DQS server queue can be configured to direct print jobs to a different DQS server queue.
- DQS software can send notification to the user after a print job has been completed.
- Additional queues can be added and queue attributes changed without reinstalling the DQS software.
- Additional DQS nodes can be added to an existing network of DQS nodes without reinstalling the software on the existing nodes.
- DQS software can be configured to limit access to servers.
- DQS software can be configured to keep records of use.
- DQS commands can be used on non-DQS queues.

## HARDWARE REQUIREMENTS

### *Processors Supported:*

VSI DQS runs on HPE Integrity servers and HPE AlphaServer systems supported on VSI OpenVMS. Refer to the latest VSI OpenVMS Integrity Software Product Description for more information about supported servers.

- VSI DQS for Integrity is supported on these HPE Integrity servers:
  - rx1600
  - rx2600, rx2620, rx2660
  - rx3600
  - rx6600
  - rx7640
  - rx8640
  - rx2800 i2, rx2800 i4
  - BL860c i2, BL860c i4
  - BL870c i2, BL870c i4
  - BL890c i2, BL890c i4
- VSI DQS for Alpha is supported on these HPE AlphaServer systems:
  - AlphaServer DS10, DS10L
  - AlphaServer DS15
  - AlphaServer DS20, 20E, 20L
  - AlphaServer DS25
  - AlphaServer ES40
  - AlphaServer ES45
  - AlphaServer ES47
  - AlphaServer ES80<sup>1</sup>
  - AlphaServer GS80<sup>1</sup>
  - AlphaServer GS160<sup>1</sup>
  - AlphaServer GS320<sup>1</sup>
  - AlphaServer GS1280<sup>1</sup>

### *Processor Restrictions:*

An Ethernet connection is required for each processor that uses DQS. That processor must support the Ethernet boards supported by DECnet for OpenVMS.

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<sup>1</sup> System support is anticipated, pending completion of testing.

*Disk Space Requirements on an HPE Integrity Server (Block Cluster Size = 1):*

The following counts refer to the disk space required on the HPE Integrity server system disk. Notice that the sizes listed are approximate; actual sizes may vary depending on your system environment, configuration, and software options.

- Disk space required for kit installation: 3,700 blocks (1.9 MB)
- Disk space required for use (permanent): 3,400 blocks (1.7 MB)

*Disk Space Requirements on an HPE AlphaServer System (Block Cluster Size = 1):*

The following counts refer to the disk space required on the HPE AlphaServer system disk. Notice that the sizes listed are approximate; actual sizes may vary depending on your system environment, configuration, and software options.

- Disk space required for kit installation: 4,500 blocks (2.3 MB)
- Disk space required for use (permanent): 2,300 blocks (1.2 MB)

## **SOFTWARE REQUIREMENTS**

VSI DQS for OpenVMS requires the following OpenVMS software:

- VSI OpenVMS Integrity Version 8.4-1H1 or higher.
- VSI OpenVMS Alpha Version 8.4-2L1 or higher

## **SOFTWARE LICENSING**

A software license is required in order to use VSI DQS software.

- On VSI OpenVMS Integrity, each Per-Socket License (PSL) allows any number of individuals to use VSI DQS at the same time, with one PSL license required for each processor core running OpenVMS.
- On VSI OpenVMS Alpha, a license for VSI DQS is included in the VSI OpenVMS **ALPHA-LP PAK** that is included with the purchase of a support contract for VSI OpenVMS Alpha.

Version update licenses are not available. Rights to use future revisions of VSI DQS are available only through a Support Agreement or through a new license purchase.

For more information about OpenVMS licensing terms and policies, contact your VSI account representative. Information is also available at the following website: <http://vmssoftware.com/services>

## **LICENSE MANAGEMENT FACILITY SUPPORT**

VSI DQS for OpenVMS supports the *OpenVMS License Management Facility*. For more information about the License Management Facility, refer to the *VSI OpenVMS License Management Utility Manual*.

## **CLUSTER ENVIRONMENT**

This layered product is fully supported when installed on any valid and licensed OpenVMS Cluster configuration, which is fully described in the *OpenVMS Cluster Software Product Description* (SPD# DO-VIBHAA-032). See the **HARDWARE REQUIREMENTS** section in this document for hardware requirements.

## **GROWTH CONSIDERATIONS**

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

## ORDERING INFORMATION

VSI DQS for OpenVMS software is available via electronic download from VSI's secure ftp site. Licenses are available as electronic licenses (E-LTU) or physical licenses (P-LTU).

*For VSI OpenVMS Integrity:*

VSI Part Number	Description
<b>Electronic Licenses (E-LTU)</b>	
SL-LIDQ1E-13V	VSI DQS Distrib Queue PSL 1 Core Server 1 E-LTU units
SL-LIDQ2E-13V	VSI DQS Distrib Queue PSL 2 Core Server 1 E-LTU units
SL-LIDQ4E-13V	VSI DQS Distrib Queue PSL 4 Core Server 1 E-LTU units
SL-LIDQ8E-13V	VSI DQS Distrib Queue PSL 8 Core Server 1 E-LTU units
<b>Physical Licenses (P-LTU)</b>	
SL-LIDQ1P-13V	VSI DQS Distrib Queue PSL 1 Core Server 1 P-LTU units
SL-LIDQ2P-13V	VSI DQS Distrib Queue PSL 2 Core Server 1 P-LTU units
SL-LIDQ4P-13V	VSI DQS Distrib Queue PSL 4 Core Server 1 P-LTU units
SL-LIDQ8P-13V	VSI DQS Distrib Queue PSL 8 Core Server 1 P-LTU units

*For VSI OpenVMS Alpha:*

A license for VSI DQS is included in the VSI OpenVMS **ALPHA-LP PAK** that is included with the purchase of a support contract for VSI OpenVMS Alpha. The support contract also includes the **ALPHA-SYSTEM PAK** that enables the base VSI OpenVMS Alpha operating system. Contact VSI at [info@vmssoftware.com](mailto:info@vmssoftware.com) for more information about ordering VSI OpenVMS DQS for use on an Alpha system.

## SOFTWARE PRODUCT SERVICES

A variety of service options are available from VSI. For more information, contact your VSI account representative or distributor. Information is also available at the following website: <http://vmssoftware.com/services>

## SOFTWARE WARRANTY

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

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Other names may be trademarks of their respective owners.

The VSI OpenVMS documentation set is available on DVD.