Software Product Description

PRODUCT NAME: HP SNA Remote Job Entry for OpenVMS, Version 1.8 **SPD 26.85.10**

This SPD describes *HP SNA Remote Job Entry for OpenVMS*, which is available for the OpenVMS I64, OpenVMS Alpha and OpenVMS VAX platforms. All information applies to all platforms unless otherwise indicated.

DESCRIPTION

HP SNA Remote Job Entry for OpenVMS (RJE) is a layered software product that allows suitably configured OpenVMS systems within a DECnet or TCP/IP network to function as an SNA/RJE workstation or group of workstations that can transmit batch jobs to an IBM® host and receive job output. The OpenVMS system user can prepare batch jobs in files, submit the jobs, and obtain the job output. Access to the IBM SNA host environment is via one of the following SNA server or gateway products:

TCP/IP or DECnet Connections

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

DECnet-Only Connections

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

By using batch interaction with the IBM host system, RJE can be used to submit data that can be used for periodic update of databases and other applications. Easily modified translation tables resident in either the SNA server or gateway convert ASCII code to a subset of IBM multinational EBCDIC for transmission to the IBM host, and from EBCDIC to ASCII on reception of job output.

Features

RJE offers the following features:

- Each workstation includes a console interface that an operator can use to communicate with the Job Entry System in the IBM host.
- RJE can support record sizes of up to 254 characters.
- RJE supports data compression on reader streams and data decompression on printer and punch streams.
- ASCII to EBCDIC translation is transparent to the user but can be inhibited with the /NOTRANSLATE qualifier on the ASSIGN command.

Sending Jobs to the IBM Host

Workstation users submit jobs to OpenVMS queues. The workstation transmits the queued jobs to the IBM host over the input streams associated with a queue.

This queuing technique makes it possible for many RJE users to submit jobs at the same time and to do so even if the workstation is inactive. When the operator sets the workstation on, the workstation transmits all the jobs in its queues. For each submitted job, the user specifies one or more files containing JCL (Job Control Language) statements, data, or programs.

Receiving Job Output

The IBM host returns job output to a workstation over various output streams. Each IBM output stream will have an OpenVMS directory assigned to it. As output from jobs is received on an output stream, it is assigned a file name identical to the name given to the job as it is executed in the IBM system (normally names are specified by user-supplied JCL). This mechanism allows easy identification of a particular job when several users share the same job stream. In the SNA gateway environment, job output may be directed to a system on the network other than the initiating system.

Managing the Workstation

OpenVMS users with the required privilege can issue a set of restricted commands to manage the workstation. These commands allow the user to initialize and control the workstation, and to communicate interactively with the IBM batch subsystem. The following functions are available:

- Set the workstation ON and OFF
- Stop the transmission of a job
- Collect logging information in a disk file
- Display status
- Obtain online help information

Specifying a Server

Users of *HP DECnet SNA Gateway for Channel Transport* or *HP DECnet SNA Gateway for Synchronous Transport* have the option of running the RJE Server on the SNA gateway (the default) or on the the OpenVMS node. By running the RJE Server on the OpenVMS node, you can utilize idle OpenVMS resources, thus reducing the SNA gateway's resource usage and increasing the throughput.

None of the other SNA servers and gateways—*HP SNA Server for OpenVMS VAX*, *HP SNA Server for OpenVMS Alpha*, *HP SNA Peer Server*, *HP SNA Access Server for Windows NT*, and *HP SNA Domain Gateway*—have internal RJE Servers and must therefore run the RJE Server on the OpenVMS node.

INSTALLATION

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

PREREQUISITE SUPPORT

For *HP SNA 3270 Remote Job Entry for OpenVMS* to be supported by HP, the customer must have a HP supported SNA server or gateway configuration and a valid support agreement for the selected gateway and Remote Job Entry for OpenVMS product.

HARDWARE REQUIREMENTS

Processors Supported

For information about supported processors, refer to the OpenVMS Operating System for I64, Alpha and VAX Software Product Description (SPD 82.35.xx and 25.01.xx).

Processors Not Supported

The RJE software is not supported on the following processors: VAX-11/750, VAX-11/780, and VAX-11/785.

Disk Space Requirements (Block Cluster Size = 1)

For Itanium-Based Systems:

Disk space required for installation:	6934 blocks (3.467 MB)
Disk space required for use (permanent):	5561 blocks (2.780 MB)

For Alpha-Based Systems:

Disk space required for installation:	3328 blocks (1.67 MB)
Disk space required for use (permanent):	1905 blocks (956 KB)

For VAX-Based Systems:

Disk space required for installation:	2910 blocks (1.46 MB)
Disk space required for use (permanent):	919 blocks (460 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 I64 version 8.2-1 or 8.3 (SPD 82.35.xx)

OpenVMS Operating System for Alpha Version 8.2 or 8.3 (SPD 82.35.xx)

OpenVMS Operating System for VAX Version 7.3 (SPD 25.01.xx)

Using *HP SNA Remote Job Entry* software 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 I64 and Alpha, SPD 25.03.xx for VAX)

Choose a networking option appropriate for the selected OpenVMS version from the following table:

OpenVMS	TCP/IP	DECnet IV	DECnet V
8.3 (I64)	5.6	8.3	8.3
8.2-1 (I64)	5.5	8.2-1	8.2-1
8.3 (Alpha)	5.6	8.3	8.3
8.2 (Alpha)	5.5	8.2	8.2
7.3 (VAX)	5.3	7.3	7.3

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

- *HP DECnet SNA Gateway for Channel Support (SPD 29.76.xx)*
- *HP DECnet SNA Gateway for Synchronous Transport (SPD 25.C6.xx)*
- *HP SNA Domain Gateway (SPD 38.69.xx)*
- *HP SNA Peer Server (SPD 51.08.xx)*
- *HP SNA Server for OpenVMS Alpha (SPD 70.89.xx)*
- *HP SNA Server for OpenVMS VAX (SPD 27.01.xx)*
- *HP SNA Access Server for Windows NT (SPD 64.79.xx)*

Cluster Environment

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

OpenVMS Cluster configurations are described in the OpenVMS Cluster Software Product Description (SPD 29.78.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 I64, Alpha and VAX Software Product Description (SPD 82.35.xx and 25.01.xx).

OPTIONAL SOFTWARE

This HP OpenVMS SNA access routine has been qualified and tested to run over the Data Access Incorporated (DAI) Mainframe Gateway for OpenVMS (MGO). Questions and issues related to the DAI MGO product are managed by DAI and are not an HP OpenVMS obligation.

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 I64, Alpha and VAX Software Product Libraries on CD-ROM.

The software documentation for this product is available as part of the OpenVMS I64, Alpha and VAX Online Documentation Libraries on CD-ROM. Documentation in hardcopy format can be ordered separately.

SOFTWARE LICENSING

License Management Facility Support

HP SNA Remote Job Entry for OpenVMS supports the OpenVMS License Management Facility (LMF). This facility allocates license units as follows:

- For OpenVMS Integrity, each Per Core License (PCL) allows any number of individuals to use the product at the same time, with one PCL license required for each processor core running OpenVMS.
- For OpenVMS Alpha and VAX, the Unlimited license allows any number of individuals to use the product at the same time.

ORDERING INFORMATION

Licenses

License types vary by platform.

HP OpenVMS Integrity Licenses[1]	
SNA RJE Per Core License (PCL)[2]:	BA482AC

[1]Update licenses not offered; updates available through SW Updates Service.

[2]Order one PCL license for each active processor core running OpenVMS.

HP OpenVMS Alpha Licenses	
SNA RJE Unlimited Use License	QL-10UA*-AA[1]
SNA RJE Unlimited Use Update License	QL-10UA*-RA[1]

[1]Asterisk denotes system tier. E=workgroup tier, G=departmental tier, Q=enterprise tier.

HP OpenVMS VAX Licenses	
SNA RJE Unlimited Use License	QL-453A*-AA[1]
SNA RJE Unlimited Use Update License	QL-453A*-RA[1]

[1]Asterisk denotes system tier. B=workgroup tier, 2=departmental tier, 5=enterprise tier.

Media and Documentation

Product binary kits and online documentation are delivered on consolidated media libraries. Delivery model varies by platform.

HP OpenVMS Integrity Media and Online Documentation[1]	
Foundation Operating Environment	BA322AA#AJR
Enterprise Operating Environment	BA323AA#AJR
Mission Critical Operating Environment	BA324AA#AJR

[1]Product ships on Layered Products Library media included in all Operating Environment media kits, available with initial OpenVMS OE order.

HP OpenVMS Alpha Media and Online Documentation	
Software Layered Products Library Package[1]	QA-03XAA-H8
Software Layered Products and Operating System Library Package [1]	QA-5G98A-H8

[1]Quarterly Software Updates Service is available.

HP OpenVMS VAX Media and Online Documentation	
Software Layered Products Library Package[1]	QA-5G88A-H8
Software Layered Products and Operating System Library Package [1]	QA-YL48A-H8

[1]Quarterly Software Updates Service is available.

HP OpenVMS Documentation (Printed)	
SNA Remote Job Entry Documentation	QL-453AA-GZ

HP OpenVMS Integrity SW Update[1]	
HP SNA Remote Job Entry VMS I64 Media	BA482AA

[1]For the OpenVMS Integrity platform, media updates are ordered by adding SW Updates Service to individual products. The above media product numbers must be pulled into an order if SW Updates Service is planned.

NOTE: If you are *adding* a layered product to an existing OpenVMS Integrity system and do not have the latest software revision on site, please contact your local Sales representative to request a Special Media kit.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from HP. For more information, contact your HP account representative or distributor. Information is also available on www.hp.com/hps/software.

SOFTWARE WARRANTY

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