

Software Product Description

PRODUCT NAME: POLYCENTER System Census,
Version 1.3

SPD 39.19.02

DESCRIPTION

POLYCENTER System Census product set is comprised of POLYCENTER System Census for OpenVMS AXP, OpenVMS VAX, and ULTRIX RISC, as well as a companion product, POLYCENTER System Census for PC LANs (SPD 50.72.xx). It is a configuration management and software asset management product within Digital's POLYCENTER portfolio of networked system management products. It provides automatic and periodic gathering of configuration information from worldwide, heterogeneous distributed systems, and presents this information in graphic displays and reports. This information can be used for critical system management functions such as asset management, inventory management, and resource utilization analysis.

POLYCENTER System Census collects, consolidates, and presents the configuration information from the OpenVMS AXP, OpenVMS VAX, or ULTRIX RISC systems within the enterprise. When POLYCENTER System Census is deployed with POLYCENTER System Census for PC LANs (SPD 50.72.xx), all MS-DOS®, Windows™, OS/2®, and Macintosh® PC information is also collected and consolidated with the enterprise data on an OpenVMS AXP or OpenVMS VAX system.

Specifically, POLYCENTER System Census provides the user with the ability to:

- Discover, identify, and collect the configuration information from enterprisewide systems through software agents running on OpenVMS AXP, OpenVMS VAX, and ULTRIX RISC systems.
- Consolidate and organize the collected data from OpenVMS AXP, OpenVMS VAX, and ULTRIX systems using an SQL compliant database (Rdb/VMS for OpenVMS AXP and OpenVMS VAX. In addition, information from MS-DOS and Windows, OS/2, and Macintosh PC clients running in the PATHWORKS for DOS or Novell® NetWare® PC LANs can also be consolidated into this database by installing a companion product, the POLYCENTER System Census for PC LANs (SPD 50.72.xx). The consolidated SQL compliant database provides the ability to augment the collected data with user-defined data as well as

the ability to query and extract the data using a variety of SQL and 4GL tools.

- Navigate through and view the consolidated configuration information through a graphical user interface (GUI). A DECwindows Motif® based GUI on an OpenVMS AXP or OpenVMS VAX system allows you to look at data from OpenVMS AXP, OpenVMS VAX systems, and ULTRIX RISC systems, plus MS-DOS, OS/2, Macintosh, and Windows PCs.

The rest of this document describes the POLYCENTER System Census for OpenVMS AXP, OpenVMS VAX, and ULTRIX RISC systems. Please refer to the Software Product Description (SPD 50.72.xx) for the description of the POLYCENTER System Census for PC LANs.

AGENTS

A POLYCENTER System Census Agent runs on each OpenVMS AXP, OpenVMS VAX, or ULTRIX RISC system from which the configuration data is to be collected. The configuration data collected in this release of the software includes:

- Machine Group (a tightly or loosely coupled group of machines, for example, a VAXcluster system)
- Machine (a physical platform running an operating system)
- Processor (the CPU(s) that actually runs the machine)
- Memory (the physical memory of a machine)
- Adapter (the physical adapters on the machines' buses)
- Controller (a network or device controller)
- Disk (physically connected)
- Tape (physically connected)
- Peers (HSC and ISE information for OpenVMS, ISE only for ULTRIX RISC)
- Servers (accessible PrintServers)
- Group (a group of users on a machine)

- User (user account information on a machine)
- User/Group (user-group relationship)
- Installed Software (operating system and layered product software)
- Licenses (from the LMF database)
- Queues (queues set up on a machine)
- Filesystem (the software representation of a mounted and formatted disk or group of disks)
- Mountinfo (information that links filesystems and associated disk(s) to the machine(s) that the filesystem is mounted on)
- Network (network information for machine(s) and VAXcluster system(s))

Once installed and started, the Agent on each system acts as a configuration data server waiting for requests coming from the POLYCENTER System Census Consolidator. The OpenVMS AXP and OpenVMS VAX Agents require DECnet and the ULTRIX RISC Agent requires TCP/IP for client communications.

CONSOLIDATOR

The Consolidator requests configuration data from multiple Agents and consolidates the data in an SQL compliant database. Rdb/VMS is used by the OpenVMS VAX and OpenVMS AXP Consolidators as their database. The Consolidator is given a user-defined collection schedule and the set of systems from which to consolidate the data. DECnet transport is used to consolidate data from target systems. If used with POLYCENTER System Census for PC LANs, DECnet or TCP/IP can be used to consolidate data from the PC LANs.

The consolidated data can be used for analysis, report generation, or graphical visualization using the Graphical User Interface (GUI). Once the database has been loaded, the user can query and generate extensive reports using SQL or 4GL tools available on the system or use the basic reporting capability provided by the Consolidator and the GUI.

The Consolidator database can maintain multiple versions of data from each Agent, providing a history of configuration changes. The number of versions of data kept for each Agent is user selectable.

GRAPHICAL USER INTERFACE (GUI)

POLYCENTER System Census GUI is a DECwindows Motif-based graphical user interface that displays the stored information from the Consolidator-generated SQL compliant database. The user can navigate within the enterprisewide configuration data and obtain various categories of configuration information such as hardware, software, user, license, filesystem, and queues.

A context-sensitive online Motif Help system is provided to help the user during navigation. The GUI allows the user to extract the configuration data into a variety of forms: hardcopy PostScript®, text, and compound document (DDIF) formats. It also allows users to augment the configuration data with user-supplied data, enabling the users to attach Configuration Notes to the automatically collected data.

HARDWARE REQUIREMENTS

Note: It is recommended that you use a system more powerful than a VAXstation 3100 for the Consolidator and GUI.

Alpha AXP Processors Supported

Alpha AXP: DEC 3000 Model 400 AXP Workstation,
 DEC 3000 Model 400 AXP Server,
 DEC 3000 Model 500 AXP Workstation,
 DEC 3000 Model 500 AXP Server

 DEC 4000 Model 610 AXP System

 DEC 7000 Model 610 AXP System

 DEC 10000 Model 610 AXP System

VAX Processors Supported

VAX: VAXft Model 110,
 VAXft Model 310,
 VAXft Model 410,
 VAXft Model 610,
 VAXft Model 612

 VAX 4000 Model 100,
 VAX 4000 Model 200,
 VAX 4000 Model 300,
 VAX 4000 Model 400,
 VAX 4000 Model 500,
 VAX 4000 Model 600

 VAX 6000 Model 200 Series,
 VAX 6000 Model 300 Series,
 VAX 6000 Model 400 Series,
 VAX 6000 Model 500 Series,
 VAX 6000 Model 600 Series

 VAX 7000 Model 600 Series

 VAX 8200, VAX 8250, VAX 8300,
 VAX 8350, VAX 8500, VAX 8530,
 VAX 8550, VAX 8600, VAX 8650,
 VAX 8700, VAX 8800, VAX 8810,
 VAX 8820, VAX 8830, VAX 8840

ULTRIX RISC-Based Processors Supported

	VAX 9000 Model 110, VAX 9000 Model 210, VAX 9000 Model 300 Series, VAX 9000 Model 400 Series		
	VAX 10000 Model 600 Series		
	VAX-11/730, VAX-11/750, VAX-11/780, VAX-11/785		
MicroVAX:	MicroVAX II, MicroVAX 2000, MicroVAX 3100 Model 10/10E, MicroVAX 3100 Model 20/20E, MicroVAX 3100 Model 30, MicroVAX 3100 Model 40, MicroVAX 3100 Model 80, MicroVAX 3100 Model 90, MicroVAX 3300, MicroVAX 3400, MicroVAX 3500, MicroVAX 3600, MicroVAX 3800, MicroVAX 3900		DECstation: DECstation 2100, DECstation 3100, DECstation 3100s, Personal DECstation 5000 Model 20/25 HX, Personal DECstation 5000 Model 20/25 MX, Personal DECstation 5000 Model 20/25 TX, Personal DECstation 5000 Model 20/25 PXG+, Personal DECstation 5000 Model 20/25 PXG Turbo+ DECstation 5000 Model 120/125/133 CX, DECstation 5000 Model 120/125/133 HX, DECstation 5000 Model 120/125/133 MX, DECstation 5000 Model 120/125/133 PX, DECstation 5000 Model 120/125/133 TX, DECstation 5000 Model 120/125/133 PXG, DECstation 5000 Model 120/125/133 PXG+, DECstation 5000 Model 120/125/133 PXG Turbo, DECstation 5000 Model 120/125/133 PXG Turbo+ DECstation 5000 Model 200 CX, DECstation 5000 Model 200 HX, DECstation 5000 Model 200 MX, DECstation 5000 Model 200 PX, DECstation 5000 Model 200 TX, DECstation 5000 Model 200 PXG, DECstation 5000 Model 200 PXG+, DECstation 5000 Model 200 PXG Turbo, DECstation 5000 Model 200 PXG Turbo+ DECstation 5000 Model 240 HX, DECstation 5000 Model 240 MX, DECstation 5000 Model 240 TX, DECstation 5000 Model 240 PXG+, DECstation 5000 Model 240 PXG Turbo+
VAXstation:	VAXstation II, VAXstation 2000, VAXstation 3100 Model 30, VAXstation 3100 Model 38, VAXstation 3100 Model 40, VAXstation 3100 Model 48, VAXstation 3100 Model 76, VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 3540 VAXstation 4000 Model 60, VAXstation 4000 Model 90, VAXstation 4000 VLC		
VAXserver:	VAXserver 3100, VAXserver 3300, VAXserver 3400, VAXserver 3500, VAXserver 3600, VAXserver 3602, VAXserver 3800, VAXserver 3900 VAXserver 4000 Model 200, VAXserver 4000 Model 300, VAXserver 4000 Model 500 VAXserver 6000 Model 210, VAXserver 6000 Model 220, VAXserver 6000 Model 310, VAXserver 6000 Model 320, VAXserver 6000 Model 410, VAXserver 6000 Model 420, VAXserver 6000 Model 510, VAXserver 6000 Model 520, VAXserver 6000 Model 610, VAXserver 6000 Model 620, VAXserver 6000 Model 630		
		DECsystem:	DECsystem 3100, DECsystem 5000 Model 25, DECsystem 5000 Model 200, DECsystem 5000 Model 240, DECsystem 5100, DECsystem 5400, DECsystem 5500, DECsystem 5810, DECsystem 5820, DECsystem 5830, DECsystem 5840, DECsystem 5900

Processors Not Supported

MicroVAX I, VAXstation I, VAX-11/725,
VAX-11/782, VAXstation 8000

Processor Restrictions:

A TK50 tape drive is required for standalone MicroVAX
2000 and VAXstation 2000 systems.

Disk Space Requirements

Component		Req.Space
	Small Database	75,300 blocks
	Medium Database	225,000 blocks
	Large Database	430,000 blocks
Consolidator	Peak Installation	77,500 blocks
Agent on AXP	Peak Installation	8,800 blocks
Agent on VAX	Peak Installation	3,900 blocks
Agent on AXP	Permanent Space	2,500 blocks
Agent on VAX	Permanent Space	2,000 blocks
Agent on ULTRIX	/usr/kits	850 KB
Agent on ULTRIX	/usr/var/kits	5 KB
Agent on ULTRIX	/usr/kits for SCXMI110	1,000 KB

Note: PSC will install, on a user specified disk, a small, medium, or large capacity database which is selected by the user during installation. Disk space requirements are as specified above.

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description details any special hardware required by this product. When an Agent is installed in a VAXcluster, license is needed for each node where the Agent needs to be run.

* VAXcluster configurations are fully described in the VAXcluster Software Product Description (SPD 29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

OpenVMS AXP Agent

- OpenVMS AXP Version 1.5 or 6.1
- DECnet Phase IV or DECnet/OSI Version 5.8
- OpenVMS License Management Facility (LMF) Version 1.1

OpenVMS AXP Consolidator

- OpenVMS AXP Version 1.5 or 6.1
- DECnet Phase IV or DECnet/OSI Version 5.8
- DEC Rdb for OpenVMS AXP Version 6.0 (minimum run-time license)
- OpenVMS License Management Facility (LMF) Version 1.1

Note: See optional software for data collection from ULTRIX RISC Agents and PC LANs.

OpenVMS AXP GUI

- OpenVMS AXP Version 1.5 or 6.1
- DECwindows Motif Version 1.0, 1.1, or 1.2
- DEC Rdb for OpenVMS AXP Version 6.0 (minimum run-time license)
- OpenVMS License Management Facility (LMF) Version 1.1

OpenVMS VAX Agent

- OpenVMS VAX Version 5.5-2 - 6.0 or higher
- DECnet Phase IV or DECnet/OSI Version 5.8
- OpenVMS License Management Facility (LMF) Version 1.1

OpenVMS VAX Tailoring (Agents only):

The PSC Agent requires the following tailoring classes on OpenVMS VAX SYSTEMS:

- Network Support
- Bliss Require Files (only during installation)
- Programming Support (only during installation)
- System Programming Support (only during installation)

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

Note: Tailoring classes are not applicable to OpenVMS AXP systems.

OpenVMS VAX Consolidator

- OpenVMS VAX Version 5.5-2 - 6.0 or higher
- DECnet Phase IV or DECnet/OSI Version 5.8
- DEC Rdb for OpenVMS VMS Version 4.2 - 6.0 (minimum run-time license)
- OpenVMS License Management Facility (LMF) Version 1.1

Note: See optional software for data collection from ULTRIX RISC Agents and PC LANs.

OpenVMS VAX GUI

- OpenVMS VAX Version 5.5-2 - 6.0 or higher
- DECwindows Motif Version 1.0 - 1.2
- DEC Rdb for OpenVMS VMS Version 4.2 - 6.0 (minimum run-time license)

- OpenVMS License Management Facility (LMF) Version 1.1

ULTRIX RISC Agent

- ULTRIX Base Operating System Version 4.3
- TCP/IP Networking Utilities (UDTINET430 included with the ULTRIX Operating System)
- ULTRIX Communication Utilities (UDTCOMM430 included with the ULTRIX Operating System)
- ULTRIX License Management Facility (LMF)

OPTIONAL SOFTWARE

OpenVMS Consolidators

- POLYCENTER System Census for PC LANs (SPD 50.72.xx) to consolidate PC LAN data from Novell NetWare or Digital PATHWORKS for DOS environments.
- DEC TCP/IP Services Version 2.0 or higher, if you want to consolidate data from ULTRIX Agents or Novell NetWare PC LANs.

GROWTH CONSIDERATIONS

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

DISTRIBUTION MEDIA

VAX AND ULTRIX Systems

TK50 Streaming Tape

This product is also available as part of the OpenVMS Consolidated Software Distribution on CD-ROM.

The software documentation for this product is also available as part of the OpenVMS Online Documentation Library on CD-ROM.

Alpha AXP Systems

This product is distributed on the Digital CD-ROM Software Library for OpenVMS AXP.

ORDERING INFORMATION

An Agent license is required for each OpenVMS AXP, OpenVMS VAX and ULTRIX RISC node from which data needs to be collected.

One Consolidator can collect data from several OpenVMS AXP Agents, OpenVMS VAX Agents, ULTRIX RISC Agents, and PC LANs. The Consolidator can be bought either with an "Unlimited Use" license or with a "Concurrent Use" license, where each Agent node or PC LAN (defined as one LAN Auditor database) is treated as one "Concurrent Use". If a "Concurrent Use" license is bought for the Consolidator, one must buy enough license units for the Consolidator to cover all the Agents and PC LANs.

The GUI can also be bought with an "Unlimited Use" license or a "Personal Use" license. The "Unlimited Use" license allows an unlimited number of users to run the GUI simultaneously on a system. If a "Personal Use" license is bought for the GUI, one must buy enough license units to match the number of users using the GUI at the same time.

Alpha AXP Systems:

Software Licenses:

QL-2QLA*-* POLY SC AGT V/A
QL-2QMA*-* POLY SC CON V/A
QL-2QNA*-* POLY SC GUI V/A

Software Media: QA-2QMA*-H8

Software Documentation: QA-ML4A*-GZ
Software Product Services: QT-2QLA*-*
QT-2QMA*-*
QT-2QNA*-*

VAX Systems:

Software Licenses:

QL-ML1A*-* POLY SC AGT V/V
QL-ML4A*-* POLY SC CON V/V
QL-ML7A*-* POLY SC GUI V/V

Software Media: QA-ML4A*-*

Software Documentation: QA-ML4A*-GZ
Software Product Services: QT-ML1A*-*
QT-ML4A*-*
QT-ML7A*-*

Packaged Software Components:

QB-271AA-AA	POLY SC VAX/PC STARTER KIT provides everything to manage five systems and 50 PCs where the PCs are connected to a single PATHWORKS or Novell server, including: 1 QA-ML4AA-H5 OpenVMS VAX SERVER/GUI/AGENT media and documentation Kit 5 QL-ML1A9-AA OpenVMS VAX AGENT /CLIENT License 1 QL-ML4A9-AA OpenVMS VAX UNLIMITED CONSOLIDATOR License 2 QL-ML7AA-2B OpenVMS VAX PERSONAL GUI License 1 QB-22XAA-SA POLY SC PC LANs
QB-244AA-AA	POLY SC OpenVMS V/V PKG including: 1 QA-ML4AA-H5 OpenVMS VAX SERVER/GUI/AGENT media and documentation Kit 1 QL-ML1A9-AA OpenVMS VAX AGENT /CLIENT License 1 QL-ML4A9-AA OpenVMS VAX UNLIMITED CONSOLIDATOR License 1 QL-ML7AC-2B Single-user OpenVMS VAX PERSONAL GUI License

ULTRIX RISC-Based Systems:

Software Licenses:

QL-ML3A*-** POLY SC AGT U/R

Software Media: QA-ML6A*-**

Software Documentation: QA-ML4A*-GZ

Software Product Services: QT-ML3A*-**,

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

SOFTWARE LICENSING

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

License Management Facility Support:

This layered product set supports the OpenVMS License Management Facility on OpenVMS VAX and the ULTRIX License Management Facility on ULTRIX RISC and requires LMF.

For more information on the License Management Facility, refer to the appropriate OpenVMS (SPD 25.01.xx) or ULTRIX (SPD 26.40.xx) Operating System SPD or documentation.

SOFTWARE PRODUCT SERVICES

Digital provides rights to new version, software update and telephone support services. Advisory telephone support is available 9 a.m. to 5 p.m. through User Support and Helpdesk Support service offers. Please contact your local Digital office for more information.

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.

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