# Software Product Description

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**PRODUCT NAME:** POLYCENTER Common Agent Base Kit        SPD 43.40.01
for DEC OSF/1® AXP, Version 1.1

## INTRODUCTION

The POLYCENTER Common Agent Base Kit for DEC OSF/1 AXP provides management agent services that enable communications between management applications and distributed components and resources. Through the use of a consistent management interface, the distributed components and resources can provide management information and/or perform management functions without the component developer having to create a complete agent.

In other words, the POLYCENTER Common Agent is a switching box that translates management requests between management applications and managed resources over the Simple Network Management Protocol (SNMP).

The POLYCENTER Common Agent product is complementary to the existing POLYCENTER family of products and provides the management agent services for NAS products.

The POLYCENTER Common Agent Developer's Toolkit for DEC OSF/1 AXP is also available for developers of management code for system, network or application components and resources. Refer to the Software Product Description (SPD 43.41.xx) for more information about the POLYCENTER Common Agent Developer's Toolkit for DEC OSF/1 AXP.

The POLYCENTER Common Agent Base Kit and Developer's Toolkit are also available on RISC/ULTRIX.

## DESCRIPTION

The POLYCENTER Common Agent Base Kit for DEC OSF/1 AXP is a layered application that provides a common set of libraries and services to enable the remote management of objects. The POLYCENTER Common Agent Base Kit for DEC OSF/1 AXP software must reside on any system that makes use of the POLYCENTER Common Agent libraries.

Components of the POLYCENTER Common Agent Base Kit:

- SNMP Protocol Engine: Decodes management requests received over the Simple Network Management Protocol (SNMP) and dispatches these requests to management components via the POLYCENTER Common Agent interfaces. Encodes management responses from the management components and SNMP traps (enterpriseSpecific traps, coldStart, warmStart, authenticationFailure, linkUp and linkDown), and sends this management information to management applications over SNMP.

- Agent Library: Consists of a set of library routines that are linked with Protocol Engines and Managed Object Modules to transparently dispatch decoded management requests from protocol engines to the appropriate Managed Object Module by using information stored in the Managed Object Location Directory.

- Managed Object Location Directory (MOLD): Provides dynamic registration services for Managed Object Modules to declare the object classes that they support and provides directory services so that Protocol Engines may dispatch management operations to the appropriate Managed Object Module.

- Managed Object Support Services Routines (MOSS): Builds and reads variable length lists of variable length attributes, arguments, or variables according to the ASN.1 standard.

- Management Information Repository (MIR): An on-line, runtime, extensible repository containing information about managed object classes and their respective directives, notifications and attributes. The MIR is used by Protocol Engines to decode and encode management requests and is populated from management specifications or IETF Concise MIB definitions.

- POLYCENTER Common Agent MIB Translation Utility (MTU): Transforms an IETF MIB specification to a management specification that can be loaded into the POLYCENTER Common Agent MIR.

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- Management Information Repository Compiler (MIRC): Creates or updates the MIR from one or more POLYCENTER Common Agent management specifications.

- Managed Object Modules (MOMs): Processes dealing with the management of a managed object. MOMs provided with the POLYCENTER Common Agent for DEC OSF/1 AXP Base Kit include:

  — The Internet MOM provides managed object support for TCP/IP as specified in IETF RFC 1213, except that some read-write MIB objects are treated as read-only variables.

  — IEEE 802.5 Token Ring MOM provides managed object support for IEEE 802.5 Token Ring interface as specified in IETF RFC 1231.

  — FDDI MOM provides managed object support for Fiber Distributed Data Interconnect as specified in IETF RFC 1285, except that read-write MIB objects are treated as read-only variables.

  — MOMs can be dynamically installed without re-installing software or rebooting the system.

- Event Dispatcher (EVD): Processes event requests from the Managed Object Modules, and forwards these requests to the SNMP Protocol Engine for SNMP trap transmission to the target hosts.

**HARDWARE REQUIREMENTS**

Processor and/or hardware configurations as specified in the System Support Addendum.

**SOFTWARE REQUIREMENTS**

- DEC OSF/1 AXP Operating System

Refer to the System Support Addendum (SSA 43.40.00-x) for availability and required versions of prerequisite /optional software.

**SOFTWARE LICENSING**

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

*License Management Facility Support*

This layered product supports the DEC OSF/1 License Management Facility.

License units for this product are allocated on an Unlimited System Use basis.

For more information on the License Management Facility, refer to the DEC OSF/1 AXP Operating System Software Product Description (SPD 41.61.xx) or the Guide to Software Licensing in the DEC OSF/1 AXP Operating System documentation set.

**ORDERING INFORMATION**

Software Licenses: QL-00SA*-**
Software Media: QA-00SAA-H5
Software Documentation: QA-00SAA-GZ
Installation Guide: AA-PTE3A-TE
Software Product Services: QT-00SA*-**

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

**SOFTWARE PRODUCT SERVICES**

A variety of service options are available from Digital. For more information, 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.

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# System Support Addendum

**PRODUCT NAME:  POLYCENTER Common Agent Base Kit
for DEC OSF/1® AXP, Version 1.1**

SSA 43.40.01-A

## HARDWARE REQUIREMENTS

*Processors Supported*

Alpha AXP:    DEC 3000 Model 300 AXP Workstation,
DEC 3000 Model 300 AXP Server,
DEC 3000 Model 300L AXP Workstation,
DEC 3000 Model 300L AXP Server,
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 3000 Model 500X AXP Workstation,
DEC 3000 Model 500X AXP Server

DEC 4000 Model 610 AXP System

DEC 7000 Model 610 AXP System

DEC 10000 Model 610 AXP System

### Disk Space Requirements

*Disk space required for intallation of kit:*

| | |
|---|---|
| /usr = | 2238 KB |
| /usr/var = | 51 KB |

*Disk space required for use (permanent):*

| | |
|---|---|
| /usr = | 2238 KB |
| /usr/var = | 51 KB |

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

## SOFTWARE REQUIREMENTS

DEC OSF/1 AXP Operating System V1.2, V1.3

## OPTIONAL SOFTWARE

- POLYCENTER Framework (formerly DECmcc Director) V1.2 or V1.3 for ULTRIX
- POLYCENTER SNMP Manager 300 for ULTRIX V1.2
- SNMP-Based Managers
- POLYCENTER Network Manager 200 (formerly DECmcc BMS) V1.2 or V1.3 for ULTRIX

## 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

DEC OSF/1 Alpha AXP CD-ROM

## ORDERING INFORMATION

Software Licenses: QL-00SA*-**
Software Media: QA-00SAA-H5
Software Documentation: QA-00SAA-GZ
Installation Guide: AA-PTE3A-TE
Software Product Services: QT-00SA*-**

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

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.