Software Product Description

PRODUCT NAME: POLYCENTER Extended LAN Manager, Version 1.4   **SPD 38.67.05**
(Formerly DECmcc Extended LAN Manager)

OVERVIEW

POLYCENTER Extended LAN Manager Option Packages are OpenVMS and ULTRIX layered products that enable POLYCENTER Framework Family product users to configure, manage, monitor, and control LAN Bridge, DECbridge, and DECconcentrator 500 devices in the "Extended LAN" and FDDI network environment. The term LAN Bridge is used to refer to Digital Equipment Corporation's LAN Bridge 100, LAN Bridge 150, LAN Bridge 200, METROWAVE Bridge, and Chipcom®'s Ethermodem™ Broadband Bridge. The term DECbridge is used to refer to Digital Equipment Corporation's DECbridge 500 and 600 Series products.

The LAN Bridge and DECbridge products are the primary building blocks of the "Extended LAN" (Local Area Network) architecture. An Extended LAN is a collection of LANs that are interconnected and logically appear as one large Local Area Network. The DECconcentrator family of products is the primary building block of the FDDI network environment. Together these environments are physically and logically attached and extended via the DECbridge family of products. The DECbridge product line is the family of products which allow Ethernet and FDDI networks to communicate transparently.

The LAN Bridge and DECbridge products operate at the data link level, and FDDI DECconcentrators operate at the data link and physical link levels. Both product sets are transparent to upper level protocols.

PACKAGE OPTIONS

The POLYCENTER Extended LAN Manager package options can be added to selected POLYCENTER Framework Family products to provide management of LAN Bridges, DECbridges, and FDDI DECconcentrators. There are two POLYCENTER Extended LAN Manager license option packages.

- POLYCENTER Extended LAN Manager Access Module (AM)—provides management protocol support for, and user access to, LAN Bridges, DECbridges, and FDDI DECconcentrators. This package, added to either the POLYCENTER Framework or the POLYCENTER Network Manager 200 enables users to take full advantage of those products' integrated command set, graphic and command line user interfaces, and extensibility to register, monitor, and control devices supported by the AM and FM. This AM and FM license package also enables POLYCENTER users to customize alarm rules and generate performance statistics for the supported devices.

- POLYCENTER Extended LAN Manager Functional Module (FM)—can optionally be added to a POLYCENTER Framework. Used in conjunction with the POLYCENTER Extended LAN Manager AM package, it provides POLYCENTER Framework users with automatic device registration, FDDI ring map autotopology and LAN Bridge spanning tree autotopology supporting IEEE 802.1d spanning tree and Digital's LAN Bridge 100 spanning tree protocols.

Depending on the user's POLYCENTER configuration, an additional software license may be required. Refer to the *SOFTWARE REQUIREMENTS* section for more detail.

GENERAL CHARACTERISTICS

This release of POLYCENTER Extended LAN Manager is the release of software which supersedes the DECelms point product functionality for the POLYCENTER environment. The Extended LAN Manager AM and FM modules together provide additional functionality to DECelms.

The general characteristics of POLYCENTER Extended LAN Manager AM include:

- Remote management capabilities for FDDI and Ethernet devices on the same extended LAN

- Allows for observation, monitoring, and controlling of interconnected FDDI and Ethernet networks

- Ability to display and modify devices and lines on the LAN Bridge and DECbridge family of products

NOTE: This feature is unsupported on ULTRIX.

- Ability to display and monitor physical ports on the DECbridge 500 and 600 Series and DECconcentrator 500

- Ability to display spanning tree characteristics on the LAN Bridge and DECbridge family of products

NOTE: This feature is unsupported on ULTRIX.

- Ability to display and modify protocol database characteristics on LAN Bridge 200 and the DECbridge family of products

- Ability to display and modify forwarding database characteristics on the LAN Bridge and DECbridge family of products

- Ability to enable and disable lines on LAN Bridge and DECbridge products

- Ability to enable and disable physical ports on the DECconcentrator 500

- Ability to customize site specific alarms for the devices stored in the MIR (management information repository) for faults, errors, and changed information

- Display of data-link counters, status, and characteristics on LAN bridges, DECbridges, and DECconcentrators

- Ability to remotely, but on the same extended LAN, invoke a device's self-test capabilities

- Simultaneous management access by multiple users

- On-line HELP facility

- Similar display formats for all manageable devices

- Password protection for settable parameters (LAN Bridge 150, 200, DECbridge 500 and 600 Series, and DECconcentrator 500)

- Load and modify source address and protocol filtering tables (LAN Bridge 200 and DECbridge 500 and 600 Series)

- Display of Ethernet/802.3 network statistics (LAN Bridges and DECbridges)

- Display of Ethernet/802.3 network utilization statistics (LAN Bridge 200 and DECbridge 500 and 600 Series)

- Ability to display FDDI stations that adhere to the ANSI X3T9.5 Station Management (SMT) standard

The general characteristics of POLYCENTER Extended LAN Manager FM include:

- FDDI ring map autotopology

NOTE: This feature is unsupported on ULTRIX.

- Bridge spanning tree autotopology supporting IEEE 802.1d spanning tree and Digital's LAN Bridge 100 spanning tree protocols on the LAN Bridge and DECbridge family of products

NOTE: This feature is unsupported on ULTRIX.

- Autoregistration for LAN Bridges, DECbridges, DECconcentrators, and other FDDI devices that adhere to the ANSI X3T9.5 FDDI Station Management (SMT) standard

HARDWARE REQUIREMENTS

Processors Supported

OpenVMS-based Processors:

VAX:	VAXft Model 410, VAXft Model 610, VAXft Model 612
	VAX 4000 Model 300, VAX 4000 Model 400, VAX 4000 Model 500, VAX 4000 Model 600 VAX 4000 Model 700
	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 8600, VAX 8650, VAX 8700, VAX 8800, VAX 8810, VAX 8820, VAX 8830, VAX 8840
	VAX 9000 Model 110, VAX 9000 Model 210, VAX 9000 Model 300 Series, VAX 9000 Model 400 Series
MicroVAX:	MicroVAX 3300, MicroVAX 3400, MicroVAX 3500, MicroVAX 3600, MicroVAX 3800, MicroVAX 3900
VAXstation:	VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 3540
	VAXstation 4000 Model 60, VAXstation 4000 Model 90, VAXstation 4000 Model 90A

VAXserver: VAXserver 3400, VAXserver 3500,
VAXserver 3600, VAXserver 3602,
VAXserver 3800, VAXserver 3900

VAXserver 4000 Model 300,
VAXserver 4000 Model 500
VAXserver 4000 Model 600
VAXserver 4000 Model 700

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

ULTRIX-based Processors: RISC:

DECstation: DECstation 5000 Model 120/125/133/150
CX,
DECstation 5000 Model 120/125/133/150
HX,
DECstation 5000 Model 120/125/133/150
MX,
DECstation 5000 Model 120/125/133/150
PX,
DECstation 5000 Model 120/125/133/150
TX,
DECstation 5000 Model 120/125/133/150
PXG,
DECstation 5000 Model 120/125/133/150
PXG+,
DECstation 5000 Model 120/125/133/150
PXG Turbo,
DECstation 5000 Model 120/125/133/150
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 240/260 HX,
DECstation 5000 Model 240/260 MX,
DECstation 5000 Model 240/260 TX,
DECstation 5000 Model 240/260 PXG+,
DECstation 5000 Model 240/260 PXG
Turbo+

DECsystem: DECsystem 5000 Model 200,
DECsystem 5000 Model 240,
DECsystem 5100, DECsystem 5400,
DECsystem 5500, DECsystem 5810,
DECsystem 5900

Processors Not Supported

MicroVAX I, 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

VAXstation I, VAXstation II, VAXstation 2000

VAXstation 3100 Model 30,
VAXstation 3100 Model 38,
VAXstation 3100 Model 40,
VAXstation 3100 Model 48,
VAXstation 3100 Model 76

VAX-11/725, VAX-11/730, VAX-11/750, VAX-11/780, VAX-11/782, VAX-11/785

VAX 4000 Model 60, VAX 4000 Model 90,
VAX 4000 Model 100, VAX 4000 Model 200,
VAX 4000 VLC

VAX 6000 Model 200 Series, VAX 6000 Model 300 Series

VAX 8300, VAX 8350, VAX 8500, VAX 8530, VAX 8550,

VAX 10000 Model 600 Series

VAXstation 8000

VAXft Model 110, VAXft Model 310

VAXserver 6000 Model 210,
VAXserver 6000 Model 220,
VAXserver 6000 310,
VAXserver 6000 Model 320

VAXserver 3100, VAXserver 3300, VAXserver 4000 Model 200

Personal DECstation 5000 Model 20/25 MX,
Personal DECstation 5000 Model 20/25 HX,
Personal DECstation 5000 Model 20/25 TX,
Personal DECstation 5000 Model 20/25 PXG+,
Personal DECstation 5000 Model 20/25 PXG Turbo +,

DECsystem 3100, DECsystem Model 25, DECsystem 2100, DECsystem 5820, DECsystem 5830, DECsystem 5840. DECstation 3100, DECstation Model 3100 series.

MINIMUM RECOMMENDED CONFIGURATION *

For OpenVMS:

Processor Capacity:	6 SPECmark
Memory Required:	32 MB
Disk:	RZ25

For RISC/ULTRIX:

Processor Capacity:	16 SPECmark
Memory Required:	48 MB
Disk:	RZ56 Disk

*   Specific network environments may require larger configurations.

Disk Space Requirements (Block Cluster Size = 1):

For OpenVMS:

Disk space required for installation and use:	4,900 blocks on the system disk
	1,400 blocks on the mcc_ common disk
	6,300 blocks total

For RISC/ULTRIX:

Disk space required for installation and use:	18,000 Kbytes

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.

OPTIONAL HARDWARE

VT1300 and VT2000 Color Terminals are supported.

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* section details any special hardware required by this product.

*   V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

IMPORTANT INTEROPERABILITY INFORMATION FOR OPENVMS USERS ONLY

Interoperability problems may occur when more than one product containing DECthreads is installed on a system. This occurs because some products overwrite the system version of DECthreads. If a product with a different version of DECthreads is installed after POLYCENTER Framework, problems may occur.

POLYCENTER Framework V1.4 is linked with DECthreads V1.0-422. Later versions of DECthreads have a backwards compatible API. Consequently, no problem should result from having a more recent version of DECthreads on the system.

Only SSB versions of DECthreads are supported.

SOFTWARE REQUIREMENTS FOR OPENVMS

For Systems Using Terminals (no DECwindows Motif® interface):

• OpenVMS VAX Operating System V5.5-2 to V6.1

• POLYCENTER Network Manager 200 V1.4

For Workstations Running DECwindows Motif:

• OpenVMS VAX Operating System V5.5-2 to V6.1

• DECwindows Motif V1.1 for OpenVMS V5.5-2 DECwindows Motif V1.2 for OpenVMS V6.1

• POLYCENTER Network Manager 200 V1.4

OpenVMS Tailoring

For OpenVMS systems, the following OpenVMS classes are required for full functionality of this layered product:

• OpenVMS Required Saveset

• Network Support

• Programming Support

• Utilities

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

SOFTWARE REQUIREMENTS FOR RISC/ULTRIX

For Systems Using Terminals (no Motif interface):

- ULTRIX Operating System V4.2, V4.3, V4.3A, V4.4

- POLYCENTER Network Manager 200 V1.4

For Workstations (both with and without Motif):

- ULTRIX Worksystem Software V4.2, V4.3, V4.3A, V4.4

- DECwindows Motif V1.1.3 (for Ultrix V4.2, V4.3, 4.3A)
  DECwindows Motif V1.2 (for Ultrix V4.4)

- POLYCENTER Network Manager 200 V1.4

RISC/ULTRIX Subsets

The following Subsets are required for this layered product:

- UDTBASE42x, UDTINTLRT42x, (ULTRIX 4.2)

- UDTBASE43x, UDTINTLRT43x, (ULTRIX 4.3, 4.3A)

- UDTBASE44x, UDTINTLRT44x, (ULTRIX 4.4)

For more information about ULTRIX Subsets, refer to the ULTRIX Operating System Software Product Description (SPD 26.40.xx).

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:

This layered product supports the OpenVMS VAX and ULTRIX RISC License Management Facility.

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

For more information on the License Management Facility, refer to:

- The OpenVMS VAX Operating System Software Product Description (SPD 25.01.xx) or the *License Management Facility* manual of the OpenVMS VAX Operating System documentation set.

or

- The ULTRIX RISC Operating System Software Product Description (SPD 26.40.xx) or the *Guide to Software Licensing* in the ULTRIX RISC Operating System documentation set.

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

This product is available as part of the OpenVMS VAX and ULTRIX Layered Product Consolidated Distributions on CD-ROM.

This product is also available on TK50 Streaming Tape

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

ORDERING INFORMATION

POLYCENTER Extended LAN Manager AM and FM for OpenVMS VAX

Software Licenses: QL-GX8A*-**
Software Media and Documentation: QA-GX8AA-**
Software Documentation: QA-GX8AA-GZ
Software Product Services: QT-GX8A*-**

POLYCENTER Extended LAN Manager AM and FM for RISC/ULTRIX

Software Licenses: QL-MGUA*-**
Software Media: QA-MGUA*-**
Software Documentation: QA-MGUAA-GZ
Software Product Services: QT-MGUA*-**

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

Network Management Services are also available. These include, but are not restricted to, the following:

- Network Management Operations Services

- Network Management Planning and Design Services

- Network Management Implementation Services

- Network Management Training

For local availability, please contact your Digital Sales 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.

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

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