

# Software Product Description

**PRODUCT NAME: POLYCENTER Manager on NetView  
for Digital UNIX, V4.1**

**SPD 53.57.02**

## DESCRIPTION

The POLYCENTER™ Manager on NetView® program uses a client/server model to provide a distributed network management solution for heterogeneous, multi-vendor network devices and open network environments. Its client/server capability provides the flexibility to centralize or decentralize network management functions as appropriate for the organization.

POLYCENTER Manager on NetView includes user-oriented SNMP applications for fault, configuration, and performance management and standard application programming interfaces (APIs) that allow software developers to seamlessly integrate their multiprotocol applications. The product incorporates the guidelines and definitions programmers need to create SNMP applications that can work together to provide end-to-end management of enterprise information systems.

## Features/Benefits

### *Client/Server Capability*

- Distributes graphical applications such as topology display, events display, and SNMP browser to remote Alpha machines.
- Off-loads the server's user-oriented processing—for improved performance and to let more operators manage the network from a server.
- Server performs “centralized” functions, such as network discovery, status polling, historical data collection, and trap customization.
- APIs provide a high-level interface to the application developer by hiding the semantics of distributed connections.

### *Distributed Security*

- DCE security services prevent unauthorized access to POLYCENTER Manager on NetView in the distributed environment.
- DCE technology ensures that sensitive security information is never passed in clear text over vulnerable media.

- NetView security, if enabled, lets you set up user groups that are allowed access to only a specified set of applications and operations.
- An audit trail captures security-related events such as login/logoff attempts, configuration changes, and application invocations.
- Sequential login capability allows for a smooth transfer between operator shifts without shutting down POLYCENTER Manager on NetView processes.
- DCE security mechanisms use the industry standard GSS-API—providing a uniform interface for application developers to build security into their applications.

### *Superior Graphical User Interface*

- View network at a glance to quickly recognize and resolve network problems.
- “Out of the box” functionality provides immediate results.
- Advanced human factors engineering provides a simple, easy-to-understand display with excellent window management to minimize screen clutter.
  - Topology View—displays and manages network maps.
  - Control Desk—displays and manages network events and other applications.
  - Tool Palette—provides fast, easy access to most frequently used tools.
  - Navigation Tree—keeps users organized as they traverse the network.
- Network views can be customized based on any criteria: geography, physical or logical layout, device type, and so forth.
- Enhanced zooming capabilities such as “rubber band” zooming allows the operator to directly zoom in on a selected group of objects.
- Customized backgrounds and icons can be added easily.

- Color coding of event cards facilitates rapid resolution of the most severe events.
- Context-sensitive pop-up menus provide the user with a set of commands applicable to the selected object.
- Menus and tool palette displays can be customized to fit the tasks performed by the operator.
- Monitor information for real-time trouble diagnosis, comparison against thresholds, and historical report generation.
- Show real-time and historical graphs of network statistics.
- Use performance monitoring tools to dynamically monitor POLYCENTER Manager on NetView workstation resources and automated commands to report problems that affect performance.
- Provides enhanced algorithms for node placement within the map and provides the ability to display up to 2000 interfaces per node.

#### *Relational Database Support*

- The POLYCENTER Manager on NetView program provides flexibility for database support. It includes INGRES®, INFORMIX®, ORACLE®, and Sybase® relational databases for seamless integration of management data including IP topology data, SNMP-pollled data, and SNMP-logged trap data.

The POLYCENTER Manager on NetView program uses the databases as a management data repository with collection controlled through the graphical user interface. Using the database client/server capability, data can be placed anywhere within the enterprise, and it can be accessed across various sites in the enterprise.

#### *Application Programming Interfaces (APIs)*

Open and industry standard interfaces permit seamless integration of other management applications:

- End-User Interface API—enables applications to be integrated as part of the graphical display.
- XMP (X/Open™ Management Protocol) API—provides SNMP and CMIP over TCP/IP (CMOT) support based on OSF® DME technology and provides an object-oriented API to accommodate customer needs.
- SNMP API—enables applications to access MIB information.
- Event Filtering API—provides filter definitions and thresholding of event information sent to events display, POLYCENTER Manager on NetView applications, or other registered applications.

- Collection Facility API—enables applications to perform operations on user-defined collections of objects; for example, all routers in the backbone network.
- Security API—used to build security into POLYCENTER Manager on NetView applications.

#### *Dynamic Network Discovery*

- Automatically discovers, maps, and monitors TCP/IP network resources.
- Changes are also discovered and automatically reflected on the appropriate submaps. Newly discovered objects can be automatically placed on the appropriate submap or optionally stored in a holding area for later manual placement.
- Automatic topology mapping includes support for ring, bus, tree, and star layouts to portray complex customer environments
- Allows discovery by IP address range—allowing for tailoring of autodiscovery features, and provides improved discovery, display, and management of non-IP and IP resources.
- Managers can discover backup managers.

#### *Collection Facility*

- Collections of objects can be defined based on user-selectable criteria; for example, all routers in a given subnet.
- Administrators can now perform operations on the entire collection as a whole.
- The collection editor is provided to build and manage collections.

#### *Backup Management*

- Provides industry-unique backup capability that automatically and dynamically provides continuous system access. This capability assures that network and systems downtime will be kept to a minimum with a smooth, uninterrupted turn-over to a backup network management station.
- Backup managers for a given domain can be selected from a list of automatically discovered managers available on the network.

#### *Management Information Base (MIB) Processing*

- Includes support for MIB-II objects and many preloaded vendor extensions.
- MIB Loader allows any enterprise-specific MIB extension to be added.
- MIB Data Collector allows collection of real-time or historical MIB information and compares data to user-defined thresholds to generate events.

- MIB Browser allows for browsing, retrieving, or setting MIB values.
- MIB Application Builder allows development of applications without any programming, which includes retrieval of data, graphic or tabular display, or storing data as a file.

*Open Topology Manager*

- Expands the scope of POLYCENTER Manager on NetView beyond SNMP by allowing the integration and correlation of multiple protocol topologies within topology maps and event displays. Protocols such as DECnet™ can be integrated with the Open Topology Manager.

*Filtering Capabilities*

- Helps to weed out extraneous information and provide greater control of event handling, monitoring, and reporting.
- Filtering criteria can be applied to event information that is displayed on the screen or sent to applications.
- Automates actions to be taken as a result of standard and enterprise-specific SNMP traps.
- Filters can be defined based on MIB variable values inside SNMP traps.
- New event correlation filtering capabilities allow network managers to take action based on information from multiple, related events

*SNMP V2*

- SNMP V2 protocol stack and its associated API will be implemented in a later release of V4.1 as the Internet Engineering Task Force (IETF) standard for SNMP V2 is fully finalized.
- SNMP V2 will offer enhanced security, reduced protocol overhead by moving information in bulk and the capability to manage newer devices that have SNMP V2 agents

POLYCENTER Manager on NetView provides network management functionality in three critical areas:

- Fault management
- Configuration management
- Performance management

These management applications are included as part of the product and can be enhanced by the numerous applications provided by third party vendors.

*Strengths:*

- Developed in collaboration with IBM®.
- Synchronized product releases and enhancements by Digital™ and IBM.

- Joint Marketing and NetView Association (applications) with IBM.
- Established and proven technology—based on the Hewlett-Packard® OpenView® product, enhanced by IBM and Digital.
- Superior SNMP Manager, including these enhancements over the Hewlett-Packard OpenView product:
  - Better client/server capability
  - Top-rated graphical user interface
  - Window Management/Navigation Tree
  - Tool Palette, Control Desk, MIB Browser, and Application Builder
  - Storage and display of topology from multiple protocols
  - Enhanced backup management
  - Robust event handling
  - Enhanced filtering and thresholding capabilities
  - Resulting in high end-user productivity
- Common application APIs
- Integration point for system and network management applications
- Superior price/performance of Alpha
- Large selection of third-party applications—with frequent additions, including SNA support and various network-device management applications.
- DECnet support available. (See **OPTIONAL SOFTWARE** section.)

POLYCENTER Manager on NetView is supported by the joint Digital and IBM NetView Association. This joint ISV association includes over 200 software vendors committed to developing and/or porting third-party applications for POLYCENTER Manager on NetView.

POLYCENTER migration software packages are available to facilitate the transition from POLYCENTER Network Manager 200 or 400 and POLYCENTER SNMP Manager 100 or 300 to the POLYCENTER Manager on NetView for Digital UNIX® and POLYCENTER DECnet Manager for Digital UNIX.

Digital advantages:

- POLYCENTER Manager on NetView offered on high performance Alpha processors
- Superior price/performance
- Superior graphical user interface, intuitive and easy to use
- Common APIs that are open and extensible

## CONFORMANCE TO STANDARDS

POLYCENTER Manager on NetView conforms to the Internet Engineering Task Force (IETF) defined framework for network management. It conforms specifically to the following IETF RFCs:

- RFC 1155
- RFC 1157
- RFC 1213
- RFC 1215
- RFC 1508

POLYCENTER Manager on NetView is identical to the IBM NetView for AIX® product (previously referred to as NetView/6000), except for the following functions. These functions are unavailable due to operating system differences:

- Host connection/service point functionality is not present
- The daemon that converts SNMP traps to SNA alerts (tralerted) is not present, supported, or available.
- The system monitoring subagent (trapgend) is not available for Digital UNIX.

## INSTALLATION

The POLYCENTER Manager on NetView program by itself is customer installable; however, it does require proper configuration of underlying UNIX services, particularly the TCP/IP network services. Digital Installation Services are available for this product.

### Customer Responsibilities

Before installation of the POLYCENTER Manager on NetView program, the customer must:

- Previously have installed and configured all requisite software
- Registered and activated the License PAK on both the client and the server systems.

## HARDWARE REQUIREMENTS

- Digital Alpha processor. (See *Processors Supported* below.)
- Minimum memory of 64 MB on either client or server system
- Minimum free disk space of 100 MB on each client and 180 MB on the server
- Minimum swap space of 192 MB on either client or server system
- Color display that supports X Window System™ Version 11, Release 5, and OSF/Motif® Version 1.0, Release 2.

Characteristics:

- Minimum number of colors: 265
- Depth: 8 planes
- Bits in color: 8 bits
- Dimensions: 1280 x 1024 pixels
- Resolution: 91 x 92 dots per inch
- Video memory on adapter: Minimum 1 MB

**Note:** The VXT-7000 display is not supported.

- Mouse
- TCP/IP network connection
- CD-ROM drive or RIS server with POLYCENTER Manager on NetView program kit loaded

*Processors Supported:*

Alpha DEC™ 2000 Model 300 Alpha Workstation  
DEC 2000 Model 500 Alpha Workstation  
DEC 3000 Model 300 Alpha Workstation  
DEC 3000 Model 300 Alpha Server  
DEC 3000 Model 300L Alpha Workstation  
DEC 3000 Model 300L Alpha Server  
DEC 3000 Model 400 Alpha Workstation  
DEC 3000 Model 400 Alpha Server  
DEC 3000 Model 500 Alpha Workstation  
DEC 3000 Model 500 Alpha Server  
DEC 3000 Model 500X Alpha Workstation  
DEC 3000 Model 500X Alpha Server  
DEC 3000 Model 600 Alpha Server  
DEC 3000 Model 600 Alpha Workstation  
DEC 3000 Model 800 Alpha Workstation  
DEC 3000 Model 800 Alpha Server  
DEC 4000 Model 610 Alpha System  
DEC 4000 Model 710 Alpha System  
DEC 7000 Model 610 Alpha System  
DEC 10000 Model 610 Alpha System

*Processors Not Supported:*

VAX™ based or RISC-based processors

### **Disk Space Requirements**

/usr/OV	100 MB on each client
/usr/OV	180 MB on the server
swap space	192 MB on either the client or the server

More swap space will be needed for larger networks or when other memory-intensive products run on the same system.

Additional disk space might be necessary for databases and log files.

### **SOFTWARE REQUIREMENTS**

The following software must be installed, configured, and operational in order to install and configure the POLYCENTER Manager on NetView program:

- Digital UNIX V3.2 or V3.2B Operating System
- DEC C++ shared libraries (CXXSHRDA201 or higher)—supplied as an optional operating system subset
- POLYCENTER Common Agent for Digital UNIX V3.2 or V3.2B. The Common Agent is supplied as an optional operating system subset.
- TCP/IP—included as part of the operating system
- DCE—if distributed security is required

### **OPTIONAL SOFTWARE**

- POLYCENTER DECnet Manager for Digital UNIX, V2.1 (SPD 62.53.xx) for management of the DECnet environment in addition to IP management. This product is layered on POLYCENTER Manager on NetView. POLYCENTER DECnet Manager will manage the Digital network environment including DECnet Phase IV, DECnet/OSI, Terminal Servers, LAN Bridges, and FDDI.
- INGRES V6.4 for Digital UNIX
- ORACLE V7.0.16
- INFORMIX V5.02 for Digital UNIX
- Sybase SQL Server 10.0.2 for Digital UNIX
- The POLYCENTER Manager on NetView for Digital UNIX program and the POLYCENTER DECnet Manager for Digital UNIX program are offered together at a special price to previous purchasers of POLYCENTER Network Manager 200 or 400 and POLYCENTER SNMP Manager 100 or 300 (QP-01WAA-02\*\* or QP-01WAA-01\*\*\*).

### **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**

As a layered product, POLYCENTER Manager on NetView supports the Digital UNIX 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 Digital UNIX Operating System Software Product Description (SPD 41.61.xx) or the Digital UNIX Operating System documentation.

### **GROWTH CONSIDERATIONS**

The minimum hardware/software requirements for any future version of this product might be different from the requirements for the current version. Additional memory and/or disk space might be required to monitor large networks.

### **DISTRIBUTION MEDIA**

This product is available as part of the Digital UNIX Consolidated Software Distribution on CD-ROM as well as an Individual Product Offering CD-ROM.

### **ORDERING INFORMATION**

Server Software License: QL-2K7A9-\*\*  
Client Software License: QL-4NTA9-\*\*  
Software Media: QA-2K7AA-H8  
User Documentation: QA-2K7AA-GZ  
Programmer Documentation: QA-2K7AB-GZ  
Software Product Services: QT-2K7A\*-\*\*

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

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