digital

PC

Directions in Desktop-to-Enterprise Client/Server Management

Personal Computer Business Unit, Digital Equipment Corporation

October, 1995

For several years, network administrators and corporate MIS managers have been spending large amounts of time and money to support heterogeneous client/server LAN environments. While system costs have decreased over the past five years, human resource costs have increased as the expertise necessary to manage diverse networks has become scarce, and environments have become more complex. As more businesses have adopted a client/server computing model, network availability has become vital to individual productivity, making efficient management of IT resources mandatory. Corporate CIOs and network managers at all levels of the organization seek competitive advantages through their investments in information systems.

At the same time, there are multiple tools, operating environments and conflicting standards to navigate in the quest to seamlessly manage heterogeneous network environments. To compound the problem, there is more information available to the network administrator every year as more sophisticated tools and standards are developed. Clearly, the challenge is to plan, manage and control the desktop, server and network components that comprise today's client/server enterprises – all from a single location.

Desktop-to-Enterprise Management from Digital

Continuing the evolution from Digital's heritage in providing leadership networking technologies at every level of the organization, Digital now extends its network management expertise to the PC desktop and server with ClientWORKS™ and ServerWORKS™. Through both of these products, Digital offers workgroup and desktop management at no additional charge as well as scaleability through integration with enterprise management applications. Further, ClientWORKS and ServerWORKS Manager combine to offer a management solution which includes the best features of both the Simple Network Management Protocol (SNMP) and the Desktop Management Interface (DMI), providing the power of fault and asset managment in one solution from a single vendor.

ClientWORKS is the family of client management and networking tools that Digital supports on its entire line of desktop personal computers. ClientWORKS extends Digital's networking expertise to the desktop by providing a powerful set of utilities and Desktop Management Interface (DMI) software at

no charge, designed to help network administrators get the most out of their networking environments.

In addition to industry-leading desktop management and the first 32-bit DMI service layer for Windows 95 and Windows NT on the market today, Digital offers the unique capability to bring DMI to Microsoft Windows™ NT server environments, SNMP agent software[1] for powerful remote management in heterogeneous environments, as well as a Windows 95-style DMI browser.

The innovation continues with Digital's powerful server management software, featuring built-in network and workgroup management. ServerWORKS Manager is software included with all Digital Prioris servers that provides comprehensive server and network management at no additional cost. ServerWORKS Manager enables network administrators to manage PC print, file and application servers, and user accounts, configure LAN manager domains and directories, as well as support distributed SNMP devices such as bridges, routers, hubs and switches from anywhere on the LAN.

ServerWORKS Manager further enables network administrators to manage multiple network operating systems and supports a variety of network protocols including TCP/IP, IPX, NetBEUI, and DECnet. The product consists of the ManageWORKS Work Group Administrator, browser, alarm configuration and data collector tools, a tutorial, and manager agents for Windows NT, Novell NetWare and SCO UNIX. Unlike competitive products, ServerWORKS Manager extends manageability from the server to the workgroup and is scaleable to the enterprise.

Digital Combines ClientWORKS and ServerWORKS to Deliver Enhanced Management Solutions

With the introduction of ClientWORKS client management and ServerWORKS server management software from Digital, network administrators now have a comprehensive solution that other PC companies cannot provide, including the following capabilities:

- **Powerful No-Cost Network and Desktop Management**. Since ServerWORKS Manager includes the ManageWORKS Workgroup Administrator at no extra charge, Digital offers not only powerful server management but workgroup management as well. Since ManageWORKS communicates upwards, Digital provides integration to enterprise management tools that other PC vendors do not, permitting network administrators to expand their management capabilities, now or in the future.

  Digital also offers the capability to manage desktop PCs with a level of information never before possible through support of both SNMP and the Desktop Management Interface (DMI). Digital's industry-standard implementation offers users lower cost of ownership, lower travel and training costs, faster response time, improved accuracy of analysis and increased user satisfaction.

Both ClientWORKS and ServerWORKS work together to deliver a no-cost network management solution for customers purchasing Digital desktop and server products. Unlike competitors' personal computers, Digital packages both ServerWORKS and ClientWORKS software at no charge so network administrators are not forced to purchase third party add-on software such as Intel LANDesk to view more information, including DMI, about their desktops.

- **Digital Brings DMI to Microsoft Windows NT Server Environments.** Digital offers the unique capability of bringing DMI to Windows NT server environments, one of the fastest-growing network operating systems on the market today. Not only can network administrators view DMI information from within Microsoft Systems Management Server™ (SMS) and Digital Polycenter AssetWORKS, but they can now perform powerful SQL database searches on the same information throughout their enterprise.

  As MIS managers upgrade their users to Windows 95 for instance, queries like "Show me all the PCs with 8MB of RAM?" become more and more valuable. Further, administrators can query the PC model and available SIMM slots in remote machines, so they only have to make one trip to upgrade equipment, saving time and money. Digital's DMI browser launches with context from within Microsoft SMS using Polycenter AssetWORKS, providing a seamless integration of DMI within this popular environment.

- **DMI-enabled Asset Management and SNMP-based Fault Management**. Furthermore, Digital is the first to offer both SNMP and DMI on the same management console, further reducing the cost of ownership for network management. Digital's integrated management provides a standards-based solution for managing the entire workgroup and network featuring single-workstation access to all management functions, the ability to manage multiple NOS environments, and an SNMP-based view of all components -- incorporating DMI on the same console.

  ClientWORKS brings desktop asset management to the ServerWORKS framework.   From within ServerWORKS Manager, network administrators click on a desktop icon and seamlessly launch Digital's DMI browser, displaying a level of information never before available -- and never before presented through a single SNMP manager console. This capability is unique and a powerful consolidation of the information available to the network administrator, simplifying the interface and integrating the tools and capabilities that Digital's competitors provide separately or not at all.

- **Powerful, Standards-Based, Workgroup/LAN Management At No Charge, Which is Scaleable to the Enterprise.** In addition, Digital's ServerWORKS Manager is scaleable to the enterprise, and easily

integrates with Polycenter™ NetView, HP OpenView™ UX, IBM NetView/6000 AIX and others to permit easier integration and better system and network management.

Since ServerWORKS Manager communicates upward to Polycenter NetView and other enterprise-level management tools, network administrators gain the growth path they need to connect their PC LANs to the enterprise framework at no additional cost. Therefore, Digital's management strategy is scaleable from the desktop to the workgroup and now to the enterprise.

- **Digital's Extended Management Strategy**

In summary, Digital's desktop-to-enterprise management software shipping with its desktop PCs and PC servers now offers several powerful features to the network administrator including an SNMP-based view of all network components including servers and clients, integration with DMI, and a single console for managing Novell NetWare, SCO Unix, and Microsoft Windows NT server environments. Further, Digital includes DMI-enabled asset management, SNMP-based fault management, and integration with Digital Polycenter NetView, Polycenter AssetWORKS, Microsoft SMS, and HP OpenView.

ClientWORKS, combined with Digital's ServerWORKS Manager, ManageWORKS, Polycenter AssetWORKS, Polycenter NetView and other industry-standard network management tools, provide comprehensive desktop-to-enterprise management solutions. For more information about Digital's complete line of manageable hardware including Venturis and Celebris desktop personal computers, Prioris PC servers, and HiNote mobile computers, contact your local reseller, or visit our web site location at http://www.pc.digital.com.

# # #

[1]Available Q1CY96

NOTE TO EDITORS: Sales information may be obtained by calling Digital at 800-722-9332.

ClientWORKS, ServerWORKS, ManageWORKS, Polycenter AssetWORKS, Venturis, Celebris, Prioris, and HiNote are trademarks of Digital Equipment Corporation. Microsoft is a registered trademark and Systems Management Server, Windows are trademarks of Microsoft Corporation. LANDesk is a registered trademark of Intel Corporation. NetView is a trademark of International Business Machines Corporation. OpenView is a trademark of Hewlett Packard Corporation. Novell is a trademark of Novell, Inc.