## TheEnvironment

# **PrimeComputerOverview**

# Background

BasedinNatick, Massachusetts, PrimeComputer, Inc. isaninternationalFortune 500 company with more than 19 years of experience in systems integration. Prime markets general-purpose computer and CAE/CAD/CAM systems in 53 countries throughout North America, Latin America, Europe, the Middle East, Africa and the Asia Pacific Basin. Prime's major products include the 50 Series TM, amultitasking, fully compatible line of superminicomputers, the industry-standard Prime EXLTM family of multi-user, multitasking supermicrocomputers, and a full line of integrated CAE/CAD/CAM solutions based on PCs, workstations, minicomputers, and mainframes.

PrimeComputeralsooffersstandardcommunicationsproductsfordistributed processingnetworks.Since1979,whenPrimeintroducedPRIMENET,itswidearea network(WAN)andlocalareanetwork(LAN)softwareforPRIMOS-based50Series systems,thecompanyhasdevelopedotherWANandLANproducts.Theseinclude PRIME/SNA,whichallowsPrimecomputerstoconnecttoIBMenvironments,and PRIMELINKsoftware,whichisusedtoconnectPrimesystemstotheAppleMacintoshcomputerandPC-DOS-compatiblepersonalcomputers.

Primeimplements industry-standard protocols, such as X.25, IEEE802.3 Ethernet, and TCP/IP. All of Prime's communications products are compatible, and any Prime communications product can be used on any 50 Series system without modification.

# **ConnectivityBetweenPrimeSystems**

#### PRIMENETConfigurations

PRIMENET software is used to interconnect Primesystems in a proprietary, tokenpassing LAN called RINGNET, or in an industry-standard IEEE 802.3 CSMA/CD LAN, called LAN 300. PRIMENET software offers arange of ways to connect systems that are located far from each other. If heavy access is required, Prime systems can be connected viale as editelephone lines or even via satellite in a synchronous, point-to-point network. If only occasional access is required, a synchronous dial-up network may be used.

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#### **PRIMENETServices**

Remote Terminal Accessallows any terminal inal ANorWAN to access any Prime host on the network. Remote File Accessallows users to access files on other networked Prime systems without regard to their physical location. For specialized network applications, an interprocess communications facility provides a high-level language subroutine interface. Another facility, the File Transfer Service, is a queued mechanism for transfer ing files between systems.

#### X.25Interface

PRIMENETs of tware also provides access to X.25-based Packet Switched Data Networks (PSDNs). All the PRIMENETs of tware services previously mentioned are available when X.25 is used, just as if the link were based on the RINGNET LAN.

#### TCP/IPforPRIMOS

TCP/IPissupported across Prime's broad range of products: terminal servers, 386based supermicrocomputers, CAE/CAD/CAM workstations, and superminicomputers. TCP/IPforPRIMOS supports: mailtransferamong 50 Series system users and other users on the network with Simple Mail Transfer Protocol (SMTP); file transfer applications using File Transfer Protocol (FTP); remote access to and from a 50 Series system via Server and User Telnet; and (4) program-to-program communication with an other system on the LAN supporting sockets.

PrimeComputerdirectlysupports the integration of Macintosh systems into its networking solutions, through PRIMELINK software, which is described in the following section.