CaseHistory



Researchersinremotefacilitiescanaccess importantinformation quickly.

AtUnionCarbide, the EthernetBackbone BringsSitesCloserTogether.

Union Carbide Corporation has more than 30,000 employees located inits Connecticut headquarters, its two major research centers in New Jersey and West Virginia, its two satellite facilities in New Jersey and two major plants in Texas. Engineers and managers in all five locations need to access information on Digital VAX minicomputers at the research sites and an IBM host in West Virginia.

MacintoshSolution

The company has linked the computing resources of all five facilities, using a network of 3,000 Apple Macintosh systems on Apple Talk and Ethernet networks. Many Macintosh personal computers can access the VAX minicomputers at either research facility for chemical research data, scientific research programs, or Digital's ALL-IN-1 office automation program; or files stored on Apple Share files ervers in any location.

EveryAppleTalknetworkisconnected to the Ethernetbackbone in each building through Ethernetbridges. The two VAX clusters and the AppleShare files ervers in remotes ites communicate with one another over dedicated T-1 phone lines.

WithFileSharing,FiveSitesSeemLikeOne

Because teammembers on a single project might work at different sites, it was critical that employees could access financial and engineering information regardless of location. Union Carbide found a solution in Apple Share file servers, which

CaseHistory

workgroups now use extensively to exchange information with other workgroups at their site or at other sites. The file server capability has enabled engineers to save time waiting for document transport and to avoid costly duplication of efforts.

The New Jersey research facility has a VAX running Alisa Shareasits Apple Sharefile server. According to Keith Sproul, an engineer in the Applied Mathand Computer Services group, "We make great use of the Macintoshand the Alisa Share server. In addition to exchanging files, we use Alisa Print Services to access printing resources, such as a fast, high-resolution Digital laser printer."

"Anothermajoradvantageoflinking the AlisaShareservers in different facilities is the convenience of printing at different locations. I've saved full-day trips by making revisions and printing them at destination instead of hand-delivering documents. People also like using the servers instead of faxing – youget better quality in almost the same time, and since the T-1 line is already in place, you don't have to pay extra for this service."

The VAX systems communicate with one another using DECnet. Because AppleTalkrunson top of DECnet, the VAX systems appear to Macintoshusers as ordinary AppleShare fileservers. "Users don't want to know -- or need to know -- what type of fileserver they're using," says Sproul. "That's what's so great about the Macintosh -- you can just choose a fileserver from a menu without knowing its location."

VAXAndIBMVM/CMSTerminalEmulation

UnionCarbide's engineers use their Macintosh systems with Mac 240 or Mac 241 from White Pine Software for Digital terminal emulation. They've recently begun using eXodus from White Pine Software for XW indow and DEC windows ^s terminal emulation.

The Accounting and Purchasing employees at Union Carbideuse their Macintosh computers to access finance or accounting data on the IBMVM/CMS host in South Carolina. The VAX systems and the host are connected via another dedicated T-1 link, sousers simply connect to the VAX through Ethernet, then log on to CMS.

MacintoshNetworkOpenToAll

Sproulisconvinced of the advantages of the Macintosh for Union Carbide. "The Macintosh makes my job significantly easier. It's easy to learn, so I don't have the training concerns I'd have with other systems. And if people do have availad reason for using a different machine, Macintosh connectivity tools mean they can still be part of the overall network."

"When people ask if they can put their computer on our network, I can say 'yes." That's what I like about the Macintosh."