



School Systems

School Systems seeking the benefits of networking technology increasingly choose LONWORKS networking and control technology for their upgrades of critical HVAC systems and other equipment.

Because School Systems have multiple installations and are separated by considerable distances, they are ideal candidates for both LONWORKS' scalability and CTI Products' connectivity.

The installation shown in the accompanying illustration shows a system that was installed in the Eastern US. The School System had existing T-1 and Ethernet LANs installed to accommodate school administration networks and Internet accesses for students. . If at all possible the School System wanted to use this WAN pass the LONWORKS traffic

The first phase of the project involved retrofitting two Air handling units on the roof of a High School with LONWORKS controllers. One of these AHU's serves the administrative areas of the school building and the other serves the classroom areas. In addition to the local control that the new system provided, the school district needed to monitor the system status and setpoints from a remote site some 3 miles away.

The Ethernet LAN at one site is linked via a pair of TCP/IP Routers and an ISDN line to a LAN at the Central site. The WAN then continues via another pair of TCP/IP Routers and a T1 link to an Ethernet Network at a distant School site.

The NCB-Etherlon™ units now link the sites seamlessly

Potential Users:

- Public School Systems
- University Systems
- Governmental Agencies
- Business Campus Managers

System Architecture

