

Application Guide



Multi-Location Businesses

LONWORKS[®] Building Management Systems control networks can be extended throughout a multi-location business system by means of the business's own Ethernet LAN/WAN or Intranet. The systems can then be managed and monitored from a central location or other locations throughout the system.

The manager can "see" *all* LONWORKS nodes in *all* subsystems using standard network management tools.. This technique affords the business manager a direct and real-time means to for better operation:

- More centralized control
- A higher degree of control and management
- More integrated & interoperable systems
- Building-wide and Campus-wide control from a single site or multiple sites
- Immediate and transparent access across the system

The way this increasingly popular method achieves connectivity is to use an MIS Network (or other IP-based LAN, WAN or Intranet) as a "backbone" for the building's automation systems and send the data along that network to its' destination. Since such a network will already be installed, there is very little additional installation cost.

Potential Users:

- Convenience Stores
- Department Stores
- Grocery Chains
- Clothing Store Chains
- Gasoline Retailers
- Fast Food Chains
- Franchise Systems

CTI Products' NCB /EL Etherlon[™] is placed at the junction of each LONWORKS network segment to the Ethernet network. The LONTALK packets are "tunneled" through the IP network via the router and come back out again at the properly addressed NCB /EL Etherlon[™] Routers. LONWORKS -to- Asynchronous Routers may also be used with their appropriate networks.

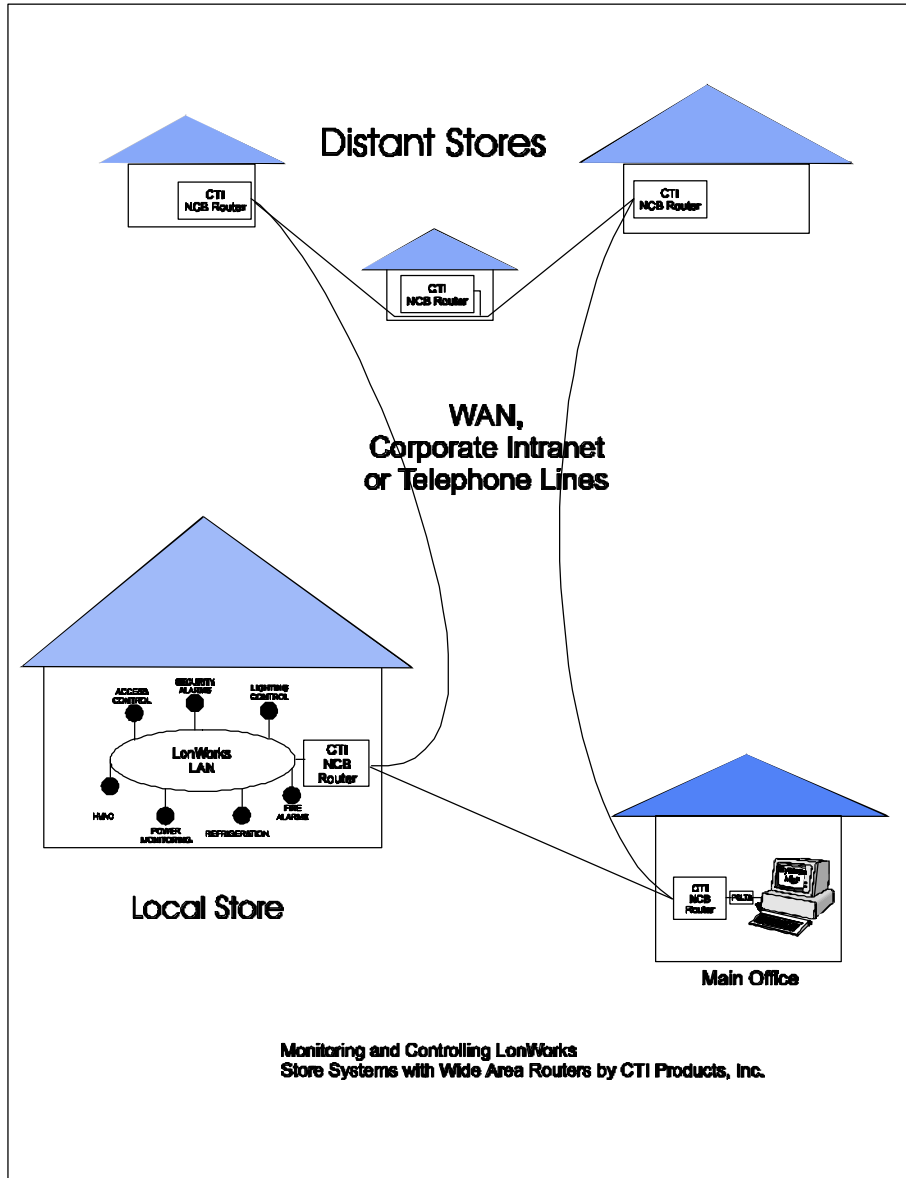
Similar connectivity can also be implemented by use of leased or dial-up telephone lines where WANS do not extend. CTI Products, Inc. makes routers for telephone lines, RF links, Fiber Optic Networks, Asynchronous data channels and ISDN lines. These can be used to provide a contiguous single network.

**FOR MORE
INFORMATION
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Suggested Architecture



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