

Application Guide



Large Enterprise WANs

LONWORKS[®] control networks are extending the concept of networking into a whole New World: the world of Intelligent Building Management Systems for:

- HVAC
- Security & Access Control
- Lighting Control
- Elevator Control
- Energy & Demand Management
- ... *And many others*

In the past, each of these systems had their own hardwired network. The building owner/manager was required to install and maintain all of these networks in parallel.

LONWORKS technology provides open system that not only allows these separate devices and systems to exist on the same network, it also allows them to work together. The devices and techniques currently available are revolutionary. These devices, when coupled to information and decision-making processes multiply integration for a totally automated building system.

Potential Users:

- Executive Office Buildings
- Medical Facilities
- Shopping Malls
- University Facilities

Building owners are looking to integrate and simplify inside and outside the structure to produce:

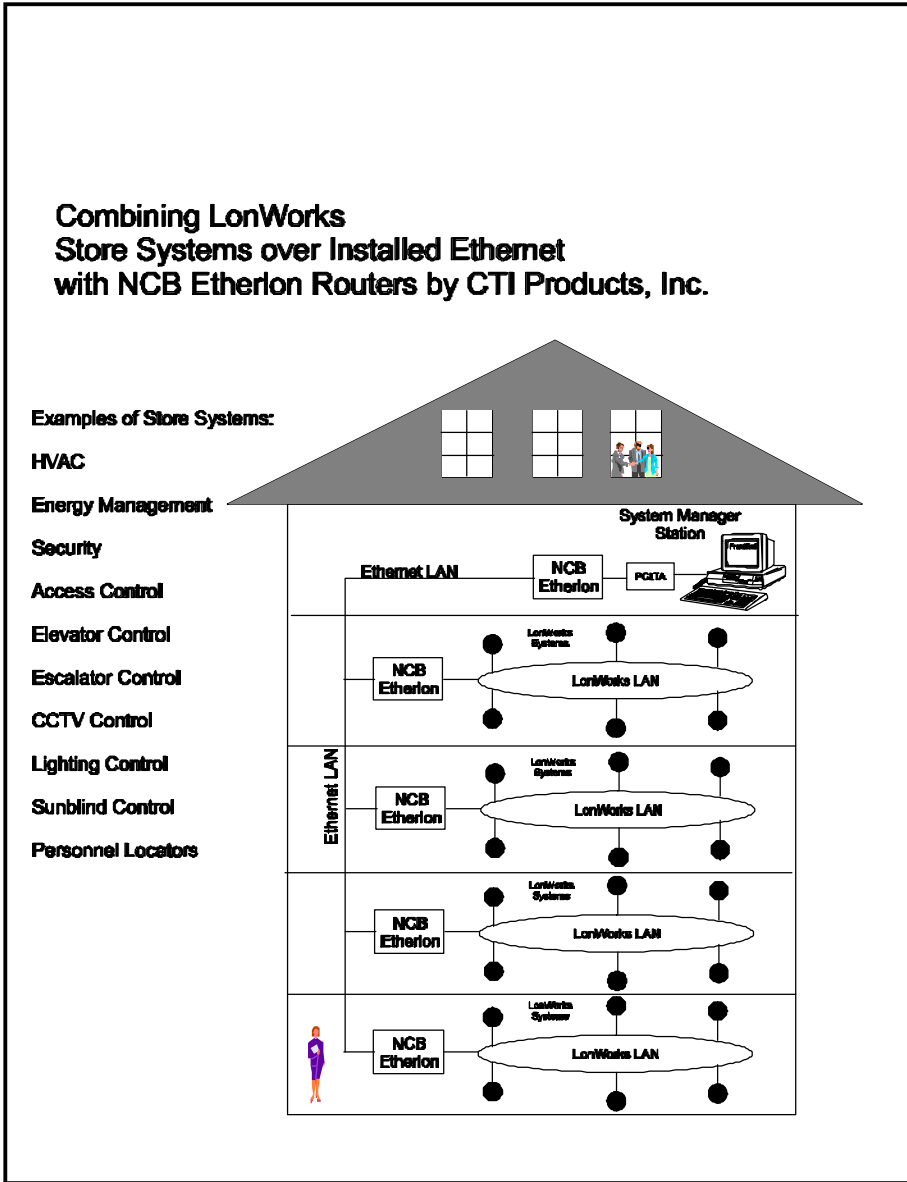
- More centralized control and security
- A higher degree of control and management
- More integrated & interoperable operating systems
- Building-wide and Campus-wide control from a single site

A LONWORKS^{-to-} Ethernet Router, 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 LONWORKS^{-to-} Ethernet Routers.

LONWORKS^{-to-} Asynchronous Routers, like CTI's NCB /AY[™] can be used with their appropriate networks

The resulting BMS/MIS integrated network provides a seamless node-to-node live communications link for LONWORKS BMS segments. The building manager can “see” all LONWORKS nodes in all subsystems using standard network management tools with very little increases in bandwidth.

Suggested Architecture



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