

Web-Based BMS Technology Provides Efficient Building Management to Renowned Bookseller

Barnes & Noble Monroe, NJ

The **Barnes & Noble Monroe Facility** is a one million square foot distribution center, which serves as the corporation's main distribution hub for all of the Northeast. The building's design team insisted that the facility be equipped with a state-of-the-art Building Management System capable of controlling, monitoring, and integrating with the various HVAC, Security, Fire Alarm, Power Distribution, and Data Center equipment.



The Delta Controls system meets the challenges of the design team's concerns and requirements. It provides seamless integration to the larger, factory-packaged Rooftop Units furnished with BACnet-ready controls, and monitors Power Distribution Equipment utilizing Delta Controls-manufactured Modbus Interface hardware. The system integrates the Data Center's Liebert Computer Room Air Conditioning equipment through a BACnet interface to a Liebert Sitelink Panel. Lastly, the Delta Controls family of Application Controllers provide the perfect solution for the facility's numerous warehouse Rooftop Units, office VAV's and supplemental HVAC equipment.

The Barnes & Noble facility is equipped with the latest in web-accessible Graphical User Interface (GUI) software hosted on a web-server, which enables thin-client access. Integrated Building Controls' graphic package includes the following enhanced features:

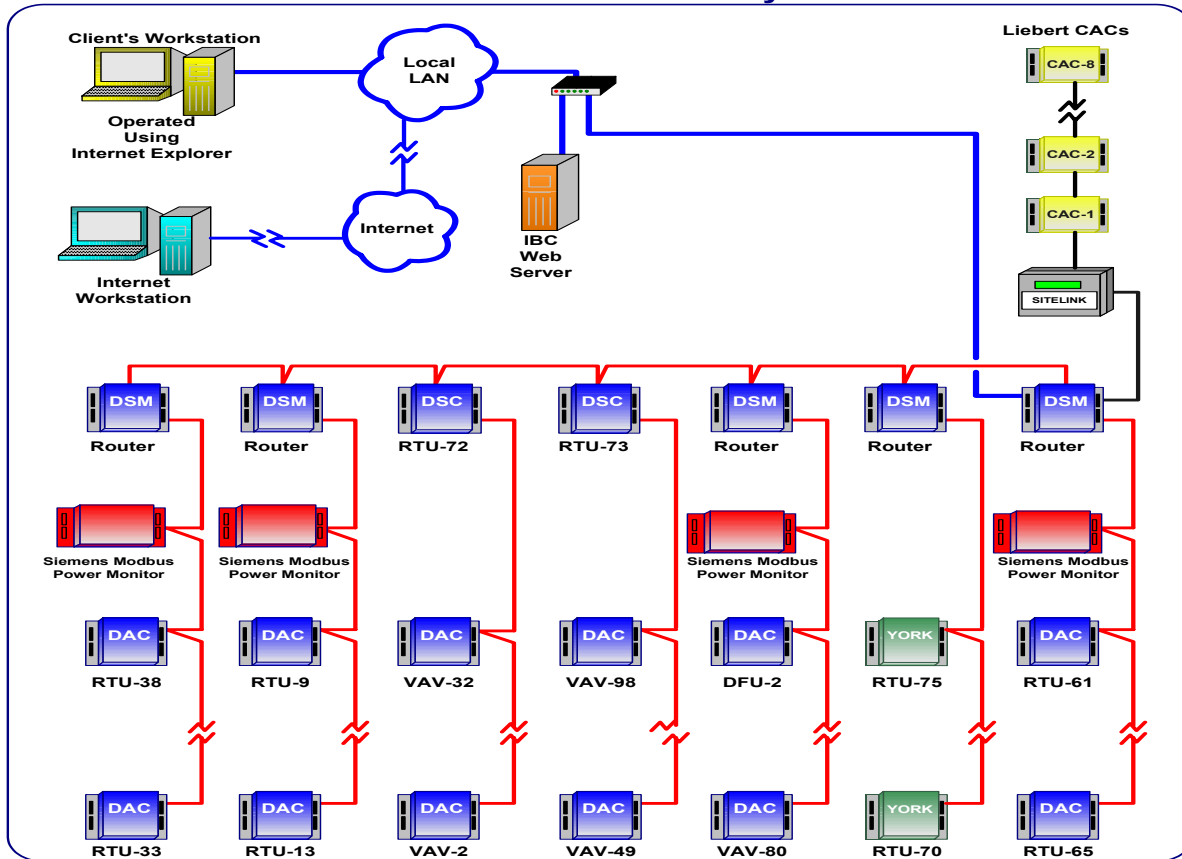
- Web page thermal graphic representations of facility's warehouse and office space
- Hyperlinks to product data sheet pdf files
- Hyperlinks to each system's sequence-of-operation documents

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Barnes and Noble BMS System



Features:

Size: 1,145,000+ sq. foot Facility

Use: Barnes & Noble's BN.com data center and Northeast Distribution Hub

Controlled Systems: Roof-top HVAC Unit Control
 VAV Box Control
 Direct Fired Heating Unit Control
 Exhaust Fan and Transfer Fan Controls
 Humidity Monitoring and Control
 Computer Room AC Unit Monitoring and Control
 Uninterruptible Power Supply Units Monitoring
 Auto Transfer Switch Monitoring
 Power Distribution Units Monitoring
 Generator Monitoring
 Fire Alarm Monitoring
 Air Compressor Monitoring

Control System: Delta Controls

Interface: Thin-client Intranet Access

Documentation: Browser access to equipment parts and sequence of operations from system graphics

As-builts: Browser access to mechanical, electrical, and ATC drawings from system graphics

Security: Firewall, 128-bit encryption, and passwords

Alarm Notification: E-mails and text paging

Protocol: Industry Standard BACnet at all controllers

Integration: Liebert SiteLink BACnet over RS232

Siemens Modbus over RS485

York Bacnet over MSTP RS485