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# Contemporary Controls, Industry Leader for Networking Solutions, Launches a Redesigned Website

The current economic downturn provides us with the opportunity to reflect on our business strategy. Contemporary Controls is recognized for applying Ethernet, BACnet®, ARCNET®, and Controller Area Network (CAN) technologies to automation projects. We support six diverse industries in three territories—the Americas, EMEA and APAC. We want to use this challenging economic period to solidify our position as an industry leader for networking solutions.

To do so, we have launched a redesigned website that showcases our successes across multiple industries, makes it easier for users to access our extensive technical library while promoting our newly redesigned eStore.

Our website now provides solutions pages for each of the six industries we support: Industrial Automation; Building Automation; Commercial Automation; Communications & Networking; Energy, Utilities & Transportation; and Embedded Networking. The solutions pages enable users to find the products, resources and success stories related to their industry. We've included a Custom Solutions page, because no matter how unique the networking requirement, we can leverage our long history of developing products for OEMs in diverse automation industries to meet the challenge. We have a rich inventory of intellectual property that can be tapped for the next generation project.



Contemporary Controls' new website provides solutions for several industries.

Because our customers cite our technical expertise as our strongest competitive advantage, we created an online Learning Center to enable users to find technical supplements, white papers, application notes and training videos. The Learning Center is a comprehensive, searchable repository for our customers.

Contemporary Controls is a global company and the redesigned website makes it easy for users to find regional offices and local technical support. The website is now available in English and German. We are planning to launch a Mandarin-language site and a Spanish-language site soon.

Finally, for our customers located in the Americas, most of the products on our website are available for purchase from the Contemporary Controls' eStore. In-stock items ship within 24 hours. We will be launching eStores for our EMEA and APAC customers in the near future.

Take a look at our new website at:

<http://www.ccontrols.com>.

Let us know what you think. We believe, now more than ever, Contemporary Controls is the ideal partner for applying network technologies to your automation project.

## Prison's Temperature Control HVAC System Yields Overall Efficiency

### CASE STUDY

In mid-2007 prison officials of a male-populated facility in southeastern Louisiana contracted with Computrols (based in New Orleans) to upgrade the prison's temperature control HVAC system. The existing system was old and nearing EOL so replacement parts were becoming scarce. Also, there was a definite reduction in the system's overall efficiency.

Computrols has been a premier BAS manufacturer for more than 25 years. "With an existing relationship with the local municipal government in the area, the company was a trusted source for this project," said Logistics Manager Mike Zapalowski.

The goal of the project was to join different wings of the seven campus blocks to one central monitoring location for control. "Since these buildings would share a common monitored power source and the length of the runs demanded an Ethernet repeating solution, switches were a logical fit for this application," explained Zapalowski.

The switches were deployed as repeaters from one building to the next, connecting the company's 32-point and 64-point DDC line of controllers and other 3rd-party devices to the automation server in the main guard's office. The automation server operated the Computrols Building Automation System (CBAS) program which integrated HVAC, Fire and Access Control all in one.

"Because our controllers communicated via the TCP/IP protocol, we often found ourselves employing consumer-grade switches which proved labor-intensive," said Zapalowski. "This posed several problems including the need to install a high-voltage outlet or power converter in the cabinet. Another concern was mounting options. Consumer-grade switches were rarely mounted on a wall and if you have ever had the joy of attempting it, you would know that it was no easy task."

With the help of Contemporary Controls in Downers Grove, Illinois, Computrols selected an industrial-grade product from this manufacturer's line of cost-effective, Building Automation System (BAS) application-oriented switches. "Industrial-grade switches ensure the uptime which is significant in any BAS as it can make the difference between saving money and spending it," explained Zapalowski. "With the solid performance of these switches, we can eliminate most communication issues and start troubleshooting other areas of concern in the event of any problems quickly and effectively."

Using the EIBA5-100T/R switches eliminated the need to install a 110 V outlet which would have meant more time and materials, resulting in higher project costs for Computrols. "Now, we simply tap into the existing 24 VDC power source in our enclosure and we are up and running," commented Zapalowski. Their compact size (3.3" H x 3.5" W) allowed Computrols' technicians to use the existing NEMA 1 XE enclosures around the facility instead of having to install new, larger ones. These switches also provided a clean DIN-rail mounting solution native to panel installation generally associated with HVAC and building automation controls.

In total eight switches were used to connect each controller between each building and finally to the automation server which gathered the information including the various space temperatures and status from devices such as fans, heaters and the like. The switches were installed in pull/junction boxes along walkways between the buildings. Computrols' technicians used standard CAT 5 wiring to connect all the devices and each Ethernet run was no more than the maximum 300 feet.

With the new system in place prison personnel can monitor the entire campus from a single location. Computrols' CBAS program also enabled the staff to perform maintenance and other tasks that normally would have required service calls to an outside source. Savings were realized both in self-maintenance and tighter energy management control. Zapalowski considered reliability no longer an issue after deploying the switches. "100% uptime, that's what we have. We couldn't ask for anything more."

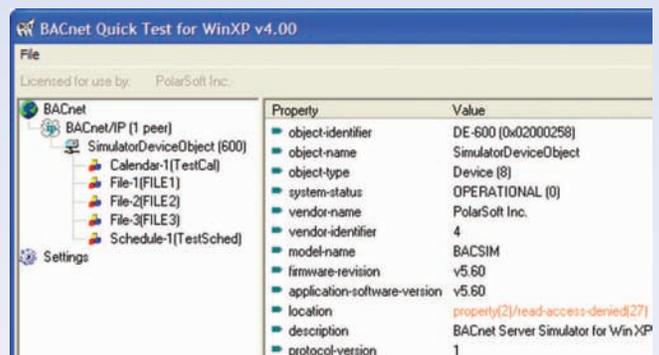
# Technology UPDATE

## How BACnet Tools Can Help You

By Bill Greer, Senior Product Specialist

Installing BACnet devices can be challenging for a number of reasons. You may be dealing with BACnet/IP, BACnet Ethernet, BACnet MS/TP, BACnet over ARCNET, or a mix of protocols. You might have to cope with repeaters, switches or routers.

Regardless of the complexity of your installation, a BACnet tool can greatly assist you. Although many tools are available over a wide price range, you may not need the fancy options of the expensive tools. You will at least want a tool that will discover BACnet devices (wherever they may be on their networks) and their properties.



A modestly priced choice (sample shown above) is the Windows®-based "BACnet Quick Test" from PolarSoft. It reports Device Instances, Vendor IDs, BACnet objects and associated properties. It confirms that devices are communicating on their networks and allows you to read and write object properties. It works with BACnet Ethernet, ARCNET, BACnet/IP and BACnet MS/TP.

Sometimes it is a great help to just know that devices are accessible. A simple "BACnet Discovery Tool" is available for free from Contemporary Controls. Just point your browser to:

<http://www.ccontrols.com/exe/bdt.exe>

## EISK16 Ethernet Switch Provides 16 Ports in an 8-Port Sized Box

The Contemporary Controls' high-density EISK16 switch, which occupies minimal DIN-rail space (1.6" or 41mm) for small areas, is now available for \$279. This Plug-and-Play (PnP) EISK16-100T compact switch provides

16 copper 10/100 Mbps ports in a box smaller than a standard EIS 8-port unit. Housed in a metal enclosure, it provides reliable connectivity for Ethernet automation systems in a cost-effective manner, backed by a five-year warranty.

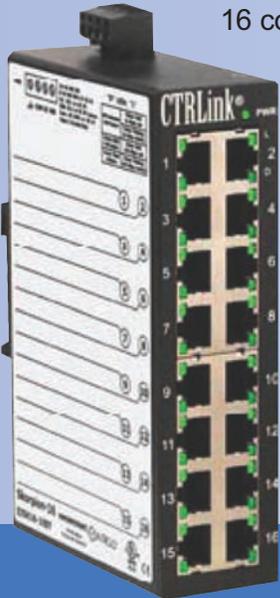
Marketed under the CTRLink® trade name, the EISK16-100T expands the family of Ethernet 5- and 8-port switches. Just power it up, and this unit will auto-configure each port for

data rates at 10 or 100 Mbps and straight-through or crossover cable requirements. These ports support half-duplex operation with backpressure flow control or full-duplex operation with PAUSE control.

This device does not need any configuration or software, making installation simple. With Auto-MDIX support, no crossover cables are required when connecting to another switch.

Convenient mounting is available with the attached DIN-rail clip. Low-voltage 10–36 VDC or 24 VAC (±10%) 47–63 Hz powers this product. It will operate in 0° to +60°C temperatures.

For full details, please contact Sales Manager Joe Stasiak at (630) 963-7070 x116 or [jstasiak@ccontrols.com](mailto:jstasiak@ccontrols.com).



## EMEA NEWS

### Expanding Boundaries

Expanding Boundaries was the theme at the Niagara Forum held on March 30-31, 2009 at the lovely Beaumont House Conference Center in Old Windsor, England. The theme was quite appropriate as speakers related their success stories deploying Tridium products over IP networks. The new business model is Smart Services — where system integrators are selling around-the-clock remote building monitoring services instead of just equipment. This is another example in which the Internet has fundamentally changed the way business is being accomplished.

Sponsored by Tridium EMEA, the two-day conference included an exhibition in which Contemporary Controls EMEA participated by displaying its CTRLink® Ethernet and BACnet products including the BAS Router and BAS Remote. With 175 attendees from many parts of Europe, these focused forums provide an excellent opportunity to meet with system integrators and vendors while discussing industry issues. Although 85% of Tridium's business is in building automation, their Niagara Framework is applicable to other automation industries as well.

Tridium positions its Niagara Framework as operating at the integration level. They are fieldbus agnostics freely accepting Modbus, Lonworks, and BACnet devices to their JACE building controllers. The JACE controllers communicate as peers over TCP/IP Ethernet networks but they soon will be communicating with wireless networks such as WiFi and 6loWPAN.

The clear message from Tridium is that everything is moving towards IP — the Internet Protocol. It is a message that Contemporary Controls believes in!



Business was brisk during the breaks as attendees studied Contemporary Controls' Ethernet and BACnet products.

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## Events

We exhibit at conferences and seminars to keep you informed on what's happening in the building controls and automation marketplace.

**VYKON Mini Summit**  
June 18-19, 2009  
Mt. Pleasant, MI USA

Celebrating More Than



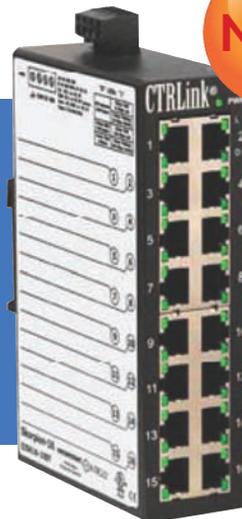
Years in Control

# LATEST NEWS

- Contemporary Controls launches a redesigned website that showcases our success across multiple industries.
- Take the complexity out of installing your BACnet® devices with the proper tool.
- Learn how to apply BACnet routers in the field.

## The New EISK16 Switch

- Robust, compact unit for \$279
- For application requirements over 8 ports
- No configuration necessary
- Auto-negotiate all parameters



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