

light+building 2008, Hall 9.1, Stand B59

BACnet: From Building Automation to Field Bus

BIG-EU presents innovative BACnet products for unlimited, cost-effective building automation

Dortmund/Frankfurt, Germany – April 6th, 2008 - The BACnet common stand at light+building is a show case for innovative BACnet technology. Members of the BACnet Interest Group Europe (BIG-EU) will inform visitors about their products in detail like never before. 30 exhibitors will have their devices networked together and will show their integration solutions from central building control systems to home automation. As a world standard BACnet products offer the most cost-effective building automation solutions, which are future proof.

WAGO is presenting its BACnet/IP-Controller (Device Profile: B-BC), a freely programmable device for a variety of building automation, control and regulating tasks. The device is part of a modular, compact I/O System. The controller seamlessly integrates into the WAGO I/O-SYSTEM 750, allowing it to be combined with more than 300 different input, output and subbus terminals for DALI, EnOcean, and KNX TP-1, etc. The benefit for users is a cost-effective, scalable, modular solution as described above. Users can program the device using IEC programming Wago-I-PRO CAA software. **TAC** will be at the booth with their Continuum bCX1 Series, a series of native BACnet routers and controller/routers. It is available in three models, two of which support the BACnet protocol. These controllers can serve as a BACnet Broadcast Management Device (BBMD) and route messages between IP networks. They provide support for features such as BACnet trend logs, calendars, schedules, and embedded Web servers.

Low Operation Costs and Flexible Expansion

At the BACnet booth SYSMIK will provide information about its graphically programmable controller ICS-852MX-B with standardized interfaces for building automation, BACnet/IP, EIA-709 TP/FT-10 and EIA-852 LON/IP as well as for Web servers and Web services for automation, coupling of different communication protocols and Web visualisation. ICS-852MX-B integrates multiple device functions into one device. DESIGO™ is the name of the building management system by SIEMENS. It is a unique system with comprehensive functionality, native BACnet management, a plug&play operator unit and extensive control strategies for maximized energy efficiency. Users enjoy minimal life cycle costs, the lowest operating costs and flexibility.

The room automation system X-RUS and E-DDC controller, both by SE-ELEKTONIC, guarantee open communication with BACnet . X-RUS offers self-sustaining functions for building management systems. All components for measuring, control and regulation are connected by one "room bus", thus the thermal load of the complete building is reduced. The new SAUTER System EY-modulo 5 is the result of SAUTER's years of experience with providing energy efficient products. The BACnet/IP components such as the automation station modu525 and the room controller eco502 allow for a completely integrated building management system, from the individual rooms to the building's entire energy distribution.

The flexibility of the Automationsystem TROVIS 6600 is provided by SAMSON; the competent handling of projects by the product, including process control systems and system integration, is provided by SAMSOMATIC GmbH. This BACnet building controller has an integrated Web server and a scalable and freely configurable automation system. TROVIS is suitable for all types of installations and consists of CPU-Modul, I/O-Modul and Web terminal. SAIA BURGESS shows building and process automation systems with BACnet and embedded eXP Web panels with BACnet SCADA systems. The Saia controller is set apart from other controllers

through flexible and graphical programming, embedded flash file trending, an embedded Web server and BACnet compatibility for more than 1000 objects, which support much more than just the BB-C profiles.

Open Interfaces for Integrating All Types of Systems

PRIVA with its BACnet Router shows how to manage and maintain an HVAC system via BACnet. The Priva BACnet Router converts new and existing Priva projects into “interoperable” BACnet applications. The router can also integrate third party installations. The configuration is simple, the maintenance easier than ever before, and all new and existing Priva objects become “open”. The Universal-Gateway Compact is MBS’s highlight. It provides an excellent ratio in terms of data points. BACnet routers configure connections from BACnet field devices to the automation and/or management level in building automation systems using simple cabinet-modules. The BACnet OPC-Server provides easy-to-configure connections from BACnet networks to SCADA-systems.

The DDC4000 automation station with native BACnet by KIEBACK&PETER offers independent solutions for different structure types and sizes. This automation station with touch screen and plain text navigation display provides clear information. Interfaces allow the integration of third party systems and the ability to complete complicated tasks. The bus module controller BMR with an integrated Web server can be used for heating as well as ventilation systems. JOHNSON CONTROLS with its Network Control Engine NCE 25 TEC 2000 succeed in using BACnet between the management and field levels. At the BACnet booth at light+building Johnson Controls shows the strenghts of its BACnet Building Controllers using an example of a ventilation system. The BACnet MS/TP protocol is used as a field bus.

For anyone who wishes to start a BACnet project the BACnet-Watcher and the BACnet Controller by INH/HHO-AUTOMATION is a good-value and offers a cost-effective start. Both allow the control, monitoring, configuration and commissioning of

BACnet products without central BACnet supervision. Configuration as well as operating will be explained at the booth.

Highly Developed Energy Management Solutions

HONEYWELL shows an open building automation system with Excel Web, a scalable BACnet Building Controller based on Linux OS Basis with embedded Web server. Honeywell, a company which offers turn key solutions and manages installations, places high value on highly developed energy management solutions which contribute to reduced operating costs. DELTA CONTROLS exhibits integrated BACnet System architectures, from the BACnet Operator Workstation GLT to individual room devices and BACnet room displays. Delta provides an entire line of native BACnet controllers for HVAC applications like fan coil controllers, VAV, room and wireless sensors as well as controllers for access control and lighting.

ALERTON displays pallet of its BACnet programmable controllers VLX, VLC-444 and EXP 1048 and its intuitive Microset II sensor. Alerton offers applications which include building automation solutions for all types and buildings sizes. Alerton is a pioneer in terms of Direct Digital Controls (DDC) technology and the first to offer a Windows based operator work station. ABB will be at the BACnet stand with its ACH550 drive especially designed for HVAC applications. It offers embedded BACnet support with direct connection to MS/TP LAN. The drive can be controlled via BACnet, all MS/TP baud rates. Master functionalities are supported as well. 16 configurable I/O's are available via BACnet.

Further products by INGA, I.T.E.N.O.S, MESSNER GEBÄUDETECHNIK, PLÜTH, GFR, TREND, TRANE and WONDERWARE will be presented at the BACnet stand. The BACnet communication standard has been especially developed for building automation systems and was approved as ISO standard 16484-5 in 2003. More and more investors, planners and integrators are recognizing the open configuration

possibilities. For manufacturers and vendors BACnet as become a passport for participation in all types of project bids.

About the BIG-EU

The BACnet Interest Group Europe e. V. (BIG-EU) promotes the application of the worldwide BACnet communication protocol ISO 16484-5 in European building automation and safety engineering. It was founded in 1998 by 18 companies dealing with building automation. Today it has 80 members from Czechia, Belgium, Denmark, Germany, England, Finland, France, Ireland, Italy, Canada, the Netherlands, Austria, Switzerland and the USA. The BIG-EU represents European interests in the worldwide development of the BACnet standard. Therefore, the BIG-EU interacts with the American BACnet Manufacturer Association (BMA) and the ASHRAE Standing Standard Project Committee SSPC 135, which is assigned by the ISO the care of the BACnet standard. The BIG-EU increases BACnet knowledge in Europe with common marketing and qualification offers. For further information see www.big-eu.org/.

BACnet is a registered trade mark of the American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. (ASHRAE)

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