



Continuous automation with BACnet

Energy and cost efficiency on the BACnet booth at ISH 2007

Dortmund, March 2, 2007. – Premiere at ISH 2007: The first BACnet joint booth at the ISH shows how BACnet is becoming an essential component of building automation technology. Ten members of the BACnet Interest Group Europe (BIG-EU) present devices that communicate via BACnet. Networking the devices enables the creation of manufacturer-independent, high-capacity automation systems for functional buildings. The BACnet-standard ISO 16484-5 provides continuous solutions for automation and building control. The performance show, “BACnet on the move”, takes place in hall 10.2 at booth D 60.

Open systems that “speak” BACnet are in the spotlight at the BACnet exhibition. They provide cost-effective building administration combined with maximum comfort. The BACnet standard is characterised by added value features such as energy and cost efficiency, protection of investment and simple handling. Thus, it is the favourite choice of planners and owners as well as manufacturers and industrial firms.

A further advantage: BACnet comes from the HVAC-sector and is customised for this market. The diversity and openness of the BACnet-standard is strengthened by features such as light control, energy data management, security systems and other subsections.

BACnet components optimally utilised

The BACnet exhibition at the ISH shows how BACnet components are optimally used in building automation technology. The performance show covers a wide range of different applications and special assignments. From building control technology via automation stations to control systems for lighting and actuating drives for supply air and exhaust air.

ABB Automation Products GmbH presents the ACH550 frequency converter. Designed specifically for the HVAC range, it offers pre-settings for supply and exhaust air and can be completely controlled via BACnet. ABB supports BACnet – just as other manufacturers – as the open communication protocol for automation in building technology. I.T.E.N.O.S. GmbH is a service provider in the fields of information technology and telecommunication and offers platforms for efficient systems and building management. The system platform, activeOperation, links BACnet stations even in heterogeneous building structures. The open control management system handles the interaction of most different terminal equipment based on BACnet.

Control systems for building automation technology are the domain of Johnson Controls Systems & Services GmbH. The recent enhancements to the Metasys building automation system are presented at the BACnet booth. In addition to the NAE type Control Engines, Johnson Controls launches the Network Control Engine (NCE) which is freely programmable. The NCE supports the BACnet B-BC profile and further BACnet Interoperability Building Blocks such as DS-COV-A. KNX is an open standard for home and building control. By means of the standardised mapping between BACnet and KNX, the pre-requirement for a functioning interface between the standards has been created. The KNX protocol is a standard for the



field bus level. KNX creates an open and transparent communication between the sensors and actuators involved.

Success with BACnet products

Messner Gebäudetechnik is represented with the miles-AS29/B BACnet controller. The closed automation station uses BACnet and processes 768 physical data points. The BACnet miles-view BMS controls and visualizes the connected systems. Current values, conditions and messages are combined and clearly arranged. Neuberger provides complete solutions for building automation with the ProGrafNT control technology and the PMC automation system. BACnet/IP is used amongst others for open bus communication. Applications in energy supply, office-, hotel- and school buildings are the most important fields of application.

Plüth Regelsysteme GmbH owes its business success to BACnet technology. Plüth presents its BACnet portfolio with the COSMOS 4000 OPEN and 800 OPEN BACnet controllers. BACnet systems can be programmed with the FUP-XL software for function planning. Thus, the service effort is reduced by up to 70 percent. The native BACnet COSMOweb BMS software provides simple operation and control.

Lighting and sun protection control in agriculture and industry is the field of the Dutch supplier, Priva. Individual control is possible in combination with other sections thanks to continuous BACnet communication. All functions are controlled by Comforte CX. With the TC BACnet router, all Priva stations can be utilised as BACnet building controllers. Sauter's objective is openness with full functionality. Their BACnet automation station works as server and client. Their interfaces to the field level enable the connection of external systems. The management level is established as a BACnet client with native BACnet driver. The nova 250 touch panel is an operating tool for the automation level with convenient display and graphics functions.

BACnet solutions grow in influence

The number of the BACnet installations is globally increasing. American market research studies assume increased growth. The number of European BACnet members is increasing and the BIG-EU denotes a stronger demand for training. Manufacturers increasingly identify their products with the BTL-Logo. They thereby prove that their product complies with the BACnet standard.

BACnet enables open, interoperable building automation in functional buildings. The communication standard is finding its way into office and hotel buildings, training and shopping centres. In multi-vendor projects BACnet ensures a single language across all subsections and systems. This ensures that BACnet solutions are sustainable and future proof. The application of the BACnet standard is steadily growing in influence, as this selection shows:

BACnet at trade fairs

- Neue Messe Stuttgart
- Nuremberg Trade Fair
- Neue Messe Munich

BACnet in office buildings

- HUK Coburg
- Allianz main administration in Unterföhring
- Neues Kranzler Eck Berlin
- Swiss Re Unterföhring Park

BACnet in research and science

- Otto-von-Guericke University Magdeburg
- Ludwig-Maximilian University Munich
- Leibniz Data Processing Centre
- Munich Technical University
- University of Potsdam

BACnet in hospitals

- Charité Berlin
- St. Olavs Hospital Trondheim

BACnet in industry

- Stihl AG Waiblingen
- Hugo Boss AG Menzingen
- Temic Telefunken Nuremberg
- Carl Zeiss SMT Oberkochen

BACnet in administration

- Frankfurt police headquarters
- Jakob-Kaiser-Haus Berlin
- Correctional facility in Sehnde
- Hanover municipal utility

BACnet in logistic buildings

- Cityport Zürich
- Aldi-Süd logistic centres

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 70 members from Belgium, Germany, England, Finland, France, 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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