

The world of building automation speaks BACnet.

Welcome to the first training of the BACnet Europe Academy in Milan.

BACnet is the world wide communication standard EN ISO 16484-5, a non-proprietary, licence free and system-spanning standardisation and the market has witnessed its great potential. Open systems can be realised with BACnet. Open building systems offer a variety of technical and economical advantages. They allow the easy integration of different systems – such as security, access control, wireless applications and energy management – to efficient overall systems. Due to their interoperability, these systems' easy expandability applies to all manufacturers as well as all integrated solutions. The result is powerful, non-proprietary, overall systems, which are elementary for modern building automation.

This BACnet Training introduces the global communication standard for building automation and it gives an overview of the dynamic development of open standards. It will show where BACnet is located within the ISO/OSI reference model, and which data transfer methods are provided. Moreover, how BACnet objects are referenced in the standard object types will be both introduced as well as explained.

Training – 9.00 a.m. – 17.30 p.m.

Introduction to Building Automation via BACnet

Basics of interoperable building automation (BA)

- Introduction to building automation and terminology e.g. “common” data points, data types and functional levels

BACnet, the global BA network standard (why BACnet?)

- The BACnet committee with ISO/CEN servicing contract: ASHRAE SSPC 135
- Introduction of the world standard EN ISO 16484-5
- BACnet world-wide: interest groups and their web pages: BACnet Interest Group Europe, BI, BTL
- Trade fairs with BACnet communal booths, reference projects

BACnet DATA Link Layer (Whereby is communicated?)

- BACnet in the ISO/OSI reference model
- The planned standardized data communication methods (transport protocol as a reference to standards)
- Representation of the network topologies, router and half router
- Explanation of a BACnet network example

“The BACnet language” and its components (How does BACnet work?)

- Introduction to standardised object types
- Presentation on communication services with access functions and groups
- Special functions like value-discrete transmission (COV – Change of VALUE) based on threshold value
- BACnet incident and alarm management, object-internal and rule-based messages (Intrinsic and Algorithmic Change Reporting), message classification
- BACnet procedures for command prioritization
- Example of an operating calendar and a schedule
- Data recording with the help of the BACnet trendlog object

The (automatic) data flow control in the network

- Referencing BACnet objects
- The application of object names
- Project rationalization and “offline” configuration
- Using the EDE-file
- Project overview using B-PAT file

Integration of BACnet in IT environments

- BACnet communication in an Ethernet/IP environment
- Use of BACnet tunneling routers
- Special situations with BBMDs and foreign devices

Testing and demonstrating the conformity of BACnet products

- Manufacturer's declaration „PICS“ and „Epics“
- Working with the interoperability of „BIBB“ building blocks
- Presentation on the device profiles and device classes

BACnet, the overall BA network standard

- Possibilities of manufacturer-specific extensions

Target group

The training is aimed at developers and product managers, project engineers and planners, consultants and integrators as well as all who run and operate building automation.

Objective

Each participant will learn the basic technical knowledge of BACnet for interoperable building automation with the world wide standard EN ISO 16484-5. This way he will learn how to evaluate the BA network techniques and how simple the specifications of interoperability areas are.

Head of Training

Frank Schubert,
Head of Sales and Marketing, MBS GmbH,
Krefeld, Germany
Member of the BIG-EU Advisory Board

Documentation

Each participant will receive a detailed documentation of training with all the lectures and working tools on CD-ROM.

Certificate of attendance

Participants will receive a certificate of attendance.

Cost saving and energy conservation with Non-proprietary data communication

“Hard to reach goals such as cost-saving and energy conservation in addition to advanced flexibility of technical building equipment can only be attained with a non-proprietary, high-performance and future-proof data communication norm. The sensible integration of diverse systems and trades enable this achievement.”

H. Michael Newmann

Founder of the BACnet standardisation committee SSPC 135

Registration

Please register at your own convenience by email, fax or letter.

E-Mail: info@big-eu.org

Fax: +49-2 31-42 78 67 32

BACnet Interest Group Europe (BIG-EU)
Droste-Hülshoff-Straße 1
44141 Dortmund
Germany

Participants:

Company: _____

Name: _____

Function/Position: _____

Department: _____

Street/Postbox: _____

Postal code, City: _____

E-Mail: _____

Telephone: _____

Date/Signature _____

I am interested in membership of BACnet Italy

Training venue

Grand Hotel Barone di Sassj
Via Padovani 38
20099 Sesto San Giovanni (MI)
Tel.: +39 0224114.01
Fax: + 39 02 24114000
www.caltahotel.it

Participant fee

548,00 Euro
488,00 Euro for Members of BACnet Italy or BIG-EU
VAT will be added.
A CD of the documentation for the entire training,
as well as lunch and drinks during breaks are included.

Payment and cancellation conditions

Please pay only upon receipt of invoice. You will receive a bill with the confirmation of registration. The participant fee is due immediately upon receipt of invoice. For written cancellation applied for, on or before 17 May 2009 half the fee will be refunded. For cancellations after that date, the full conference fee will be due. Participants are entitled to training documentation. Of course, a substitute participant may be named.

Host

BACnet Interest Group Europe (BIG-EU)
Droste-Hülshoff-Straße 1
44141 Dortmund
Germany

Organisation and Administration

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*Learning, understanding, planning
and specifying building automation
management with BACnet*

Milan
17. June 2009

Training
**Introduction to building
automation via BACnet**

ISO 16484-5

- Basics of interoperability
- Why BACnet
- Object types and services
- Project planning
- Conformance testing, BTL Logo and BIG-EU certificate

The training will be conducted in English

