CS
Lab

BS

BACnet stack | Embedded
The be-all and end-all for developing
BACnet-compliant applications

BACnet stack | Embedded

The functional scope of the BACnet stack | Embedded is suitable for the development of BACnet servers according to all common profiles such as: B-SS, B-SA, B-ASC, B-AAC … etc. Datalayer: IP, Ethernet, MS/TP and BACnet/SC. It supports developers in the implementation of BACnet-compliant applications that run on embedded applications. The time that this saves in the development process usually amounts to several months.

The stacks from CS-Lab as well as our services take the pressure off both manufacturers and developers alike, who need to implement the communication standard, and this makes their work a whole lot easier. Of course, every revision to the standard is implemented into the software stack. The current revision, Revision 23, with the brand-new security infrastructure Secure Connect (BACnet/SC), is already available for programming.

DISCOVER FUNCTIONS

BACnet-compliant routines for operation

Routines of the BACnet stack | Embedded for microcontrollers take over the standard-compliant operation of the BACnet protocol. BACnet Protokolls.

Convenience:

The development of standard-compliant applications is made much easier.

Flexibility:

Automation stations can be programmed in the same way as miniature devices (e.g. heat meters).

Many details are automatically processed:

This enables the functionality of the BACnet objects to be implemented as an object database. In addition, various mechanisms and fallbacks for obtaining values from field devices have been built into the code.

Powered by MBS

With the BACnet stack | Embedded for microcontrollers, CS-Lab is continuing the functionality and reliability of the MBS software.

Protocol Revision 23

The CS-Lab BACnet stack | Embedded for microcontrollers supports Protocol Revision 23.

Typical device profiles

Ideal for the implementation of: e.g. B-SS, B-SA, B-ASC, B-AAC-Profile … etc.

Target hardware

The BACnet stack | Embedded is intended for modern microcontroller systems, such as: 32-bit Arm Cortex-M4 or similar

Implementation without an operating system

The BACnet stack | Embedded can be implemented without an operating system. Cooperation with typical real-time systems, such as Keil RTX, ThreadX or similar, is also possible.

TECHNICAL DATA

Protocol conformity

Combined with correct implementation by the user, the BACnet stack | Embedded for microcontrollers ensures accurate implementation of the BACnet protocol. BACnet Protokolls.

Integrated object database

The BACnet stack | Embedded for microcontrollers provides you with ready-to-use solutions for all supported standard object types. High-level API for setting and calling ‚property values' and getting feedback on changes.

Implementation language

Stack and API are implemented in standard C.

Static memory assignment

All memory resources for the BACnet stack | Embedded for microcontrollers are assigned at the reset time.

System resources tailored to the required functions

Macros control the optional functions in great detail. Code and memory resources are only issued for the configured product features.

SERVICES

Training

All licence models include one day of training at CS-Lab in Krefeld

Optional:

Pretesting Services

Pretesting according to BTL in preparation for your certification.

Maintenance contract and product support

(e.g. regular updates).

Additional development services

We also offer individual development services for the BACnet stack | Embedded – from the initial idea to completion.

BACnet STACK | EMBEDDED DATALAYER

- IPv4, IPv6, BACnet/SC
- Ethernet
- BACnet MS/TP

The functional scope of the stack is suitable for the development of BACnet servers according to profile:
z.B. : B-SS, B-SA, B-ASC, B-AAC ... etc.
The current revision 23 with the brand new security infrastructure Secure Connect (BACnet / SC) is already available for programming.

LICENCE MODELS

The BACnet stack has been created for the development of BACnet-standard-compliant applications. The complete C-source code is issued upon the signature of the licence agreement. All licence models include one day of training at CS-Lab in Krefeld.

Library Leasing p.a.
The programme library is available for use for a limited period of time.

Library Buyout
The programme library is available for use on a permanent basis.

Source Buyout
The source code is permanently available for use.

OPEN-SOURCE SOFTWARE LICENCES

CS-Lab Software may contain open source software. A list of the possible software and the license conditions for the software packages can be found at:
http://www.cslab.de/open_source_informationen

You would like to buy the BACnet stack?

No problem.
We will be pleased to take your order by email :

Buy now

or by telephone:
+49 21 51 72 94-0