

Acknowledged Sauter expertise: BACnet as global ISO standard.

We passed the test! To ensure that BACnet systems which are only partially open are no longer offered in the future, the WSPLab in Stuttgart (the European counterpart of the USA's BACnet Test Laboratory or BTL) has been testing BACnet devices since January 2004. Sauter is one of the first companies to have passed this test, and the BACnet European Interest Group went on to grant Sauter the right to carry the BTL symbol.

Since 2003, BACnet has been the worldwide ISO standard (16484-5) for open communication in the building automation sector. This standard integrates various facilities and/or control products of different makes to create one common building management system.

BACnet stands for Building Automation and Control network, and it is a registered trademark of ASHRAE, the American Society of Heating, Refrigeration and Air-Conditioning Engineering.

Unlike other approaches based on general automation, this is a standard that has been created by experts in our own sector to cover all requirements from the user's viewpoint, so its long-term survival is guaranteed.

BACnet means increased security for investments.

Sauter was already contributing its expertise while the BACnet standard was being compiled. Since 1997, more than 100,000

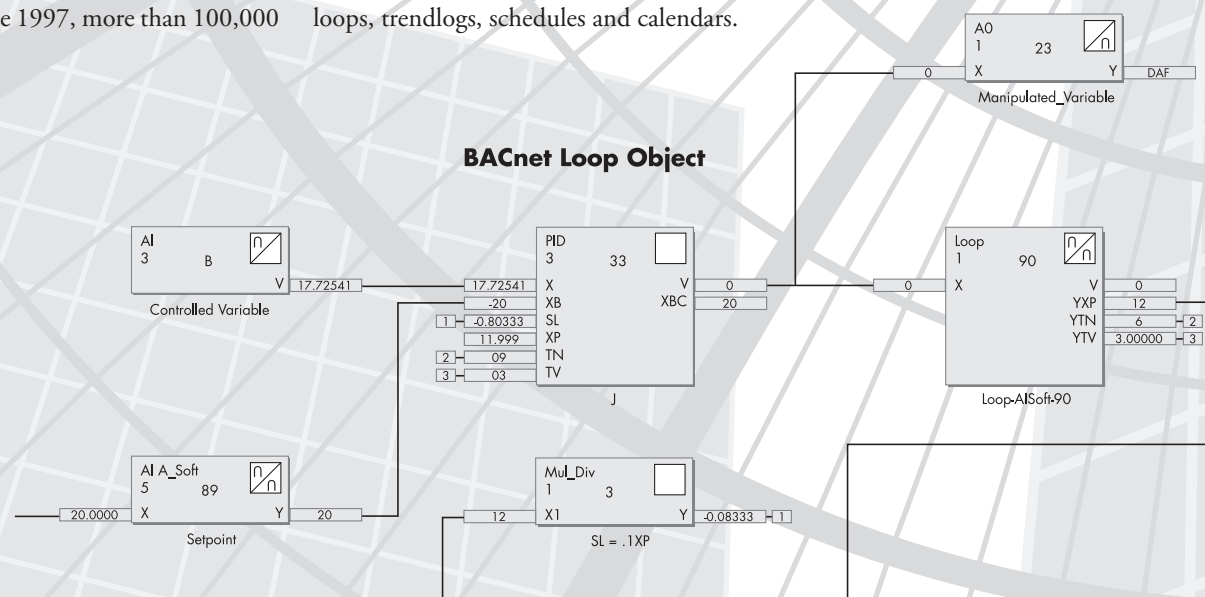


BACnet data points have been implemented, providing project investors with a high level of security for the future.

Open as well as fully functional

Sauter has consistently developed the object-orientated approach of BACnet, going on to implement complex objects such as loops, trendlogs, schedules and calendars.

The management level of open projects is implemented by Sauter and by the direct co-participants in the market and open SCADA systems, in more or less equal pro-



portions. The distinguishing feature of the Sauter solution with novaPro Open is that it provides a direct BACnet connection (native BACnet Client). This makes it stand out from the general solution with an OPC Server/Client interface 'connected in between'.

Existing network structures are used

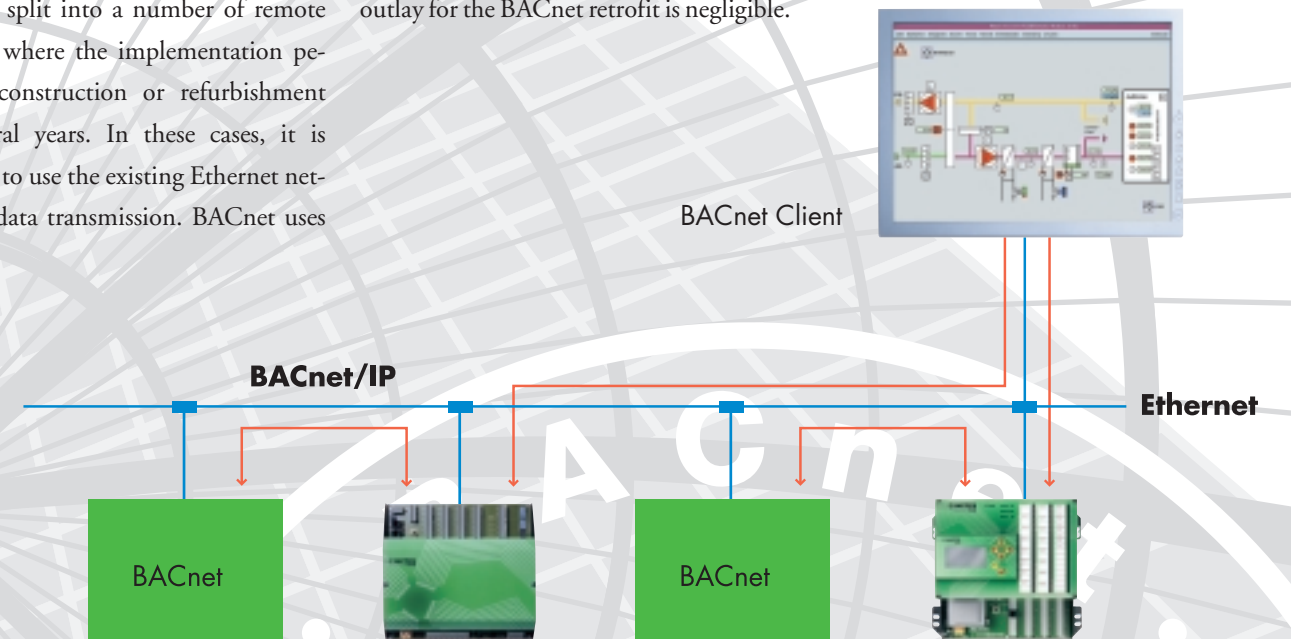
Preferred projects for BACnet include properties split into a number of remote locations, where the implementation period for construction or refurbishment lasts several years. In these cases, it is preferable to use the existing Ethernet network for data transmission. BACnet uses

Company-specific solutions and BACnet are moving closer together

Existing projects can be opened for BACnet at any time by retrofitting a BACnet communication processor in EY3600 automation stations. A double-processor solution of this sort provides the performance of a high-capability 32-bit central unit for local automation and BACnet communication tasks. The service outlay for the BACnet retrofit is negligible.

ish from the market altogether – and Sauter is well-equipped to meet this requirement as well!

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network management services to provide transmission to all participants (broadcast). These services cannot be processed by standard Ethernet routers for the connection of different network segments. The solution is called BBMD (BACnet Broadcast Management Device). The BBMD function is integrated into Sauter's BACnet automation stations.

The automation station as a BACnet server and peer-to-peer data exchange

Alongside the use of automation stations as BACnet servers, 'peer-to-peer' (as they are known) have now become available for data exchange between the DDC stations. In this case, the DDC stations (as BACnet clients) can read data from other stations, write data and process event reports.

Increasingly widespread

The global acceptance of BACnet means that this solution will become increasingly established. External signs of this development have included the 1st International Interoperability Workshop initiated by the B.I.G. - EU at WSPLab of Stuttgart in November 2003, and the multivendor installation on the joint B.I.G. - EU stand at the 2004 *Light & Building Fair* in Frankfurt.

But despite these successes, BACnet solutions will not be the only ones available in the future. According to a study by management consultants *Frost & Sullivan*, company-specific solutions will never van-

Sauter offers a variety of BACnet products:-

- Integration of various automation stations into Sauter's EY3600 novaPro Open management level
- BACnet automation stations:
 - EYK220 compact station
 - EYK300 modular station