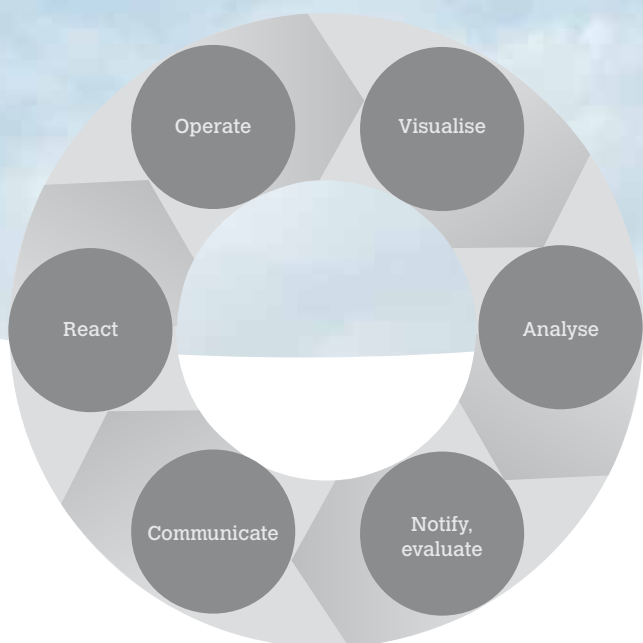




# SAUTER novaPro Open

Building management – open, flexible and energy-efficient



Step into the future with the SAUTER novaPro Open, with **guaranteed** forwards and backwards compatibility.

**SAUTER means maximum protection for your investments.**

A company that has been committed to increasing efficiency for more than 100 years knows how important it is to maintain compatibility and protect investments. With SAUTER novaPro Open, SAUTER has proven yet again its ability to advance technology while preserving existing values. We are continuing to develop our management and visualisation software step by step, making building management – and all its consequences – visible to our customers. SAUTER novaPro Open enables automation stations of the latest generation – such as EY-modulo – to 'co-habit' with existing systems such as EY3600. This enables us to guarantee compatibility with both the past and the future.

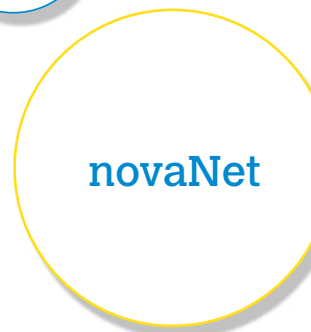
# The special building management system is **open and flexible**: to ensure maximum efficiency

## **Open communication and everything that makes you flexible, safe and reliable – thanks to SAUTER.**

SAUTER believes that efficiency begins with flexibility. The SAUTER novaPro Open software was developed by specialists for all the specific requirements of building management, such as in hotels, office complexes, public buildings, hospitals and pharmaceutical laboratories. The functions available to users of SAUTER novaPro Open provide all the right answers, particularly when it comes to meeting the strict guidelines of the FDA. Its wide range of functions and its openness allow us to respond flexibly to individual customer requirements. For instance, SAUTER novaPro Open can handle large or small systems, both existing ones and new ones alike. SAUTER novaPro Open speaks practically all the common communication protocols and helps to integrate all the sub-systems. As is to be expected, open interfaces are also supported.

### **The latest technology with SAUTER novaPro Open:**

- Seamless integration of SAUTER systems and sub-systems
- The very latest web technology for efficient access and centralised control
- Comparison of target and actual values for an instant overview
- Comprehensive data recording and evaluation thanks to object orientation and BACnet
- Monitoring and analysis of entire installation groups
- Scalable, from small to very large



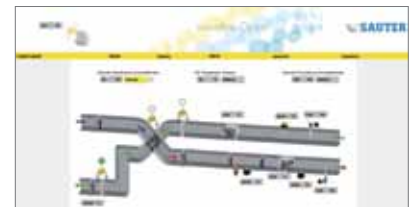
"For over ten years, we have been operating all the specialist sub-systems in our properties with just one management system. Today we use web technology."

Where genuine **energy efficiency** is immediately apparent: trends, audits and the right reaction every time.

**Much more than just navigating and measuring:**

**SAUTER actively optimises the consumption levels**

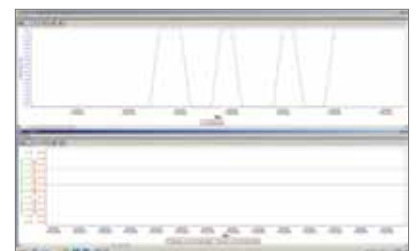
SAUTER novaPro Open keeps you in the picture – quite literally! Clear logs, real-time records of alarms, long-term statistics, trend graphics and permanent monitoring – all of these help to achieve the maximum energy efficiency in your building. Benchmark comparisons help you to monitor your energy consumption constantly and, therefore, keep an eye on costs. At the same time, SAUTER is always at hand with its tried-and-tested suggestions for energy optimisation, based on many years of experience.



Intuitive visualisation provides efficient monitoring with short response times.

**Faster reactions mean greater savings.**

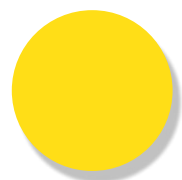
The management system's web technology allows remote monitoring and operation from the location of your choice. This gives you a picture of the consumption of power, gas and oil, so you can react rapidly to events and, if necessary, take the appropriate action to improve the situation. SAUTER novaPro Open has special analysis tools with intuitive menu navigation to ensure easy operation. This reduces running costs, because the targets for monitoring and functionality can be achieved with less time and labour.



Clear trend graphs display the energy consumption of your building.

**SAUTER novaPro Open supports the following applications for optimising energy consumption:**

- Monitor for peak electrical loads
- Monitor for peak gas loads
- Weather forecasts
- Heating optimisation
- Cooling optimisation
- and others



## Diverse applications and functions provide **safety and flexibility.**

### **Flexible in the use of rooms.**

For buildings where rooms are used flexibly, it is important that the system can adapt easily to any changes in the room layout. With segments as the basis, changes in the room management are activated with just two clicks using novaPro Open ecosFlex. The adjustments can be made quickly and easily by means of a user-friendly display. This room configuration can be performed manually on a case-by-case basis or even automatically according to a given schedule.



Flexible room division with master-slave function.

### **Complying with the rules on security.**

The guidelines of the FDA require various increased safety levels as parts of a complete system. SAUTER novaPro Open supports:

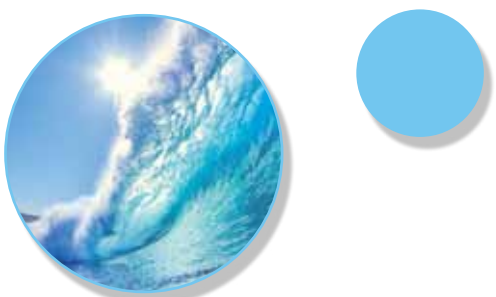
- Increased password security (character combination, period of validity, automatic expiry)
- Multi-stage access authentication using login and personal password, biometric data and smartcard identification
- LDAP Connection (Connection to an LDAP user database)
- Controlling the access rights using a schedule
- Electronically-signed reporting through audit trail of historical data such as access, alarms etc.



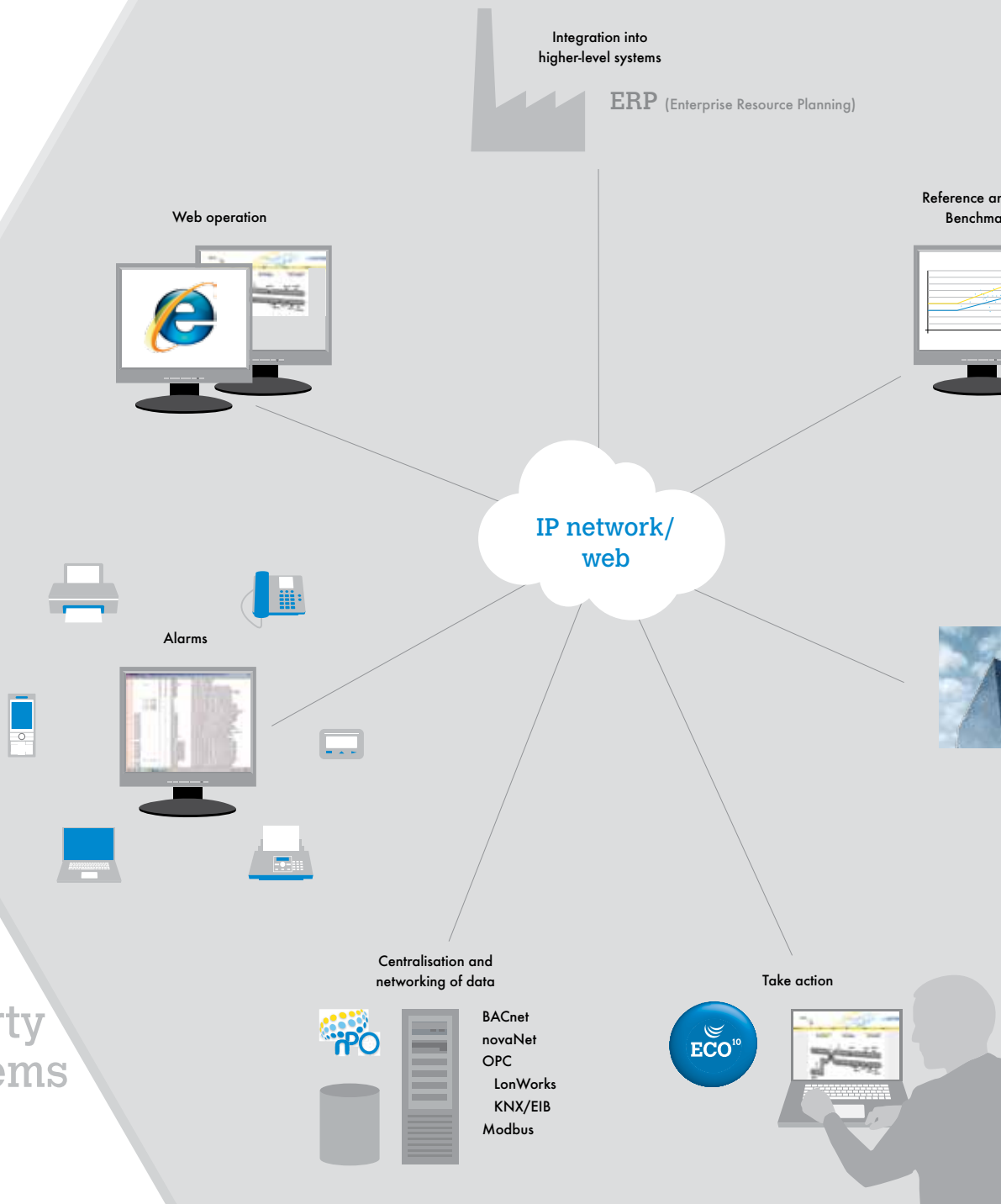
Automatic logging of system events in accordance with FDA guidelines.

### **Open for vertical system integration.**

The support for connectivity using OPC, ODBC, SQL and XML and the integrated Soft PLC function, allows data and values from novaPro Open to be made available for company resource planning also at the ERP level.



Third-party  
sub-systems



Vertical and horizontal **system integration**  
with no limits – for an individual system.

Service portal



"A sophisticated network topology is vitally dependent on an open management system: SAUTER novaPro Open."

#### Evaluation

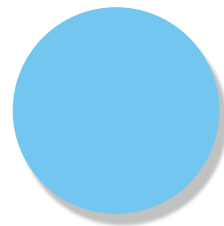
Limit values for office buildings:



Room  
management



Being high-tech SCADA software, SAUTER novaPro Open also has 'open connectivity' with all the common communication protocols. SAUTER novaPro Open 2013 was Europe's first building management system software to be awarded BACnet Advanced Operator Workstation (B-AWS) certification in accordance with BACnet Test Plan version 9.



This certification proves that novaPro Open is suitable for configuring BACnet devices (servers) and for accessing all the properties of a BACnet object. SAUTER novaPro Open has passed the tests in which all the functions must fulfil the BACnet B-AWS profile. Proof of standards and guaranteed functionality provide reliability during planning and operation.

SAUTER has many years of proven expertise in BACnet, with staff who make major contributions on the technical committees. novaPro Open is developed with SAUTER BACnet specialists.



# SAUTER novaPro Open forms an **important basis** for implementing our ten-point programme to reduce your energy consumption.

The software supports SAUTER ECO<sup>10</sup> in these main areas:

**novaPro Open** ► 1. We continuously centralise and visualise the energy-related information using the latest technology.  
*Thanks to the very latest web technology (HTML5, Java and many others), protocols, trends and long-term statistics are available for continuous monitoring, at any time and anywhere.*

**novaPro Open** ► 2. We make a critical comparison of your consumption with the relevant internal and external benchmarks.  
*Your building's energy certificate is available to you online and is updated every day.*

3. We draw up a tailor-made energy plan, looking at the total costs over the building's life-cycle.  
4. We demonstrate ways of using renewable energy sources, taking ecological and economic aspects into account.

**novaPro Open** ► 5. We drastically minimise emissions and, therefore, ensure that you make a lasting contribution to protecting our environment.  
*Emission records, with the latest emission data on CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub> etc., clearly show the current situation regarding your environment policy.*

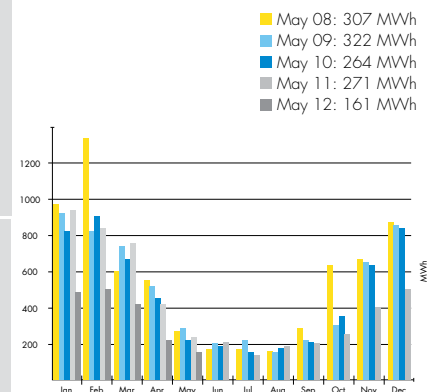
**novaPro Open** ► 6. We focus on our forward-looking, certified products and solutions.

**novaPro Open** ► 7. We link up all the various specialist sub-systems and rely on the capabilities of our open, interoperable, flexible room and building automation systems. By applying global standards such as BACnet, OPC, LON and so on, we ensure that every item of information is available at the right location. This is what makes it at all possible to run your installation with the utmost energy efficiency.

**novaPro Open** ► 8. We ensure that the technologies used in the building's shell, the building automation system and the system technology work together in harmony.  
*By incorporating online weather forecast data via web services, thermo-active building components can be managed more efficiently using the meteorological predictions.*

**novaPro Open** ► 9. We help to make your users become more energy-conscious.  
*Continuous visualisation of all energy-related data down to individual room level shows each user how he is personally influencing the energy balance.*

10. We ensure that your operating costs are reduced.



We make your working and operating processes more **cost-effective**, and provide the maximum quality of life for all the users of the building

**Operators feel right at home – with SAUTER novaPro Open.**

It's easy, reliable and economical SAUTER novaPro Open turns the management of your building into a variable that contributes optimally to overall cost-efficient operation. There are many reasons for this:


**Cost-effectiveness due to:**

- reduced operating costs
- a high level of security, with features such as password and access controls
- improved staff costs
- quick response times thanks to remote alarm notification
- optimised energy costs based on continuous recording of consumption data
- intuitive operation
- clear information
- compatibility with present and future technology
- availability of data regardless of location
- simple operational analysis



**Users feel comfortable with their operators.**

Trouble-free operation of your plant, low ancillary costs for tenants and maximum living or working comfort will strengthen the bond between the users and your building. This means stable building occupancy and a constantly comfortable climate for everyone, leading to increased working efficiency. The active contribution made by the high degree of energy efficiency – provided by SAUTER novaPro Open – towards the protection of the environment and the climate creates a feeling of trust and demonstrates your sense of social responsibility, so your image as a building operator or owner improves, and your commitment is an example to others.



For the client, partnership with SAUTER means a **partnership** in consulting, project planning and service – with the experts.

**Special maintenance tools and web technology make maintenance and service more efficient.**

SAUTER novaPro Open guarantees easy and cost-efficient maintenance. Standardised processes and wide-ranging maintenance tools ensure that planned and spontaneous maintenance activities are carried out efficiently. The basis is provided by predictive data analyses and test processes that are integrated into the overall system. Of course, the software's web technology provides flexible analysis and diagnosis of faults and their immediate rectification – even remotely, if necessary. Alarms, in the form of voice and text messages, are immediately forwarded via any media, e.g. PC, tablet, pager, fax, landline and mobile phone.

**Professional consulting and execution: we provide full support throughout your building's life-cycle.**

As specialists, we are able to take the time to attend to your highly-specific building management requirements. On the one hand, the features and capabilities of SAUTER novaPro Open are the result of many years of experience and extensive knowledge. On the other hand, they are the gateway to greater efficiency and the basis for the perfect and customised execution of a specific project – your project. Whatever you have planned for your building, you'll be well prepared with SAUTER novaPro Open.

**We make all the necessary preparations for using SAUTER novaPro Open as early as the planning phase.**

We use SAUTER CASE Suite to plan for you on the basis of specialist know-how gathered over many years. You benefit by the fact that all partial and total solutions draw on empirical values, thereby consolidating SAUTER's customary brand quality. The result is a combination of individuality and maximum reliability, creating a solution that is convincingly cost-efficient.



Systems

Components

Services

Facility Management

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