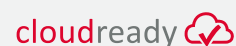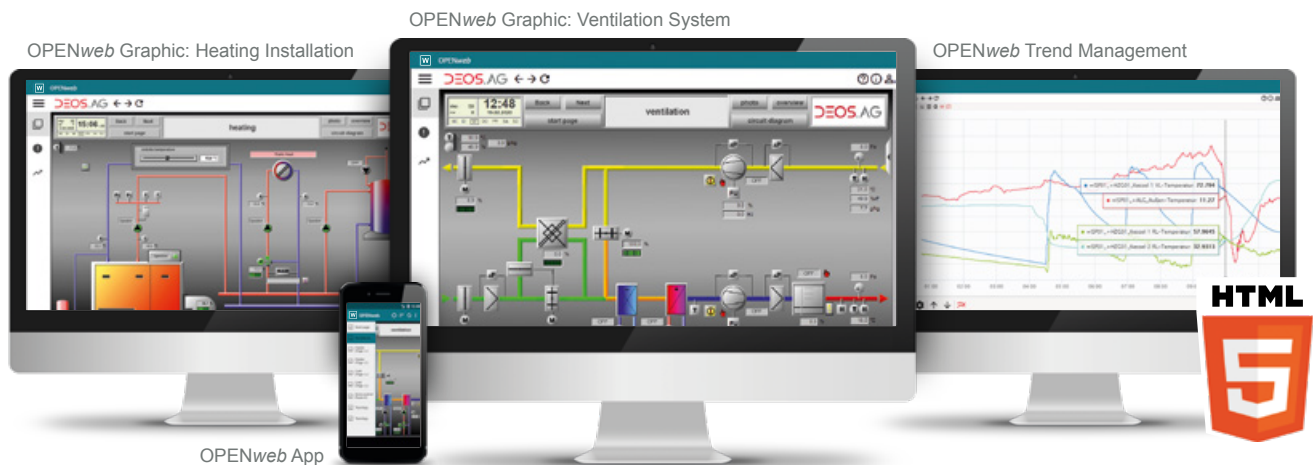# BACnet BMS OPEN*web*

Energy-efficient control of HVAC systems

# BACnet building management system OPENweb

## Energy-efficient monitoring and control of your buildings

The web-based and B-AWS certified BACnet building management system (BMS) OPENweb is specially developed for the monitoring and control of HVAC systems as well as zone and room control in buildings – from your local computer or any location via mobile end devices. A desktop client, an app and clientless operation via a browser (HTML5) are available for this purpose. The graphical visualisation allows you to keep a constant eye on your building, while our intelligent control strategy also ensures operation at the optimum energy level. System faults and alarms are visualised directly via the internal Event Control Center (ECC) and can be sent to your service staff via the DEOS *Secure AlarmApp*. Thus allowing you to act quickly and efficiently.

From secure remote maintenance and simple system integration to economical site networking of your properties – OPENweb is the right BMS for your individual projects and requirements. Decide for yourself whether to use OPENweb locally on your own computer or as a modern cloud solution.

OPENweb Graphic: Ventilation System

OPENweb Graphic: Heating Installation

OPENweb Trend Management

OPENweb App

✓ **Secure cloud**
From just 100 data points in the cloud subscription, OPENweb is available as software as a service – building automation has never been so easy and secure.

✓ **Uniform system graphics**
Programming with the DEOS libraries using the ready-made system graphics ensures a uniform look and feel.

✓ **Innovative message management**
The innovative alarm and message management features and the *Secure AlarmApp* allow a fast and flexible response to system faults.

✓ **Easy integration**
OPENweb impresses due to the wide variety of standardised protocols and interfaces for the easy integration of external systems.

✓ **Scalable to your needs**
OPENweb covers the entire spectrum from micro projects to large, complex systems.
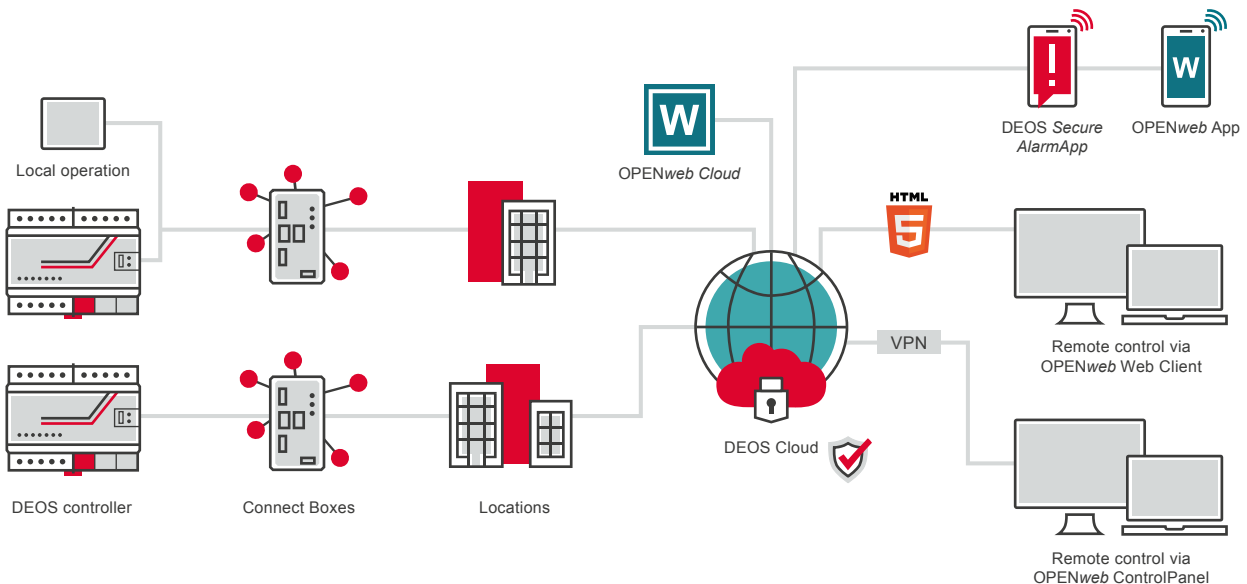
✓ **Flexible operation**
Operate your systems with the OPENweb Desktop Client, Web Client (HTML5) or the Android app for smartphones and tablets.

# Building management system in the cloud

## Worry-free service package with OPEN*web Cloud*

With OPEN*web Cloud* you avoid expensive hardware for your local BMS server, troublesome installation and update procedures and additional personnel costs for the maintenance of your BMS software. You get the flexibility: location expansions and their networking are quick and easy to implement thanks to the central cloud solution. It does not matter how small or large your HVAC system is: planning starts from just 100 data points on a data point basis. This means that even small systems can benefit from the advantages of a fully-fledged BMS such as OPEN*web*. OPEN*web Cloud* – this is how we create the future!

Local operation

DEOS controller | Connect Boxes | Locations

OPEN*web Cloud*

DEOS Cloud

DEOS *Secure AlarmApp* | OPEN*web* App

HTML 5

VPN

Remote control via OPEN*web* Web Client

Remote control via OPEN*web* ControlPanel

## Security is the top priority

The IT security of our cloud solution is our top priority. Therefore, in times of cyber-crime, we rely on our connect boxes with the highest IT security standards. The boxes are delivered pre-configured and thus provide your systems with optimal protection against cyber-attacks.

## Software as a service

Not only do you get the benefit of a user-friendly BMS, we also provide you with software as a service. We deliver your BMS on the DEOS high-performance servers or in your own cloud, keep OPEN*web* constantly up to date and our IT experts are available to support and advise you at all times.
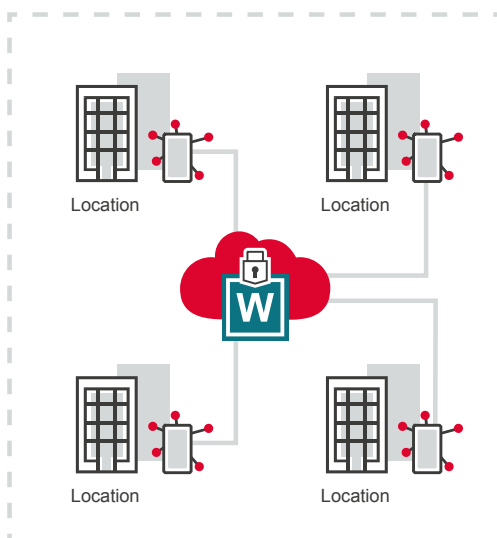
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# Networking according to the highest standards

## Central management and location-independent control

### OPENweb Cloud

Network your locations with OPENweb Cloud and manage them in a central location!
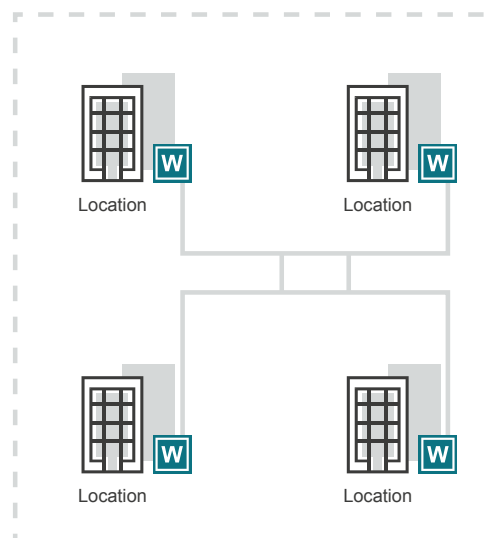
- Low investment costs – because OPENweb only has to be set up in the cloud once
- Installation is possible either on high-performance servers in the DEOS cloud or in your own cloud
- Highest security standards such as 2-factor authentication, SSL encryption etc.
- No additional IT know-how required: DEOS IT experts take over the service
- Customer loyalty and satisfaction by means of modern, uncomplicated maintenance and service offers

### OPENweb locally

The classic concept enables networking via local installations of OPENweb.
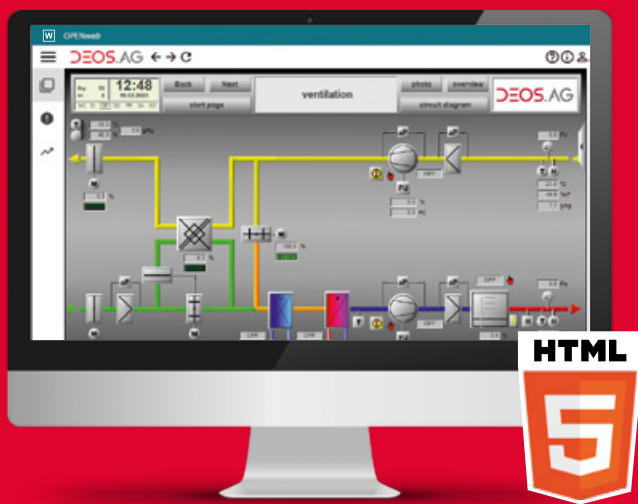
- Local server with an OPENweb installation at each location that is to be networked
- Dial-in access to individual locations via VPN tunnel
- All recorded data is stored locally on the respective server of the end customer / system partner
- For strict IT regulations: Autonomous network with no dependence on the Internet or service providers
- IT specialists are required to set up and maintain the network and servers

# Intuitive operating concept
## Graphic operation on all end devices

**The graphical operating concept of our BMS is above all one thing – simple! Whether using a PC, smartphone or tablet – you can operate OPEN*web* as flexibly as you wish. The uniform graphical display of the system makes operation a breeze and even more intuitive. This allows employees without any previous knowledge to monitor and control the room and system parameters.**
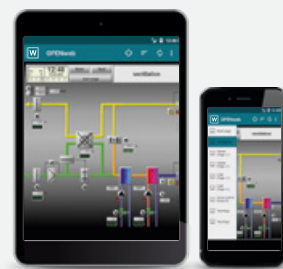
### Web Client

With the OPEN*web* Web Client, you can access your systems regardless of the platform via HTML5 and a web browser. Save yourself the installation of additional software on authorised-access computers and stay as flexible as possible. Thanks to the intuitive user interface design and simple operation, the Web Client is the ideal tool for operating your systems.

### Desktop Client

With the OPEN*web* ControlPanel, your building management system can be operated completely and graphically from your PC. You can easily access all parameters of your heating, ventilation, air conditioning and lighting technology. Configuration options are also available in the ControlPanel, e.g. user, rights and workspace management, event server setup and trend data logging.

### Mobile app

You can also control and monitor your HVAC systems on the go. Our OPEN*web* App gives you permanent access to the most important system parameters. No matter whether you are in your own building or on the road. The apps are optimised for Android smartphones and tablets.

# Innovative message management
## Customisable according to your needs

The innovative message management makes OPEN*web* so special: System messages such as alarms or faults are clearly displayed in the Event Control Center (ECC) and ready for processing. Quick filters allow you to find the messages more quickly and sort them according to categories and priorities. Automatic forwarding of system messages makes your work even easier and more efficient. The Event server is the central tool for setting up forwarding via a variety of services. Stay flexible – we notify you via SMS, e-mail or *AlarmApp* on your smartphone. In this way, you can react immediately to messages to ensure
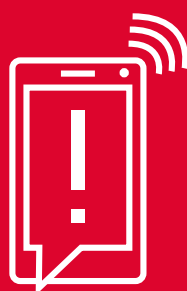
that the system operates at the optimum energy level at all times. In addition, the DEOS *Secure AlarmApp* allows you to better coordinate your service assignments with functions such as fault notification, technician chat and service history.

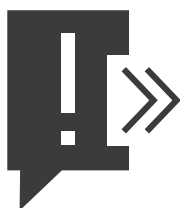**These modules make DEOS message management so innovative. HVAC service has never been so easy!**

## Event Control Center

The Event Control Center is the central module for displaying, processing and historicising system messages in the form of alarms or events. Both BACnet and proprietary messages can be called up in the detailed view. This allows you to find all relevant information at a glance in order to process the messages as quickly as possible. Message management in the ECC can be adapted to your individual requirements: for example, alarm messages can be automatically assigned to the relevant facility manager, message views and level of detail can be set for user groups, and events can be linked using And / Or modules. **So you benefit from fast response times and reduced effort in system operation.**

# DEOS *Secure AlarmApp*

The DEOS *Secure AlarmApp* simplifies the daily routine of your service employees and reduces your service costs through improved service coordination and alarm notifications on your mobile phone. Improved coordination and exchange of experience between technicians are supported through functions, such as technician chat and online map services. Additional practical requirements make this app so valuable: flexible alarm scenarios, such as alarming according to detectors or escalation of messages, can be easily implemented. Simple administration of users, locations and the reporting system, also makes service work much easier.

E-mail

# Event server

The event server is available as an expansion module of OPEN*web* and handles the forwarding of system messages to selected participants and end devices. Protocols such as ESPA-X, SMS, DEOS Push (*AlarmApp*) and e-mail are supported. The persons / groups of persons defined by you are informed about the desired protocols by means of detailed reports on pending alarms or events. Thus, for example, facility managers are informed of the system status 24 / 7 and they can prioritise messages and plan further action remotely.
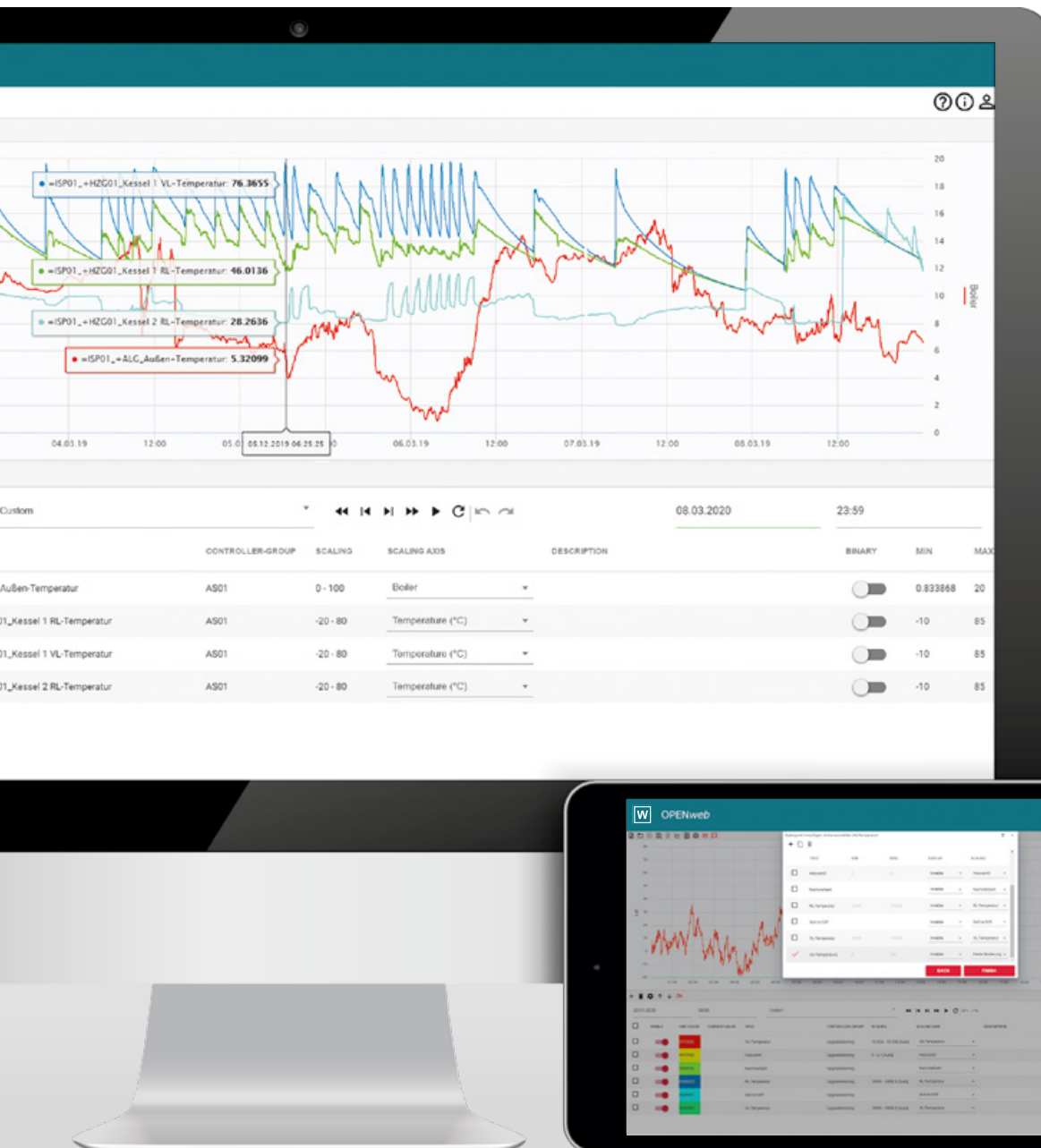
SMS

# Trend management
## Visualise your system data

Record your system data with the trend management feature in OPEN*web* and visualise this in clear and interactive graphics. This allows you to keep an eye on your system at all times and act quickly in the event of irregularities. Live trending is particularly useful here. For example, if you change parameters during commissioning, the direct reaction of other parameters can be identified and hence the operation of the system can be optimised. There are no limits: Define the data points as well as the polling intervals according to your needs. You can also simplify your daily work by compiling frequently used trend data in formulas that you can load easily with a click.

✓ **Optimise the system settings during operation with live trending**

✓ **Various tools such as axis parameterisation, CSV export and report printing**

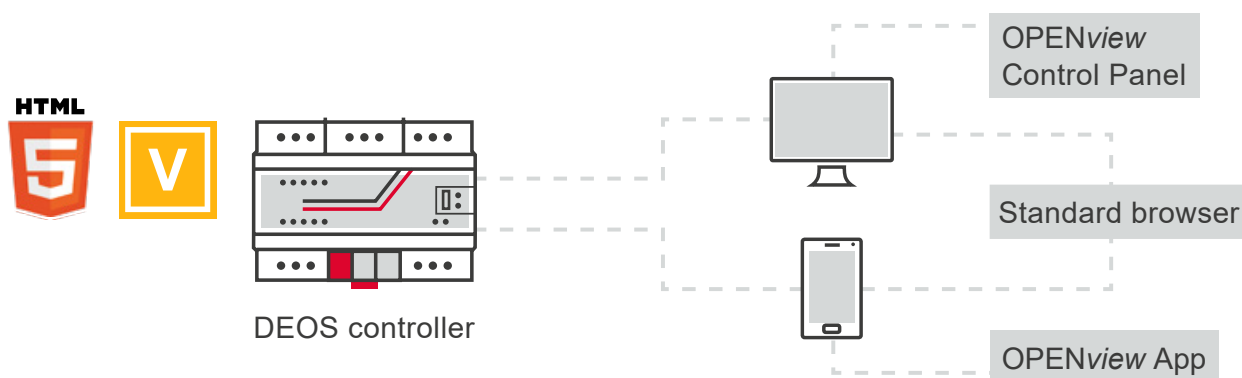✓ **Available in the OPEN*web* ControlPanel and the OPEN*web* Web Client**

# Mobile monitoring with OPEN*view*

## Mini-BMS for micro-projects

OPEN*view* is the integrated, high-performance HTML5 web server. It is available on all controllers in the OPEN EMS family. Access OPEN*view* independently of the platform (e.g. Android, iOS or Windows) via the Internet or intranet and keep an eye on the control tasks of individual DEOS controllers. This allows you to operate your building at the optimum energy level at all times. In addition to operation, the OPEN*view* ControlPanel also enables

the optimal configuration of the controller. Thanks to the basic BMS functions, OPEN*view* is ideal for small projects (e.g. schools, kindergartens, branches or stores). If the requirements increase during the course of the project, you can use our BMS OPEN*web* Cloud economically from 100 data points. So you can enjoy all the features of a comprehensive BMS.



DEOS controller

OPEN*view*
Control Panel

Standard browser

OPEN*view* App

## OPEN*view*, OPEN*web* or OPEN*web Cloud*?

We will be happy to advise you so that you too can find the right monitoring system for your individual project. Feel free to contact us! Together we will work out a solution for you:

✉ **partner@deos-ag.com**

# Make the right choice
## The DEOS product portfolio in comparison

### OPENview

*Simple and inexpensive starter package for micro-projects with reduced range of functions.*

- ✓ From 1 data point
- ✓ OPENview on DEOS controllers

**Range of functions**

- ✓ Basic functions for trend management
- ✓ Overview of the actual Event history

**Service**

- ✓ Optional: Provision of updates and upgrades
- ✓ Manual data backup

**Costs**

- ✓ One-time costs for controller and activation of the graphic interface, if required

### OPENweb Cloud

*The comprehensive worry-free package for modern building automation projects in the cloud with high demands on service, flexibility and security.*

- ✓ From 100 data points
- ✓ OPENweb as a service in the cloud (DEOS Cloud or your own cloud)

**Range of functions**

- ✓ Full trend management
- ✓ Full message management included free of charge
- ✓ Connection to the DEOS pro.Building Suite included free of charge

**Service**

- ✓ Including execution of updates and upgrades
- ✓ Daily automatic Data backup
- ✓ Regular maintenance by DEOS IT experts
- ✓ 99.7 % availability of the of the server is guaranteed

**Costs**

- ✓ Predictable monthly costs

### OPENweb

*The classic BMS for building automation projects as local solutions.*

- ✓ From 250 data points
- ✓ OPENweb on local server PC

**Range of functions**

- ✓ Full trend management
- ✓ Basic message management functions (extensions available on a modular basis)
- ✓ Optional: Trend & Event APIs for the connection to third party systems

**Service**

- ✓ Optional: Provision of updates and upgrades
- ✓ Manual data backup
- ✓ Manual server maintenance
- ✓ Server availability is the customer's responsibility

**Costs**

- ✓ Investment in server hardware and ongoing operating costs

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