



System topology

DEOS product overview



DEOS AG: Building automation that inspires

Who we are

As an internationally operating medium-sized company and part of the Swedish Regin Group, with more than fifty-five years of experience in the field, we are developing and producing intelligent products, solutions, and services for the automation and digitalisation of buildings and facilities. We are passionate about developing heating, ventilation and climate control systems as well as cutting-edge IoT and cloud-based solutions for efficient and future-oriented overall systems. System integration into building services technology that is easily realised plays a major role at DEOS AG.

Every day, our associates work with system partners, specialist planners, operators and end customers all over the world. We do this to ensure the energy-efficient and sustainable operation of buildings, to help make our partners even more successful and turn them into fans of our automation and integration solutions. For buildings that inspire.

We create solutions

Whether you are the owner, investor, planner or operator of a property or a property portfolio: with our products you create intelligent and safe buildings that inspire. Customised building solutions from DEOS AG can be used effectively in any building to meet individual building requirements.



OFFICE



RETAIL



HOTEL



INDUSTRY



AIRPORTS &
TRAFFIC SYSTEM



HEALTH
CARE



SPORTS &
ENTERTAINMENT



CULTURAL
INSTITUTION



GOVERNMENTAL
INSTITUTION



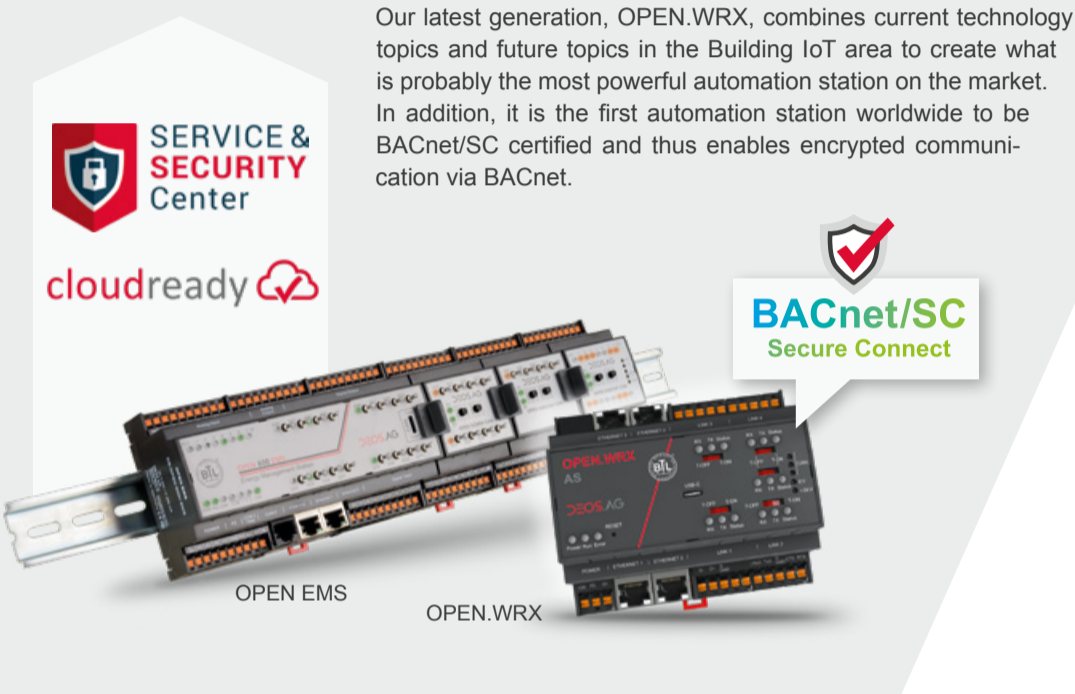
EDUCATIONAL
INSTITUTION

Hardware made in Germany

Innovative, powerful, high-quality

With the DEOS hardware product portfolio, we offer you a wide variety of high-quality products from our own production. The OPEN EMS (DDC controllers) represent the central intelligence in the building as IoT and cloud-ready controllers. They are used for holistic building automation and are specialised in HVAC applications: the control, regulation and monitoring of building services equipment for the energetic optimum. Designed as native BACnet Building Controllers (B-BC) with or without manual operation, they are used in a wide variety of building types. The powerful integrated HTML5 web server OPENview is available on the OPEN EMS DDC controllers. You can access it decentrally via the internet or intranet. OPENview enables the graphic visualisation and operation of your system, also via remote access.

To ensure IT security in the building, the DDC controllers are equipped with an innovative firewall that meets the highest security standards. This protects the system from internal and external cyber attacks. Use our ready-made macros and templates to reduce your programming efforts by up to 90% or rely on free programming for your individual requirements. The DEOS controllers can be supplemented with IO modules via the CAN bus interface (up to 5 km away from the controller) to optimally respond to your individual project size.



B-AWS certified BACnet BMS

Efficient monitoring and control of your systems

The B-AWS certified BACnet BMS OPENweb is a modern building management system in times of IoT and cloud. With it, you can easily control your systems from anywhere in the world. Thanks to the graphic visualisation, you can always keep an eye on your building and ensure that it is operating at optimum energy efficiency. System faults are communicated directly via the internal Event Control Centre and can be sent to your service staff via the DEOS *Secure AlarmApp*. This allows you to act quickly and efficiently. Thanks to the scalability of OPENweb, the software is suitable for almost any project. From the smallest application to large and complex projects with redundancy requirements. OPENweb is an in-house development that is always being further developed with our system partners – this development close to the market makes our software so special. OPENweb stands for flexibility. It integrates systems from different manufacturers and guarantees communication between different bus systems and products with standardised protocols and interfaces.

Decide for yourself whether OPENweb should be used locally on your computer or as a modern cloud solution. Even small building automation projects with 100 data points or more can benefit from a fully comprehensive BMS thanks to the cloud solution. The DEOS IT experts are available to advise you at any time. From secure remote maintenance to site networking of your properties – OPENweb is the right BMS for your individual projects.



Building IoT

Modern solution for the digitalisation of buildings and systems



DEOS *Secure Network* – IT solutions for building automation

In addition to the many advantages of BMS in the cloud, our cloud solution DEOS *Secure Network* focuses primarily on security. Thanks to the high security standards such as firewall functions and encrypted communication, your system is optimally protected against cyber attacks. As the Connect Box is already pre-configured, you do not need any additional IT know-how for the facilities. Building automation has never been so secure!



Wireless networking – Smart retrofit projects with LoRaWAN

Integration solutions based on the LoRaWAN wireless standard are becoming more and more common in retrofit and new building projects in the field of building automation. The wireless connection of sensors, meters or operating devices via LoRaWAN offers several advantages over other wireless technologies. The combination of modern DEOS IoT/cloud solutions and LoRaWAN flexibility enables new and efficient usage scenarios: The aim is to relieve technical facility management, reduce operating costs, process building data transparently and inspire building owners with new comfort functions.



DEOS pro.Building Suite – Software as a Service

The pro.Building Suite is an IoT platform for the transparent connection, display and processing of data from technical building systems. The data is displayed via a digital image of each building system in a semantic data model – the digital twin. With the help of the pro.Building Suite modules, individual visualisations and data inspections can be realised. Via standardised interfaces (REST API, CSV export), the pro.Building Suite offers direct interaction between building services engineering and third-party systems such as accounting software, EMS, CAFM and many more. Thanks to its modular structure, the platform can be expanded at any time to meet your requirements.



Modules of the pro.Building Suite
from the front: pro.Dashboards, pro.Cockpits, pro.TEO, pro.Tenant Management und pro.Reports

Energy monitoring with the IoT platform

The primary goal is to reduce the energy consumption of building services equipment, buildings or entire properties to a minimum. With our energy monitoring, we offer a tried-and-tested solution that is manufacturer-neutral and can be used for existing buildings and their already installed TGA systems (retrofit) or in new buildings:

- Data connection of the energy generators and meters
- Storage and processing of energy data
- Web-based visualisation & operation
- Automatic energy reports
- API-based data transfer

At the heart of our solution is our IoT platform pro.Building Suite, where all data is brought together, stored and processed. The platform can be accessed from any end device using a standard web browser. The collected energy data is visualised on individually configurable energy dashboards. In this way, the collected data can be easily and conveniently compared with target data or benchmarks and possible efficiency measures can be derived. Energy reports can be automatically generated in the background and, if desired, regularly displayed, sent or printed. This provides the building operator with a transparent and simple overview of the energy status of the building and can compare it with the corporate goals.

You can also use our special interface for tenant management and tenant changes. Here you can manage the entire meter landscape of a property and assign it to the corresponding tenants. Create monthly consumption statements via the pro.Building Suite that are EPBD-compliant.

Benefit from additional synergy effects: In combination with our BACnet BMS OPENweb, we enable you to optimise your system operation in terms of energy.

Operation for smart radiator thermostat DEOS TEO

Over 65% of the energy consumption in a building is caused by heating the rooms.



Therefore, intelligent, motor-driven radiator actuators are indispensable.

With the help of the pro.TEO module of our IoT platform, the current room temperature and the operating mode of the thermostat can be read and changed. With customisable time programmes such as the working time and holiday calendar or the temperature reduction overnight, the temperature for predefined rooms, floors or entire buildings is controlled centrally and automatically.

The best thing about it: the annoying opening and closing of radiator valves is a thing of the past, you enjoy an optimal feel-good climate and at the same time reduce your energy costs by up to 40 percent.

Classic building automation

DEOS *Secure Network*

pro.Building Suite

Building IoT

Remote maintenance / site networking

manufacturer-independent

Building management

Building and room automation

System integration

MEMBER OF **BACnet**  

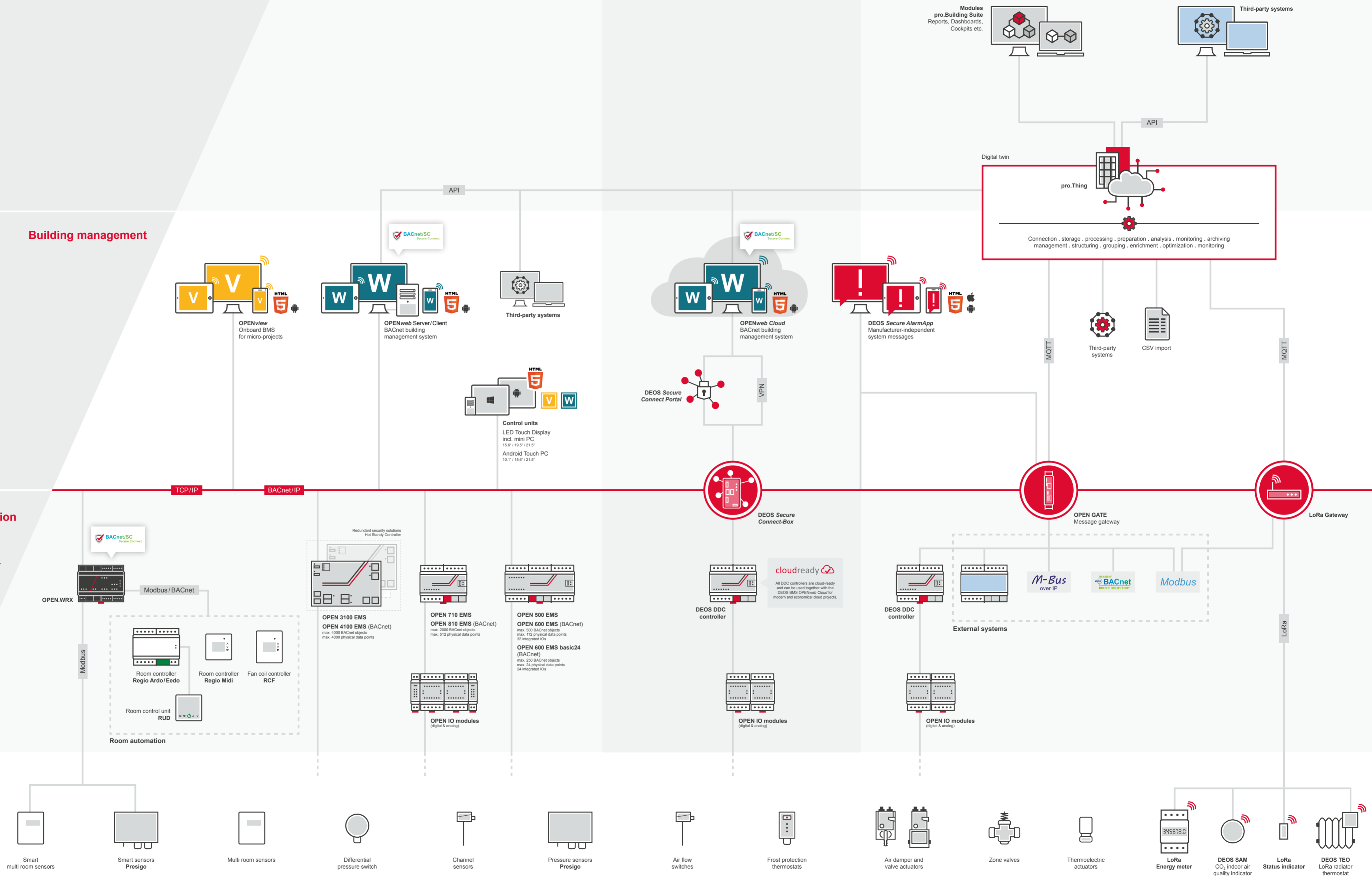
Modbus / M-Bu

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Field devices


industrietechnik



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DEOS AG . Birkenallee 76 . 48432 Rheine . Germany
Tel.: +49 5971 91133-0 . Fax: +49 5971 91133-2999
www.deos-ag.com . info@deos-ag.com