



Easily scalable, secure IoT infrastructure „BSC-Connect“

Allendorf, 6.9.2022

With its scalable IoT infrastructure BSC-Connect, BSC Computer GmbH addresses the top themes of this year's light&building 2022: sustainability and digitalisation. The newly presented IoT system solution networks EnOcean sensors and actuators with each other and with the cloud and meets the highest security requirements. With BSC-Connect system controllers, decentralised edge gateways and pre-configured IoT bridges, a wide variety of network topologies can be implemented for EnOcean wireless coverage of individual homes through to complex industrial plants. Digitalisation is the core function of the system, sustainability comes from optimising the use of resources, especially in the application - reducing energy consumption, optimising processes and secure bidirectional data transmission with the use of existing IT infrastructures in buildings.

Currently, energy saving in buildings is at the top of the list of priorities for building operators. In addition to individual room control, however, the digitalisation of systems, installations and processes offers many other sustainability aspects from ecological, social and economic points of view. EnOcean's battery-free wireless technology has established itself as a resource-saving technology for sensors and actuators, but how can the data be easily and securely integrated into IoT solutions? With BSC-Connect, BSC Computer GmbH is presenting its easily scalable, highly secure bidirectional IoT infrastructure solution for EnOcean wireless networks at this year's light&building on the EnOcean Alliance booth (Hall 9.0 D10).

The BSC system controllers, gateways and bridges are optimised for the EnOcean radio standard, achieve ranges of up to 30m in the building through external antennas, communicate bi-directionally and support the latest EnOcean Equipment Profiles (EEP) and encryption technologies standardised by the EnOcean Alliance. The system controllers can be used as central IoT controllers with or without a local database, or they can be networked via IP to form comprehensive IoT wireless networks. IT networks already installed in the building, such as access points from Aruba, can also be used to minimise investments and thus make a further contribution to sustainability.

The FW BSC-Connect installed on the edge gateways is protected from unauthorised external and internal access and contains both the operating system for setting up EnOcean IoT wireless networks and communication with IoT cloud solutions, as well as functions for simple commissioning, comprehensive automation and control functions, and secure and user-friendly operating options. For the realisation of purely cloud-based EnOcean IoT system solutions with EnOcean IoT Bridges, BSC-Connect is also available as an enterprise version.

About BSC Computer GmbH

Since 2004, BSC Computer GmbH, based in Allendorf, has been digitising products and processes of its customers and partners based on the EnOcean wireless standard. Easily scalable and encrypted IoT edge gateways, bridges and system controllers enable the creation of EnOcean wireless networks in smart homes to large industrial plants. With mechatronic integration of energy converters and wireless boards in sensors and actuators through to cloud integration and integration of data in customer-specific management systems, an all-round worry-free package based on standard components is offered. In the partner network with the EnOcean Alliance, Aruba, universities, manufacturing partners and, last but not least, the solution provider itself, innovative, secure digitalisation solutions for smart buildings and smart cities are created quickly and in a resource-optimised manner, making a significant contribution to the implementation of many Sustainability Development Goals. BSC Computer is a founding member and promoter of the EnOcean Alliance.

Press Picture



Press picture „BSC PR Foto light und building 220906.jpg“: The easily scalable IoT system components "BSC-Connect" lead to more sustainability in many dimensions.

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