



Reference projects with integrated BACnet - KNX Solutions

1. The “Neues Kranzler Eck“ in Berlin

The „Neues Kranzler Eck“ in Berlin with 45,000 m² of office space provides room for between 1,800 and 2,000 work places. The room automation of this building has been realized with KNX, which is linked to the management level via BACnet gateways. In this way comfort could be increased, energy consumption reduced and building management optimized.

The following benefits of KNX are put into practice in the “Kranzler Eck”:

- Integrated room automation for lighting control, shading, air-conditioning, ventilation and heating
- Flexible room planning and use by the tenants
- Integrated Facility Management by the incorporation of the KNX room automation into the central building management

BACnet was used as the standard for the central building management. The individual ventilation and air-conditioning systems are operated with DDCs based on the BACnet protocol. In this way, all functions of the individual office rooms can be visualized.

For the Facility Managers at DIFA this constitutes a powerful tool, which can moreover be operated locally from all workplaces.

2. Production plant Stihl AG in Waiblingen, Germany

Stihl AG is one of the world's best-known manufacturers of tools, mainly of outstanding motor saws. More than 80% of all products are exported. The headquarters at Waiblingen near Stuttgart, with buildings on two separate sites, is the hub of the company's worldwide activities. There was a clear need to install a professional facility management for the office and production buildings. The objective was to bring both factories under a common management system and at the same time establish common control for both the existing systems and new systems alike. It was decided to use the open standards KNX and BACnet for setting up this new technical infrastructure.

In recent years, the building management system on field level has been thoroughly modernized with KNX. All systems, including HVAC control, are now interlinked via BACnet.

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presents KNX -
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EN500900

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selon la norme EN500900

KNX in motion

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3. University hospital Saint Olav's in Trondheim, Norway.

The St-Olav's hospital is well on its way to become one of the most innovative university hospitals in Europe. From the very beginning the university hospital was designed to fulfill the patients' need. The total hospital floor space will eventually cover 210.000 square meters.

The buildings, surroundings, equipment, treatment and nursing will be centered around the patient's well being. The same applies to medical research and teaching. The building is designed in close co-operation with the operators of the St. Olav's Hospital.

The new university hospital will offer health-promoting surroundings for patients, their relatives, staff and students. Building materials for instance have been chosen with great care to ensure a healthy climate in rooms. Strict requirements are also applied for air quality, heating, noise reduction and lighting.

In the light of these high requirements, also the integrated KNX-BACnet solution was conceived. Approximately 10000 KNX certified controllers control the building's climate. With the help of KNX-BACnet gateways and the BACnet Management and control system, the building management will be ensured.

4. Police Headquarters Frankfurt, Germany

The new Frankfurt police headquarters with its surface of 57.000 square meters harbors various functional areas, for instance for management duties, a central control room but also exercise rooms for firing, practicing reaction speeds at hold-ups and a multi-purpose sport hall. The headquarters are moreover equipped with an own car repair workshop and a canteen. The "trademark" of the building is however the helicopter port, which looks from a distance like an UFO hovering above the building.

In the police headquarters, KNX products and systems are used for individual room control of lighting and window blinds. The pros to choose for KNX were: 100% interoperability, KNX certified products and the possibility to connect the KNX network via standard KNX-BACnet gateways. A proper local operation and control could in this way be integrated into the overall building management: these are especially assets for the responsible facility manager.

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