

## Social Networks

### Assignment

Intelligent Buildings in Social Networks. The requirement is to automatically transmit system faults, alarms, video-intercom images and orders for different services via social networks.

### Solution

A suitable gateway is needed in order to connect a KNX system with diverse social networks such as Facebook, Twitter and Prowl. This is where NOMOS Box, the new IBS product, comes into play. The new multi-protocol gateway/server is the first of its kind and supports up to 25 different protocols. It offers bidirectional access from and to KNX. Interoperability of the different protocols is ensured. Apart from the gateway functionality, the NOMOS Box also provides an HTML5 server that can be used to visualise data from different platforms.

### Realisation

The panel shows basic functions of modern building automation systems: a room controller by Jung serves as a central operational control for presence-dependent functions, room temperature, lighting and service requests via social networks. A motion detector by Busch-Jaeger is used for presence detection and a webcam serves to monitor the room. Actuators and an IP router (by Siemens and ABB) are the system components used here. Various Apple products are used to control the devices and to visualise data. They are connected to the HTML5 server via a Wifi network. A 15" display is used to show the application's Facebook account. The NOMOS Box as central device evaluates all KNX events and transmits messages to social networks where appropriate.

### Features

The primary use of this system is to show the possibilities of social networks in combination with smart buildings. For example beverages can be ordered at the supplier with a simple push of a button. Alarms are transmitted together with an up-to-date camera image, if a motion detector triggers an event when the owners are not at home. Also current metering data is transmitted via the social network.

### Advantages

The use of social networks offers many advantages: these services are free of charge and allow users to manage the transmission of data and the access to systems. There are client applications available for nearly all platform that allow users to access social networks. If a residential building has its own Facebook account, a kind

of data diary can be kept: How much energy did my house consume? Who rang at what time the doorbell? What kind of malfunctions occurred during a particular period in time?

Persons who need assistance can make their data available to a group of people they trust. This even allows the integration of several types of services.

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