



Smart Building Server

Creating Value through People®

Software House of Siemens Switzerland AG - the Software Factory

Intelligent buildings open up new possibilities with regard to operating convenience, functionality and mobility for their occupants, users and service providers.

- ☑ **Centralised operation saves having to walk long distances and increases the possibilities of control and intervention.**
- ☑ **De-centralised operation provides more convenience and functionality on the spot.**
- ☑ **Added value through additional functions such as scenarios, time-control, central functions etc.**
- ☑ **Makes universal solutions possible through the integration of different media and systems (EIB, LON, Profibus, SNMP, Multimedia, etc.).**
- ☑ **Opens up a browser-based platform for the realisation of special solutions from the automation, visualisation and technical building management sectors.**

Together with the *Smart Home Server*, the *Smart Building Server* forms ideal building blocks for individual visualisation solutions.

Utilisation scenarios

With the following example scenarios, we would like to take you with us on a journey to a smart future.

• Graphic Touch Panels

Not only serve as a replacement for wall switches, but also offer a platform for a wide range of new possibilities. And this not only in user guidance but also in the realisation of additional functions from the communication, information, multimedia and operational process sectors.

• Browser instead of wall switch

Employees can influence their environment (light, shading, air conditioning, multimedia, etc.) from their workstation computer via a personalised Web site. This also provides additional flexibility in the re-organisation or utilisation of the premises.

• Integrated operation

Whether lighting, shading, air conditioning, multimedia equipment of all kinds, office applications or others, all can be operated via a uniform Look & Feel thanks to an open PC-based visualisation.

• Remote access instead of climbing stairs

Should all the lights be switched off, all the windows be closed and the blinds let down at the end of the working day? The janitor can not only check this remotely, but can also directly influence it. Access takes place using a mobile terminal, such as a PDA or a mobile telephone.

• Energy management

This arises through the interplay of different bus systems such as EIB, LON, Profibus and others. Information from various sources is placed in relation to each other, and thereby allow intelligent system processes and control possibilities. The *Smart Building Server* also offers a range of services and applications.

• Processing of fault messages

Fault messages from the building automation or the IT infrastructure are registered, recorded and distributed to the responsible persons by means of Pop-up windows, E-Mail, SMS or WAP via GSM/GPRS by means of a configurable escalation path. This accelerates the correction process, increases availability and reduces any possible consequential damage.



Technical description

• System architecture

Thanks to a component and adapter-based architecture, various control systems, services, distribution and display technologies can be integrated.

• Operation

HTML, Applets, WAP or Flash are available for the operation. Most graphic interfaces (e.g., building floor plans and cross-sections) are created customer-specifically.

• Security / Personalisation

Access to the elements can be administered via an integrated User Management. In this way, each person receives access to the information and functions that were intended for him/her.

• Scalability

The component and adapter-based technology makes it possible for the *Smart Building Server* to grow alongside the company infrastructure. As a result, an optimal performance and reliability can be achieved at all times.

Technologies

As a result of the use of open standards, there is a wide selection of terminals, means of communication and integration possibilities.

• Terminals

From normal desktop PCs, through Panel PCs, Tablet PCs and Pocket PCs and up to mobile telephones. Always the right solution. Depending on size and the desired mobility

• Communication paths

Fixed networks (LAN, Internet, etc.) and mobile networks (WLAN, GSM, GPRS, etc.) are possible. Combined with security mechanisms and personalisation, you receive „anytime and anywhere“ access and/or can be reached anywhere at any time.

• Integration possibilities

Various adapters for EIB, SNMP, audio/video, RS232, as well as the internal adapter architecture permit integrated solutions using several different technologies. The Web interface can also be simply integrated into existing company portals.

System requirements

• Server

A commercially-available Windows server. The *Smart Building Server* functions as Service.

• Client

Internet browser with Java V1.4 or FlashMX plug-in.

Our range of services

- Consultation services for building owners, architects, electrical planners and electrical contractors.
- Procurement of the EIB equipment, IT infrastructure, operating units, etc.
- Realisation of integrated customer-specific visualisation solutions and additional services on the *Smart Building Server*.

Contact person

Siemens Switzerland AG

Werner Fehlmann
Software House
Viaduktstrasse 40, CH- 4051 Basel
Tel: +41(0)585 567 643
Fax: +41(0)585 567 671
Mail: werner.fehlmann@siemens.com
www.siemens.ch/de/softwarehaus
Doc No. DSBN-SHS-PB-BS-1003