



## Smart Home 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.

With the European Installation Bus (EIB), actuators (light, motors, etc.) and sensors (switches, sensors, etc.) can be interfaced with one another. Together with today's means of telecommunications, such as Internet, WLAN, GSM and their associated terminals, new and interesting scenarios arise for building automation.

The Smart Home Server is a open Web-based open platform for the realisation of such innovative solutions for a wide range of application areas.

- Private properties
- Business and production buildings
- Real estate administrations, hotels, residences, house maintenance, facility management

The Smart Home Server offers many existing functions and customer-specific expansion possibilities.

#### Utilisation scenarios

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

##### • Comfort for the occupants

Conditions can be displayed and control functions can be carried out from the sofa. Via scenarios, intelligent and combined functions result in simple and convenient features.

##### • Security

Status information can be displayed, compressed and forwarded. Around the clock and around the world, this gives the security that there can be an immediate reaction to faults and other incidents.

##### • Remote maintenance

The remote access to the information and operating functions of a property bring interesting possibilities - not only for the occupants, but also for service providers. With the large number of communication media and terminals, it must be guaranteed that only authorised persons can obtain access.

##### • Energy efficiency

The smart house can react to the weather situation, the date and time and other dependencies.

As a result, heating energy, water and electricity can be saved without loss of convenience and comfort.

#### Technologies

As a result of the use of open standards, these scenarios can be realised using a large range of different terminals and means of communication.

##### • 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

All that is required for the operation is a TCP/IP connection via the fixed network, LAN, WLAN, GSM, GPRS, etc.

The distribution of error messages takes place via E-Mail and SMS.



## Technical Description

### • System architecture

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

### • Operation

Operation can take place via HTML, Applets, Flash or SOAP. With the Applets or Flash, the operation mostly takes place using graphic interfaces (e.g. building floor plans and cross-sections). In addition to the standardised operating interface, the latter can also be simply and specifically adapted to any project by means of configuration files.

### • Access security

By means of an integrated User Management, access to every element and every view can be configured. Together with additional security measures, this ensures that only authorised persons can obtain access.

### • Integration

With the available adapter for EIB, SNMP and audio/video, as well as an open architecture, integrated solutions can be realised using several different technologies.

## System requirements

### Server:

• Intel Pentium 500MHz,	✓
128MB RAM, 1GB HD	
• Windows 2000 or NT	✓
• Java runtime environment	✓
• Network connection	✓

## Features

### Clients:

• Web-Browser	✓
(HTML, Applets or Flash)	
• PC terminal	✓
PC, PocketPC, TabletPC	
• Mobile telephone	✓
(WAP)	

### Communication:

• Internet, LAN, WLAN	✓
• GSM, GPRS	✓
• E-Mail, SMS (SMTP, POP3)	✓

### Features:

• Graphical user interfaces (e.g., floor plan)	✓
• Tabular user interfaces (e.g., overviews)	✓
• Language-specific user guidance	✓
• Combined functions (e.g., all lights off)	✓
• Embedded into a site map, incl. navigation	✓
• Error message processing (EIB, SNMP, Logging, Alarming with escalation)	✓
• User management and access protection	✓

### • Processing of fault messages

Fault messages can be received via EIB or SNMP. These will be recorded and can be distributed according to an escalation scenario that can be configured for each possible fault situation (Pop-up window and time-controlled Mail, SMS). The correction of the fault can be followed via the processing status.

## Our range of services

- Conception and coordination with the EIB engineering office (internal/external)
- Procurement of the EIB units, IT infrastructure, operating units, etc.
- Realisation of customer-specific functions and interfaces
- Coordination of the electrical installation
- System integration and commissioning
- Training of users and operators
- Siemens Switzerland as your competent and active solution provider

## Contact person

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