

smart@Home Solution for Consumers

Bosch und Siemens Hausgeräte (B/S/H) is Europe's market leader in white good appliances and always far ahead of competition in implementing the latest technology. In 2003, B/S/H will offer its innovative smart@Home solution to its customers.

The challenge

In early 2001, B/S/H decided to build a new generation of devices which can be controlled and serviced remotely via mobile phone, TV or Internet. B/S/H required that the new product line was based on open standards, be future proof, modular extendable and state-of-the art.

The solution

B/S/H did a market research for the right and most competent partner in the field of software for networking devices. After an intensive evaluation of the market players, B/S/H chose ProSyst because of its outstanding combination of its highly professional technology and the best customer support, including its fast, flexible and reliable Professional Services. Joining forces, ProSyst got heavily involved in the development of the solution smart@Home, including a device network, a residential OSGi Gateway and an adaptive user interface.

The device network

The device network includes the following white good appliances:

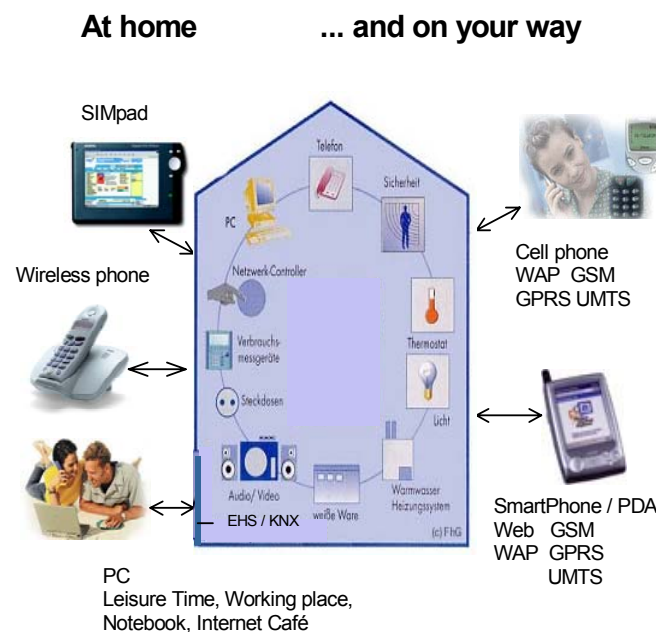
- a refrigerator,
- an oven + hob,
- a washing machine,
- a dish washer,
- a freezer,
- a hood,
- and air conditioning.

Using a plug-in module for the innovative network support and upgrade of white good appliances, the end user has the alternative to either directly purchase the module with the kitchen appliance, or to purchase the module at a later point in time.

Horst Werkmann, Head of Internet@appliances at B/S/H, about the solution:

"With smart@Home ProSyst and B/S/H developed a highly flexible and customizable solution 'out of the box' – containing a large number of ready to use components and others that can be easily extended, modified or replaced."

B/S/H smart@Home Controlling



The ProSyst Residential Gateway Solution

The Residential Gateway is the platform for the OSGi software layer and a central element of the smart@Home solution. It is based on ProSyst's modular and scalable mBedded Server and acts as an intelligent handler of information between the networked devices and the user, enabling remote access to the devices via Webpad, PDA, phone among others.

The following parts are included in the solution:

- certified OSGi Framework (mBedded Server)
- EHS (Network) Layer
- Device Logic Layer
- Presentation Layer

The User Interface / Presentation Layer

The Gateway user interface layer combines all general requirements for a user interface which is dedicated to non-technical end users:

- Option to design the User Interface by professional designers (no knowledge about gateways or the OSGi specifications is required)
- Simple and low-cost adjusting, modifying or extending of the Look&Feel (in order to easily adapt the User Interface to the needs of the customer)
- Support for multiple 'skins' (Look&Feel designs)
- Minimal to none configuration needs for the end user (dependent on his requests)

smart@Home advantages and benefits

The smart@Home solution benefits are at hand:

- Monitoring and controlling of devices
- Multilanguage support
- User profiles for user preference settings
- Application user management and logging
- Support of any ML output format such as HTML, WML, XML
- Support for SMS and email messages

Control devices are numerous: The user can not only use WLAN clients, such as a PDA or a web pad, or Ethernet/ISDN/DSL clients, such as a PC or TV, but also mobile phones (WAP, SMS).

Why ProSyst?

B/S/H chose ProSyst Software, in order to benefit from the following advantages:

- Highly stable standardized solution
- Modular and scalable integration platform
- Broadest variety of ready to use components
- Broadest variety of tested platforms
- Upgradeability of stacks, drivers and services on-the-fly
- Highly scalable and configurable remote management
- Compliance and openness to 3rd party solutions
- Best Support, Fast Professional Services and active Technology Transfer

The ProSyst Professional Services Department provides the necessary training, support and technical expertise B/S/H needed to enhance the OSGi and business knowledge, reduce its development risks, simplify the user experience and accelerate the deployment of its solid products.

Dr. Robert Kugler, Vice President at B/S/H comments:

"ProSyst is our strategic partner for B/S/H's highly innovative smart@Home-Solution, enabling us to focus on our core business by providing its reliable software solutions and excellent Professional Services and Support."

The Conclusion

The smart@Home solution for consumers, available in 2003, offers not only a new life style at a reasonable price, but also the option to purchase the network support when suitable. With the integration of ProSyst's OSGi certified software the smart@Home solution can be enhanced and modified and maintained state of the art.

In addition, the smart@Home Solution is offered to service providers and operators to develop Internet-enabled residential solutions. The solution is a complete end-to-end application, which can be easily customized to the specific requirements of its clients, reducing the development time, risk and costs tremendously.

For more information and to learn more about what ProSyst can do to make your project a success, please contact ProSyst at sales@prosyst.com or Phone +49 221 6604 0.

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