TeleHome

A project of Deutsche Telekom

The intelligent home of the future

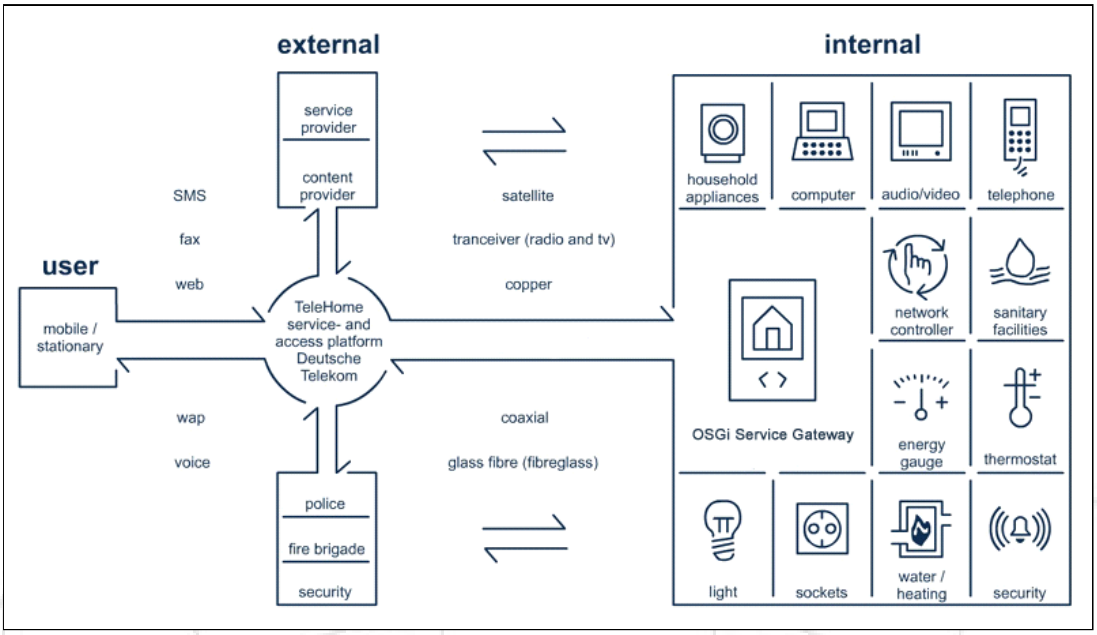
Vision
From household appliances, entertainment electronics, mobile terminals, PABXs and computers to actuators, sensors and technical household equipment: in the future, all devices and systems in the home will be interlinked internally and externally within one overall system that can be adjusted to the desires and needs of its users. That is Deutsche Telekom's vision of TeleHome, the intelligent home of the future.

TeleHome will improve the quality of life of its inhabitants. For example, it will be possible for their homes to be controlled, monitored and configured locally or remotely using various stationary and mobile terminals such as PC, PDA, Webpad, laptop and, in the future, voice, and services will be available in the home as and when required by the user. Intelligent service interlinking and multifaceted, multi-modal user interfaces will provide inhabitants with a personalized range of services customized for specific situations, services that will be available globally and at all times, and which will therefore support the user at home, at work, in leisure time, on the move and when communicating, in order to

- Increase security and convenience
- Relieve the user from day-today household chores
- Use energy in an environmentally-friendly and cost-efficient way
- Optimize time management
- Promote health and fitness

so that the user can feel good and have fun.

Deutsche Telekom will take on the role of a service aggregator in the future.



Technology

Some technical requirements must be satisfied to make this vision a reality. The individual, networked devices in homes require an equivalent in the network (TeleHome Service Aggregations Platform) so that the user can be provided with services securely and in line with the respective technical equipment – broadband alone is not enough.

Processes in the networked home are very dynamic, devices are added or removed, services are subscribed to or dropped and new services are added to the range on offer. In this respect, the services and devices must be compatible with one another and provided regardless of the location of the person authorized to use them.

The interface in the home forms the gateway. This is used for connecting the networked devices, regardless of whether the in-house network uses fixed lines or wireless technology. As a result, the gateway represents an evolutionary development of the access type, which grants access to the heterogeneously networked islands in the home to the global network, like ISDN or DSL does at the moment.

The gateway is part of the Service Aggregation Platform and technically enables network-supported provision of services (e.g. security mechanisms, authentication, additional device functionality, etc.), plug-and-play mechanisms and synergy effects.

The Service Aggregation Platform forms the basis for the intelligent home. It is located in Deutsche Telekom's global network and forms the central entity. The platform is responsible for user logins and authentication, security mechanisms (e.g. secure access to/from the home to the global network, encryption mechanisms, etc.), remote access to the home and use of subscribed services, as well as gateway logins, delivery of software components and gateway administration, among other things. specific basic functions and infrastructure elements (authentication, gateways, etc.) themselves, and instead can use the platform functionalities via open interfaces in

Similarly, third-party service providers are also users of the Service Aggregation Platform, as they do not have to worry about specific basic functions and infrastructure elements (authentication, gateways, etc.) themselves, and instead can use the platform functionalities via open interfaces in order to implement their products and services.

IFA Demonstration

Together with Sony Deutsche Telekom present a demonstrator to show remote access functionality of A/V devices using Web interface and an MDA as user control interface, the TeleHome Service Aggregations Platform, access network, a gateway and A/V inhome devices.

The following services are demonstrated:

- Remote scheduled recording of DVB events

This service provides the user with the possibility of setting up the recording of DVB broadcast events remotely.

- Remote Parental Control

The user can remotely select broadcast services not to be received in the home in his absence, and re-enable their reception.

- Picture Library

This service provides ability to upload new pictures and albums to the home picture library.

For more information, please contact

<thomas.buchholz@t-systems.com>