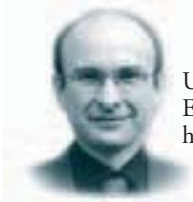


Open network architecture for personalised access

EU project Daidalos



Uwe Herzog
Eurescom
herzog@eurescom.de

A new EU project has started to lift mobile communication to new heights. Under the name Daidalos 46 partners from industry and academia will develop an open network architecture for personalised access to feature-rich services and applications.

The Daidalos vision is to seamlessly integrate the heterogeneous network technologies, and to enable users to access a wide range of personalised communication services whenever and wherever they need them. Users will then, for example, be able to automatically receive personalised flight table updates on their mobile device through intelligent context-awareness.

Eurescom shareholders are strongly involved in Daidalos: Deutsche Telekom as the project co-ordinator, Portugal Telecom and Telenor as work package leaders, and also France Telecom and OTE. Eurescom is involved in project management and dissemination of results. All technical support tools, e.g. email lists, webpage, the audio conference system, a Groupware server, and the online reporting system, are provided by Eurescom. Eurescom has the role of the Exploitation manager.



A multitude of technologies – confusing for the user

Less complexity for the benefit of the user

Daidalos stands for 'Designing Advanced network Interfaces for the Delivery and Administration of Location independent, Optimised personal Services'. In this context, Daidalos will tackle the problem that the increasing number and complexity of access technologies is hardly manageable by average users. The project is developing a solution called Intelligent Interface



Selection. This will enable users to benefit from the comprehensive features of several telecom networks without having to choose between UMTS, WLAN, or broadcast access technologies each time they use a voice, data or multimedia service. The communication device automatically selects the optimal network interface and access technology according to the user preferences, such as cost, speed, or device capabilities.

"Daidalos has the potential to revolutionise mobile communication. The project results will enable European citizens to shape personal mobile services to their individual needs," says professor Rui L. Aguiar from the Telecommunications Institute at the University of Aveiro, a leading expert on heterogeneous networking.

Daidalos roadmap

The interoperable, open network architecture of Daidalos will be based on the mobile version of Internet Protocol IPv6, which is widely accepted as the common basis for Beyond 3G (3rd Generation) mobile technologies. For ensuring that the network architecture will be usable in real-life services, Daidalos will implement a trial and verify the developed components in two user scenarios: the Mobile University scenario and the Automotive Mobility scenario.

In the 2.5 years of its duration, Daidalos will present a number of innovations that will provide users with a new quality of mobile communication. The planned innovations include the integration of heterogeneous networks, a seamless real IPv6 infrastructure which will also allow for broadcasting, and pervasive systems that include intelligent context-aware applications in combination with extended personalisation of mobile services. The project budget of Daidalos amounts to € 25.7 million, € 14.7 million of which is funded by the European Commission.

More information is available at www.ist-daidalos.org