IP Daidalos

The Daidalos Approach towards a "beyond triple play" Infrastructure





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Triple Play Present



- Service bundling of
 - Voice Service
 - Internet connectivity
 - Broadband access for audio and video
- Services for fixed and nomadic users



Triple Play Vision

Future:

How is life?





Triple Play Vision



Future:

How is life?

Mobile!

Quotation of the MobiLife project (World Wireless Initiative)



Triple Play Vision



Future:

How is life?

Mobile!

Quotation of the MobiLife project (World Wireless Initiative)

... and pervasive!

Quotation of the Daidalos project



Daidalos Vision



- Give customers a diverse range of personalized services seamlessly and pervasively supported by the underlying technology
- Establish mobility via an open, scalable and seamless integration of complementary heterogeneous network technologies including broadcast, ad-hoc, moving and sensor networks
- Empower network and service operators to develop **new** business activities and provide profitable services in an integrated mobile world.



Tomorrow's Invisible Networks Challenges

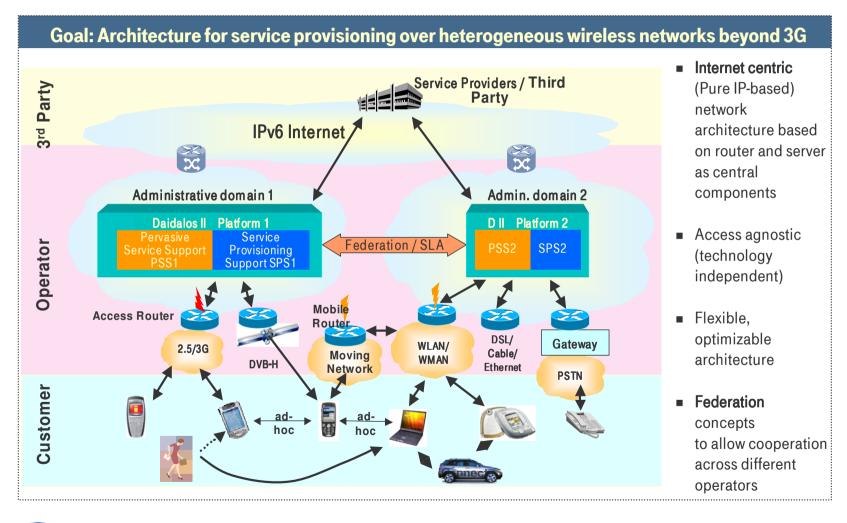


- Customers must reach "their" **network everywhere** → This is a service!
- While on the move: Your network is just there with the quality you need → seamless mobility
- You want "your" network provider to take care of everything
 - Your trusted provider may be the provider of more than networks
- You do **not want to be limited to your own devices** for access → Borrow a phone or laptop or use an embedded device in a hired car
- Customers want just easy communication and access to information
- For making business: The "big" can use the potential of the small → "Power Sellers" (eBay-like) for networks
 - Better business for all



Daidalos Project Architecture

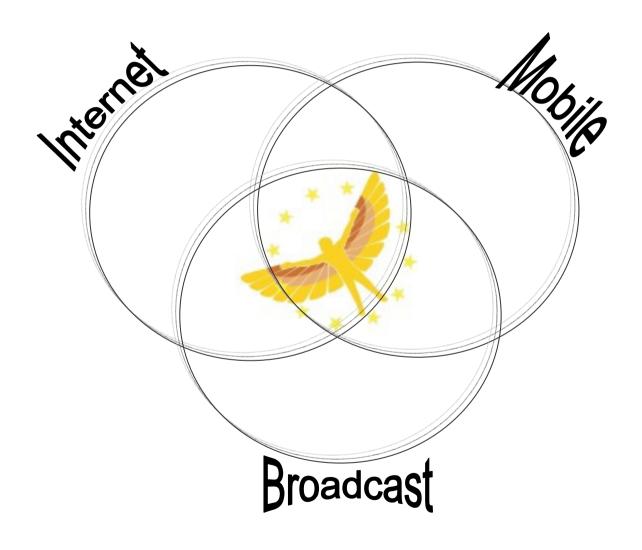






Daidalos Internet, Mobile, Broadcast Convergence









- Basis for Service & Network Management and Provision
- ► A4C
- Key Distribution Center
- Measurement System
- Service Discovery Server
- Security Services
- Policy based Network Mgmt. System
- MM Service Provisioning Platform
- QoS Broker
- Home Agent

Service Provisioning Platform

Administrative Domain 1



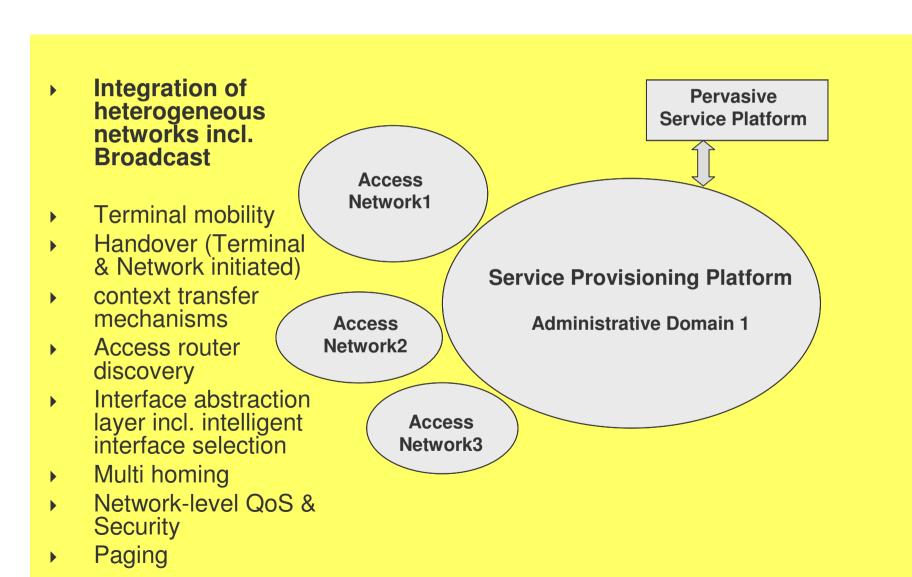
- Enabling pervasive services to the user
- Service Discovery & Service Composition
- Context Management Subsystem
- Personalization Subsystem
- Rules and Policy Subsystem
- Security / Privacy

Pervasive Service Platform

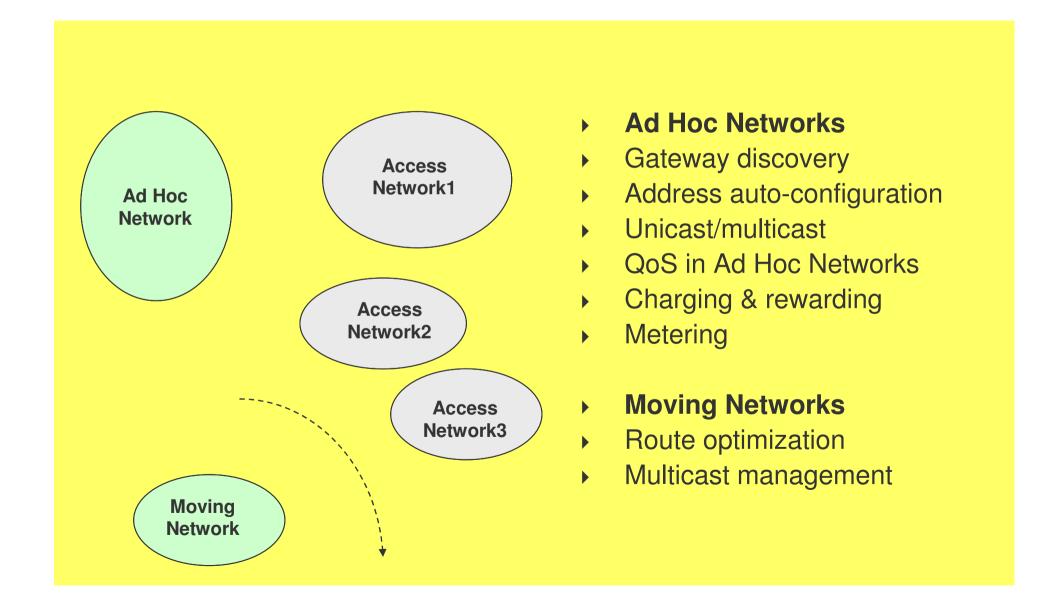
Service Provisioning Platform

Administrative Domain 1

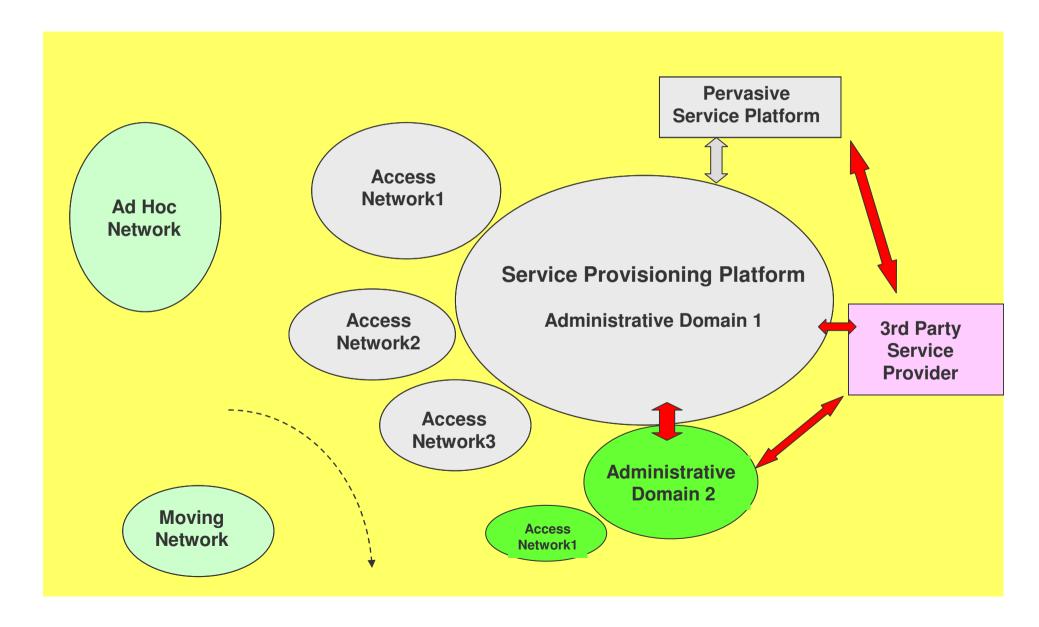






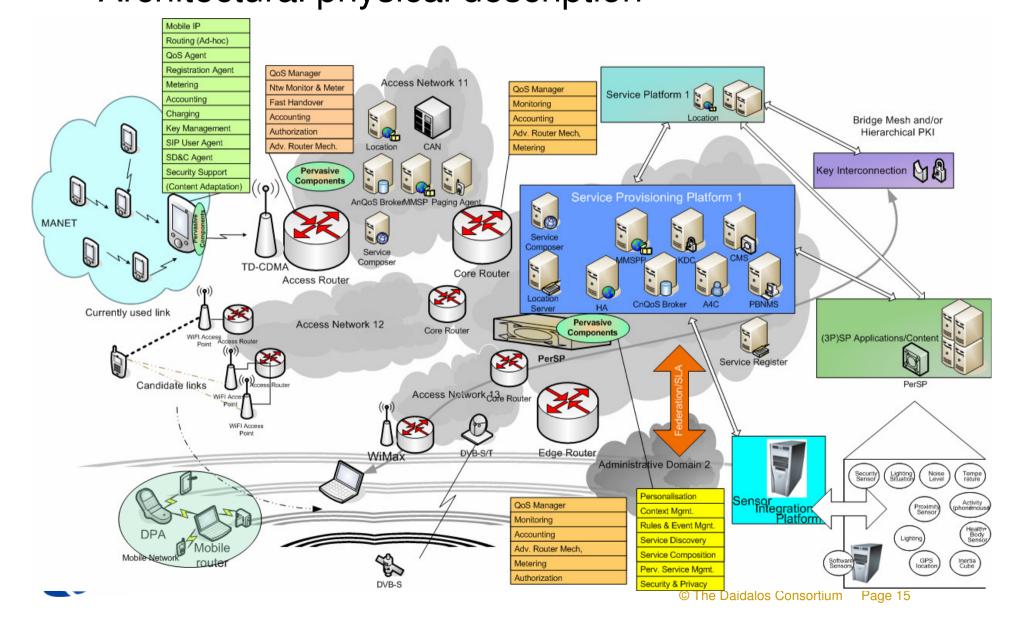






Daidalos Architectural physical description





Daidalos Key innovation and guiding concepts



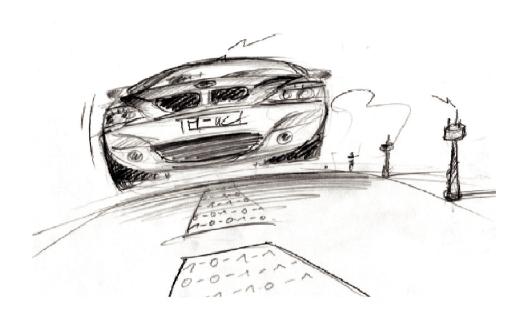
- MARQS (Mobility Management, AAA, Resource Management, QoS and Security)
 - functional integration for end-to-end services across heterogeneous technologies
- VID (Virtual Identities personalisation at all levels)
 - separates the user from a device, enables flexibility as well as privacy
- **USP** (Ubiquitous and Seamless Pervasiveness)
 - enabling global pervasiveness across personal and embedded devices, and allowing adaptation to changing contexts, movement and user requests
- SIB (Seamless Integration of Broadcast)
 - at both the technology level, such as DVB-S/T-H, and
 - at the services level, such TV, carousels and datacast
- **Federation** ("comperation": competitors in cooperation")
 - allowing network operators and service providers to offer and receive services
 - allowing players to enter and leave the field in a dynamic business environment



Daidalos scenarios

Automobile Mobility





Roles:

- mobile worker,
- family,
- -boss,
- business partner
- end-user perspective

Key Vision

 Mobility supporting services in and around the vehicle with aspects of personal multimedia, adhoc mobile networking and session mobility.





Daidalos scenarios

Mobile University



Roles:

- students
- teachers
- end-user perspective

Key Vision

Students studying abroad, having access to their personal set of services and dynamically discovering local services and devices.





Daidalos Integrated Project Consortium

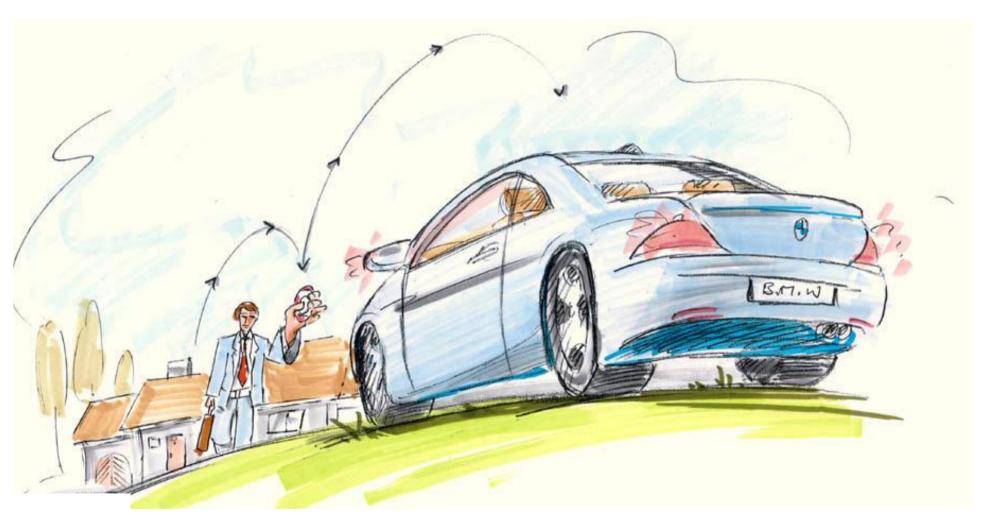








http://www.ist-daidalos.org/



Thanks for your attention!