



INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT

The Progress of the 1st year in the Project ITEA-ANSO

ITEA Symposium 2006/Workshop 3, 05.10.2006
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ANSO Project Overview



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- Autonomic Networks for SOHO (ANSO) users
- ITEA Roadmap : Digital Homes, Software Engineering, Nomadic, Network Transport/Protocols
- Current total effort of ANSO is ~100 man years
- Consortium: 16 partners from 3 countries:
 - Finland: VTT (Co-ordinator), Sesca Innovations, SWelcom, Icecom, Sofia Digital, VLP
 - Spain: HITEA, Univ. of Murcia, DS2
 - France: Thales Communications, EADS DS, Thomson, Schneider Electric, UJF Grenoble, France Telecom, CEA-List
- Project has started October 2005 and will continue until end of September 2007

ANSO Project Overview

Objective



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- ANSO (Autonomic Networks for SOHO) project's goal is to
 - Accelerate
 - The development of new networked multimedia services and their composition into innovative applications for digital home service exploitation in Europe
 - Develop
 - An intelligent dependable platform for the diverse SOHO network environment
 - Overcome
 - Technological constraints and create a standards based HW and SW networked system that will enable homogeneous access to heterogeneous multimedia services

SOHO = Small Office and Home Office

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ANSO Project Overview

Envisioned Innovations (1/2)



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- In order to realize the goals ANSO will focus on
 - development of an **Autonomic Distributed Middleware**, ADM
 - SW platform providing an open development environment for networked, and embedded applications and control supporting features like
 - plug-n-play,
 - service & resource discovery,
 - self-healing and configuring,
 - context-awareness,
 - QoS adaptivity,
 - interoperability and
 - Security.

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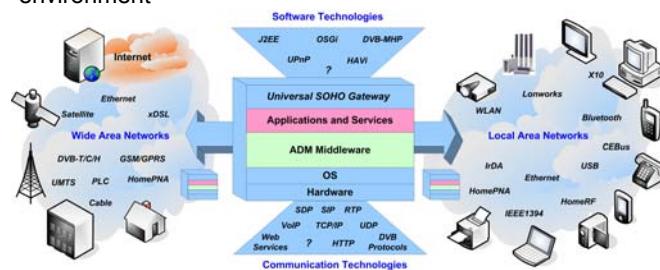
ANSO Project Overview Envisioned Innovations (2/2)



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- development of a **Universal SOHO Gateway (USG)**
 - a modular and self-configuring HW platform supporting service development and enabling interoperability of the home environment's digital devices
- and on the **integration** of the ADM and USG
 - Providing innovative building automation, multimedia, entertainment and other computing applications and services in the SOHO environment



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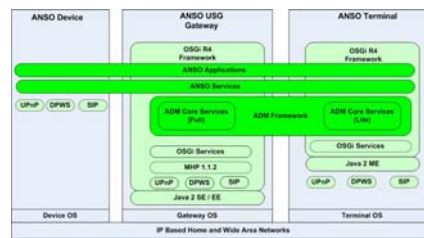
ANSO Project Overview Technical Development of ADM



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- **Autonomic Distributed Middleware, ADM**
 - Project consortium has agreed on the common architecture
 - Will be realized as a framework and core services inside OSGi R4 framework
 - Will be available in three configurations
 - For the gateway as full blown
 - Lighter version for terminals
 - For limited devices as libraries
 - UPnP, DPWS and SIP to be used as basic communication technologies
 - MHP 1.1.2 for multimedia services
 - User interfacing on TV
 - DVB connectivity
 - ADM Core services include services for
 - messaging,
 - service discovery,
 - service advertising,
 - access control,
 - data management,
 - context monitoring and
 - event Notification



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ANSO Project Overview

Results so far



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- Well advancing design of the common architecture
 - Ongoing studies and developments on the ADM middleware, the ADM services and context sensitivity
- Initial demonstrators completed
- Project partner's first product prototype purchased by the first customer
- First patent application
- The project is pushing OSGi Alliance to launch RFPs (Request For Proposal) in relevant ANSO technology domain
- Successful co-operation with other projects
 - Sharing info on DPWS from SIRENA by participating in a training session of the follow up project SODA
 - Market Survey information has been provided to other MEDEA+ (PlaNets) and IST (GST, mCDN) projects

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Thank you for your attention

