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AIM Project

AIM- A Novel Architecture for Modelling, Virtualising and Managing the Energy Consumption of Household Appliances- is a 24 months STREP Project of the ICT work Programme under the European Community's 7th Framework Programme (FP&) that completes in June 2009 its first year of activities and achievements.

AIM's main objective is to foster a harmonised technology for profiling and managing the energy consumption of appliances at home. AIM will introduce energy monitoring and management mechanisms in the home network and will provide a proper service creation environment to serve virtualisation of energy consumption, with the final aim of offering users a number of standalone and operator services.

AIM Achievements

Currently AIM has developed the first prototype version of the Energy Management Device (EMD) and has certified its operation in pilot communication scenarios involving white goods and the ESTIA gateway, from the European project ESTIA. In the next project year the EMD will be re-designed as a prototype and will be installed in test households to enable realisation of energy management applications for real users.

During its first period of work AIM set up a website for the project dissemination in which all the information related to the project is regularly updated. The Appliances profile specification and the Architecture specification were made available in public documents that can be downloaded at the project website.

The project produced three technical papers presented in International Conferences. More about these papers is described below.

AIM is officially involved in ITU-T focus group on ICTs and Climate Change (FG ICT&CC), contributing to two deliverables and co-editing one of them. AIM contributions to the FG ICT&CC started in September 2008.

Published Papers

AIM had its first publication at the 1st International Conference on Pervasive Technologies Related to Assistive Environments, PETRA2008, in Athens, Greece, July 16-19, 2008, with the paper "A pervasive network architecture featuring intelligent energy management of households".

Last March, at the European conference of the Czech Presidency of the Council of the EU TOWARDS eENVIRONMENT, e-Envi2009, in Prague, Czech Republic, March 25-27, 2009, **AIM won a first prize for best paper award** with the paper "A New Architecture for Reduction of Energy Consumption of Home Appliances".



The project had another publication last March, with the paper "A novel power line network architecture for managing the energy

resources of the residential environment”, at the 13th IEEE International Symposium on Power Line Communications and its Applications, ISPLC 2009, in Dresden, Germany, March 29-April 1, 2009.

All the publications are available for download at the project website.

Networking Session

AIM organized a successful Networking Session about ICT for Energy Efficiency through Home Automation, in collaboration with a Danish cluster of projects, at ICT2008 Event, the most important forum for discussing research and public policy in information and communication technologies at European level organised by the European Commission's Directorate General for the Information Society and Media, this time in Lyon, France, November 25-27, 2008.



The session comprised some projects presentations followed by a discussion session between the audience and five invited panellists. The presentations and report of the Networking Session can be downloaded from the events page, at the project website.

AIM at High Level Exhibition

AIM participated with a stand demonstrating the EMD in two different scenarios: communicating with a kitchen oven via powerline and with a TV via wireless, at the exhibition ICT4EE- High Level Event on ICT for Energy Efficiency, organised by The European Commission's Information Society and Media Directorate-General, in cooperation with the Czech Presidency of the European Union, held in Brussels, Belgium, March 19-20, 2009.



The documents and information concerning AIM dissemination activities can be found at the project website.

AIM Consortium

AIM is a consortium of eleven partner organisations from seven different European countries, co-ordinated by Eurescom. The AIM project combines a good balance between area's industries, with the collaboration of Infineon, Indesit and Philips; Operators, with the collaboration of France Telecom and Power Plus Communications; Universities or Institutions, with the collaboration of Eurescom, CEFRIEL and Polytechnic of Milan; and specialized systems developers, with the collaboration of Keletron, Doebelt and Bluechip Technologies.

For more information about AIM project, visit the project website: www.ict-aim.eu or send an e-mail to: info@ict-aim.eu