

eDIANA is progressing...

During these months since February, the eDIANA project has entered in a deep and intense activity period, especially in terms of analysing technological baseline results from ongoing internal and external research projects as well as defining a methodology for defining the eDIANA platform architecture.

As part of the market-oriented research carried on by the consortium, an initial market analysis and competitive assessment has been produced.

Moreover, a cutting-edge awareness and dissemination strategy has started to be implemented through two different channels: a renewed website where all the different stakeholders are able to find what the eDIANA consortium has progressed on and a recently created LinkedIn group where debates, news, jobs and different related issues can be shared among a worldwide group of interested players in embedded systems in particular and in ICT for energy efficient buildings in general. So far, more than 80 members are actively involved in this group and we hope to get many more during the next weeks.

Finally, as part of the importance of the topics included in the eDIANA research activity, the consortium has been invited to take part in some of the most relevant fora across Europe including the ICT for sustainable homes event in Nice (16th-17th November) and the EC Monitoring and Control for Energy Efficiency Concertation Meeting in Brussels (7th October). Last but not least, the eDIANA project will be presented and will be part of the exhibition sessions within the ARTEMIS Autumn Event in Madrid (29th-30th October)

Major achievements

Project partners have developed an intensive task of condensing in the most appropriate way, all previous research and products on the field of energy efficiency in buildings. This work has highlighted the great experience in this area of the entire consortium and contributes significantly to the initial work of the project.

The partners have invested tremendous effort in getting obtaining the requirements from the different stakeholders, in order to understand the needs in the market we have conducted interviews and focus group discussions with consumers in different end user in Europe but also interviewed for example appliance manufactures and energy retailers. This resulted in a firm overview of the requirements put by the market on such a system.

The partners are working to prepare Reference Platform document. Reference Platform definition is an important step for the project, information on requested interfaces were gather to contemplate all know user cases and now a preliminary first draft is shared between partners. Activity is in progress also to prepare the "Ontology Device Awareness" document. First test with chosen platform (SPEAR) are ongoing.

During the first six months of the project, WP10 has identified the knowledge, product and services that the project will deliver and classify them accordingly to their exploitation potential. A preliminary assess of the competitive environment around the project has also been carried out taking into account the relevance of the technological innovation that the project will bring. Finally, potential barriers for the final exploitation of the results and potential barriers towards the knowledge transfer have been analyzed.

eDIANA relevant dates

Upcoming Events

- 2 - 3 SEPTEMBER. DUISBURG, GERMANY. DESIGN AND OPERATION OF SMART, ENERGY EFFICIENT BUILDINGS ESTABLISHING EUROPEAN NETWORKS FOR INNOVATION
- 22 - 25 SEPTEMBER. SOPHIA ANTIPOLIS, FRANCE. SMART UNIVERSITY "BUILDING THE INTERNET OF THINGS: FROM VISION TO BUSINESS OPPORTUNITIES"
- 7 OCTOBER. BRUSSELS, BELGIUM. EC MONITORING AND CONTROL FOR ENERGY EFFICIENCY CONCERTATION MEETING
- 29 - 30 OCTOBER. MADRID, SPAIN. ARTEMIS AUTUMN EVENT/ CO-SUMMIT
- 16 - 17 NOVEMBER. NICE, FRANCE. ICT FOR SUSTAINABLE HOMES.

More Info at

[http://www.artemis-ediana.eu/
ediana_events_press.php](http://www.artemis-ediana.eu/ediana_events_press.php)

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Main Objectives

eDIANA's main goal is improve energy efficiency in residential and non-residential buildings through the use of embedded devices.

This project is a strongly application-oriented initiative which is focused on the conceptualization, design, development, demonstration and validation of new devices operating in a uniform platform called eDIANA.

Technical Approach

The eDIANA platform is a model-based architecture, implemented through an open middleware including specifications, design methods, tools, standards and procedures for platform validation and verification. eDIANA Platform will enable the interoperability of heterogeneous devices at the Cell (living/working units) and MacroCell (building) level, and it will provide the hook to connect the building as a node in the producer/consumer electrical grid.

Expected Impacts

The technology to be developed in eDIANA will improve energy efficiency and optimize building energy consumption by 25%, providing real-time measurement, integration and control. Moreover, comfort will improve making the user aware and enabling user-controlled policies for household devices. Such progress in the state of the art will enable the building to become an "active MacroCell" in the energy network, connected to similar MacroCells in the district or urban area.

Project Partners

