OpenIoT - Open Source blueprint for large scale self-organizing cloud environments for IoT applications

Program/Call Reference, Strategic Priority, Grant Agreement Number, Project Type

FP7-ICT-2011-7 ICT-2011.1.3 Internet Connected Objects
Grant agreement no: 287305, STREP Project

Project Summary

OpenIoT (http://openiot.eu) is a joint effort of prominent open source contributors (of the GSN (http://sourceforge.net/apps/trac/gsn/) and AspireRFID (http://wiki.aspire.ow2.org) projects) towards enabling a new range of open large scale intelligent IoT (internet-of-things) applications according to a utility computing delivery model. To this end, the project will research and provide an open source middleware framework enabling the dynamic formulation of self-managed cloud environments for IoT applications. The OpenIoT middleware framework will therefore serve as a blueprint for non-trivial IoT applications, which will be delivered in an autonomic fashion and according to a utility model. OpenIoT environments for internet-connected objects will greatly facilitate the deployment and delivery of applications, since they will enable businesses and citizens to select appropriate data and service providers rather than having to deploy physical sensors. At the same time, they will provide capabilities (such as on-demand large scale sensing), beyond what is nowadays possible. The open source nature of the project will facilitate enterprises to integrate novel added-value IoT solutions, based on the lowest possible Total Cost of Ownership, while at the same enabling students and researchers to experiment innovate and advance their IoT knowledge.

Project Starting Date and Duration / Total Cost – Total EU Contribution

1/12/2011, 36 months / 4.827.021 € - 2.455.000 €

AIT’s Role / Principal Investigator

Project Partner/ Prof. John Soldatos (jsol@ait.gr)

AIt’s Main Work Item

Orchestration and Workflow Management of Internet-Connected Objects, IoT-Cloud Integration, Middleware Development and Integration, Tools for IoT applications development

Main Partners (7 partners in Total)

<table>
<thead>
<tr>
<th>Partner Name</th>
<th>Role</th>
<th>EC Funding (approx.)</th>
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<tbody>
<tr>
<td>1 DERI</td>
<td>Project Coordinator</td>
<td>723.206,00 €</td>
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<tr>
<td>2 AIT</td>
<td>Research Partner</td>
<td>390.000,00 €</td>
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