



[www.openiot.eu](http://www.openiot.eu)

## OpenIoT Day

11<sup>th</sup> February 2015, Fraunhofer IOSB, Karlsruhe, Germany

### INVITATION

The OpenIoT Day is an event organized by the OpenIoT consortium following the EU IERC-Strategic Research and Innovation Agenda (2014 IERC IoT-SRIA) with focus on providing insights about the solution(s) for Service Openness and Semantic Interoperability for the Internet of Things. The OpenIoT Day is part of the OpenIoT Foundation kickoff/announcement as part of the OpenIoT project sustainability plan.

“OpenIoT has been awarded 2014 open source rookie of the year for the Internet of Things by Blackduck Software co. and Nominee for the Outstanding Academic Achievement at the 2014 Industry Awards by the Irish Software Association. OpenIoT community is attracting many developers and IoT solution providers through the already created OpenIoT open source community.”

#### OBJECTIVE

OpenIoT Day is an international event focused to understand the functionality and advantages of OpenIoT platform for the Industry, no technical sessions no deep details but an overview about the OpenIoT platform and Tools.

OpenIoT Day welcomes any industry, SME, developers community interested to participate, contribute, develop and acquire the know-how about IoT technology and services based on the OpenIoT middleware.

“OpenIoT platform is an implemented OPEN SOURCE horizontal platform to enable interoperability between IoT verticals and Data silos for a unified IoT world”.

OpenIoT by design fits into a definition of a fully open source and easy to adapt Internet of Things platform where related topics, from sensor networks, sensing data, stream data processing, methods and protocol implementation to service openness, interoperability, service scheduling, delivery, utility management fits. OpenIoT offers a wide range of demonstrators and service applications, their applications focus on IoT horizontal solutions in multidisciplinary areas, but not limited to Smart City, Smart Spaces, Intelligent Manufacturing, Digital Agriculture, IoT Large Scale Deployments, M2M Interoperability Platforms, Smart Appliances and Devices, Assistance Living,

Crowdsensing monitoring solutions etc.).

## WHAT TO EXPECT

Understand the OpenIoT architecture, usability and adaptability of the developed OpenIoT tools for the Internet of Things industry needs, directly from the experts in designers and system architects.

Experiences from industry and academics sharing best of their insights from using OpenIoT middleware.

## OpenIoT DAY FORMAT

OpenIoT Day is a unique opportunity to learn directly from OpenIoT idea creators, technical experts and developers about the status, progress and plans for OpenIoT architecture in and for the industry.

OpenIoT Foundation kickoff is also part of the expected outcomes.

OpenIoT Day combines keynote talks lectures on conceptual and application aspects of the Internet of Things with solid understanding and experiences and success stories using OpenIoT middleware.

## WHY TO ATTEND?

The aims of the OpenIoT Day are to:

Learn the design principles, core architectural components, basics of functionality, practical experience(s) and success stories about open source blueprint for large Scale Self-organizing Cloud Environments for Internet of Things Applications and understand more about the awarded OpenIoT framework and available Tools.

## OpenIoT Design and Principles

- Overall aspects for Internet of Things.
- Core components and applied aspects for OpenIoT Architecture.
- Service Openness and Interoperability principles.
- Recent advances in the OpenIoT as open source platform.
- Important research challenges and directions for semantic interoperability.

## Networking

- Contact with experts in the IoT domain(s) at first class research facilities.
- Networking with OpenIoT creators and experienced architects.
- Industrial exchange and future collaborations.
- Brainstorming, discuss and share your own ideas.
- Expand your skills and expertise on handling OpenIoT solutions.

## REGISTRATION

Please fill the online attendance list (indicating your organisation: "name+surname [company]" ) at <http://doodle.com/7s2gm8gcvmmdmaf8y> .

Once you fill the attendance list please register your data at <http://openiot.eu/?q=contact> with the subject "OpenIoT DAY 2015" and a short message why you want to attend the OpenIoT Day, Soon after you register, we will send you an email to confirm your registration and with the instructions regarding the OpenIoT Day. In the unlikely event question arise during the registration process, please contact us by [info@openiot.eu](mailto:info@openiot.eu)

## THE COST

The OpenIoT Day participation is FREE of cost, but places are limited, register now!

Morning Coffee Break and Networking Lunch: Sponsored by Fraunhofer IOSB

NOTE: Participants are responsible for making their own travel arrangements.

## AGENDA

09h00 Welcome

Thomas Usländer, Fraunhofer IOSB

09h10 OpenIoT project presentation

Martin Serrano, INSIGHT, OpenIoT Project Manager

09h45 OpenIoT Software presentation (architecture + offering as open source)

John Soldatos, AIT Greece

10h15 OpenIoT Foundation announcement

Martin Serrano, INSIGHT

10h30 Break

11h00 OpenIoT Scenario Presentations and Demonstrations

Intelligent Manufacturing (SENSAP)

Collaborative e-Science (CSIRO)

Smart Cities/Campus (Fraunhofer IOSB)

Smart Cities/Crowdsensing (UniZ-FER)

12h30 Lunch

13h30 Invited talk: "Assisted living projects using ARM technology for sensors and OpenIoT" (Shivakumar Mathapathi, DEW Mobility, Fremont, US)

14h00 Discussion: Internet of Things and the role of Semantics

14h45 Conclusion and Outlook (Martin Serrano, Thomas Usländer)

15h00 End

## VENUE

The OpenIoT Day is hosted at:

FRAUNHOFER IOSB

Fraunhoferstraße 1, Karlsruhe, Germany



See <http://www.iosb.fraunhofer.de/servlet/is/12744/> to get directions how to find us.

## ABOUT OpenIoT

In December 2011 the OpenIoT consortium join efforts to unify technology and services designing an OpenIoT application and services to create an ecosystem for the Internet of Things (IoT) using semantic technologies, cloud computing and autonomic principles as main enablers, privacy, security and mobility are also main aspects considered as crucial to enable within the IoT ecosystem.

Since September 2012 the fully OPEN SOURCE OpenIoT framework design was announced and the OpenIoT Architecture specifications was made public. In April 2013 the OpenIoT modules were tested and the first integrated prototyped tested.

September 2013 OpenIoT platform was made fully available to the Open Source community for creating real time IoT services on demand and enable interoperability between vertical IoT solutions and interconnect data silos.

May 2014, the OpenIoT framework (BETA version v0.1.1) was released via the github project management portal <https://github.com/OpenIoTOrg/openiot>. Likewise the first version of the Virtual Development Kit – OpenIoT-VDK (running Linux) with the complete OpenIoT platform pre-installed and preconfigured for academic use was released. It can be downloaded from the OpenIoT github wiki. <https://github.com/OpenIoTOrg/openiot/wiki/Downloads>.

The Virtual Development Kit (OpenIoT-VDK V1) developed and implemented, features the OpenIoT latest release i.e. v0.1.1 and it's size is 5,7 GB. The OpenIoT-VDK facilitates the learning and use of the OpenIoT framework for an easy adoption and it is industry friendly and totally open for academic purposes. The OpenIoT-VDK instance deploys the IoT service delivery model facilitating the validation of use cases by using the OpenIoT platform.

June 2014, the second version of the Virtual Development Kit is announced at EUCNC 2014 conference – OpenIoT-VDK V2 (running Linux) with the complete OpenIoT platform pre-installed and preconfigured for academic use. OpenIoT-VDK V2 features the OpenIoT latest release i.e. v0.6.1 It can be downloaded from the OpenIoT github wiki. <https://github.com/OpenIoTOrg/openiot/wiki/Downloads>.

October 2014, the second version of the Virtual Development Kit is distributed at the IoT 2014 Conference, MIT Media Lab, Cambridge MA, U.S.A., OpenIoT-VDK V2 was used at the MIT IoT Hackaton to create an IoT Industry-oriented solution in 24 Hours and using out of the shell market sensors (i.e. HopUbiquitous basic and NetAtmo).

February 2015, the OpenIoT Day is organized as part of the OpenIoT Foundation kickoff sustainability plan, The OpenIoT Cookbook including the full specification of the OpenIoT platform is announced.

## SUCCESS STORIES

OpenIoT has been the receiver of the 2014 Open Source Blackduck Rookie of the year in the area of the Internet of Things. OpenIoT is maintained by the EU project consortium led by Insight-NUI Galway, See the press communicate as follow for more details:

“BURLINGTON, Massachusetts USA and Galway, Ireland, 2014 — Black Duck Software announced that OpenIoT was named a Black Duck Open Source Rookie of

the Year in the area of the Internet of Things. The sixth annual Black Duck Open Source Rookies of the Year awards recognize the top new open source projects. This year's honorees span cloud and software virtualization, privacy, social media, and Internet of Things (IoT) projects addressing needs in the enterprise, government, gaming and consumer applications, among others, and reflect important trends in the open source community."

Press Release:

<http://www.blackducksoftware.com/news/releases/black-duck-announces-open-source-rookies-year-winners>

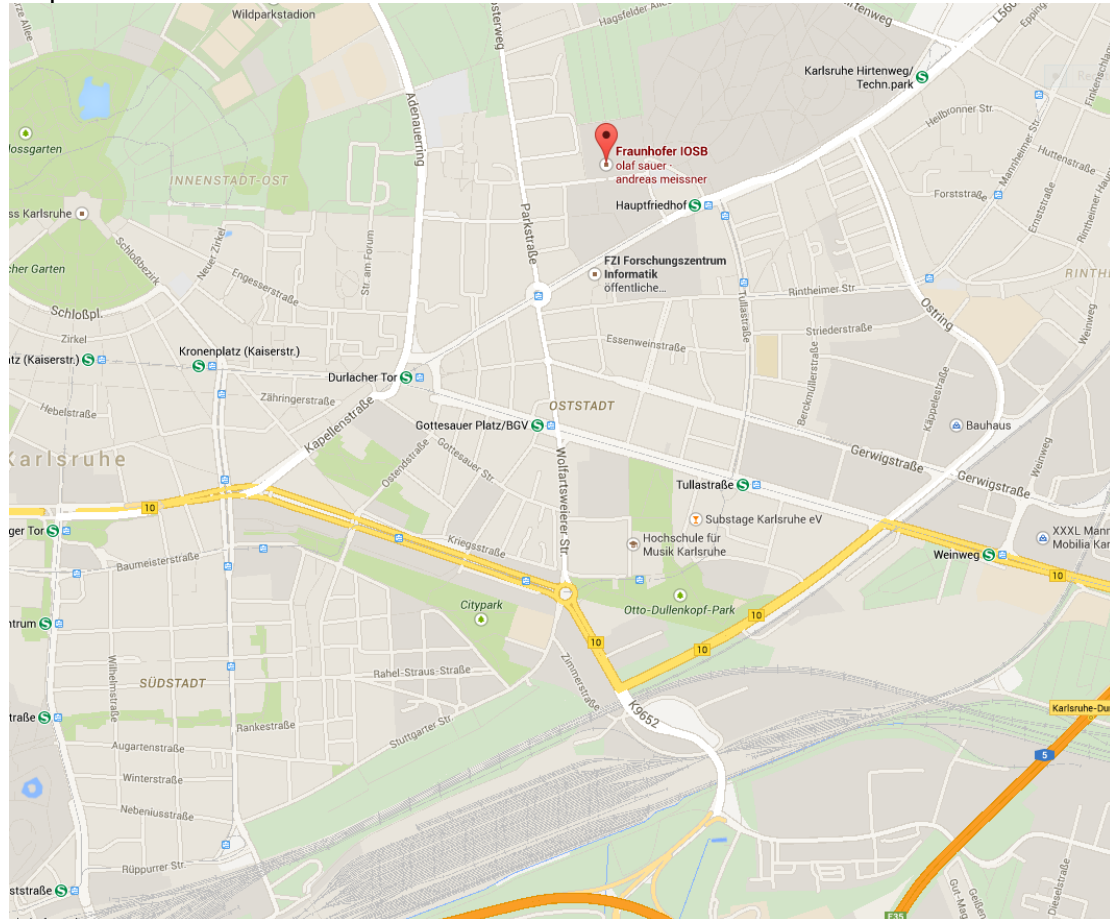
## VENUE

The OpenIoT Day is hosted at:

Fraunhofer IOSB

Fraunhoferstraße 1, 76131 Karlsruhe, Germany

Map:



## ACCOMMODATION

We kindly ask you to book your own accommodation for the time you are staying in Karlsruhe.

Hotel suggestions

Walking distance from the Fraunhofer IOSB:

Hoepfner Burghof (3 \*\*\*) -> 83€ per night; breakfast included

Haid-und-Neu-Straße 18

76131 Karlsruhe

Telefon 0721-622644 oder 0721-6807828-0

Fax 0721-6635066

rezeption@hoepfner-burghof.de

Hotel Hasen

Gerwigstrasse 47

76131 Karlsruhe

Telefon: 0721 / 9637 0

Telefax: 0721 / 9637 123

Email: [info@hotel-hasen.de](mailto:info@hotel-hasen.de)

### City Center

Novotel Karlsruhe Kongress  
Festplatz 2, 76137 Karlsruhe  
Telefon 0721 3526-0  
[www.accorhotels.com](http://www.accorhotels.com)

Leonardo Hotel Karlsruhe  
Ettlinger Straße 23, 76137 Karlsruhe  
Telefon: (07 21) 37 27 - 0  
<http://www.leonardo-hotels.de/deutschland-hotels/hotel-karlsruhe/leonardo-hotel-karlsruhe>

### Near the Main Station

Hotel Ibis Karlsruhe City  
Poststraße 1, 76137 Karlsruhe  
Telefon 0721 35232-0  
[www.ibishotel.com](http://www.ibishotel.com)

Schlosshotel  
Bahnhofplatz 2, 76137 Karlsruhe  
Telefon 0721 3832-0  
[www.schlosshotel-karlsruhe.de](http://www.schlosshotel-karlsruhe.de)

## TRAVEL

Arrival at Frankfurt International Airport – Germany

[http://www.frankfurt-airport.de/content/frankfurt\\_airport/de.html](http://www.frankfurt-airport.de/content/frankfurt_airport/de.html)

Traveling to Karlsruhe by train:

Tickets and Train Information

- DB TravelCenter (Reisezentrum) in Terminal 1, B Concourse, Level 0 and the long-distance train station on Level 3 of the AIRail Terminal.
- Ticket machines in Terminal 1, B Concourse, Level 0.
- Online: [www.bahn.de](http://www.bahn.de)

Link to Airport Map:

[http://www.frankfurt-airport.de/content/frankfurt\\_airport/de/anreise/lageplaene0/terminal\\_1\\_terminal2.html](http://www.frankfurt-airport.de/content/frankfurt_airport/de/anreise/lageplaene0/terminal_1_terminal2.html)

OpenIoT Consortium 2014

