

Invitation

OSIRIS Sensor Web Workshop

23rd and 24th March 2009, Münster (Germany)



Applications in the field of disaster management and environmental monitoring rely more and more on sensor networks. For integrating sensor networks into software systems, service oriented architectures are a commonly used paradigm. Especially the Sensor Web Enablement (SWE) standards of the Open Geospatial Consortium (OGC) provide a solid foundation for ensuring interoperability between sensor networks and application systems.

Since 2006 the OSIRIS project has been working in this field in order to evaluate and improve the OGC SWE architecture. Thus a broad range of experiences has been gained in applications ranging from fire detection to air and water pollution monitoring. As these experiences are a valuable input for other users, initiatives, organizations and projects interested in this field, this workshop is intended to demonstrate the results of the OSIRIS project, to discuss the current state of SWE, provide guidance on the application of SWE, exchange between SWE users and to develop an outlook for future perspectives.

Objectives of the workshop

- Showing results of the OSIRIS project:
 - Sensor Web architecture
 - Sensor Web application implementations
 - Sensor Web technology in use cases like water pollution, air pollution, fire detection and forest fires
- Exchange with users and other projects (finished, ongoing and future)
- Exchange between people who have gained experiences with the Sensor Web and those who might be interested in using the Sensor Web technologies for their own use cases
- Sharing examples of Sensor Web applications
- Providing guidance how Sensor Web technologies can be used and how to create a Sensor Web based system
- Evaluating the current state of the Sensor Web architecture
- Discussing the user needs and how the architecture has to evolve in order to fulfil these requirements
- Developing ideas for future Sensor Web concepts



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About OSIRIS

OSIRIS (Open architecture for Smart and Interoperable networks in Risk management based on In-situ Sensors) is a Sixth Framework Programme Integrated Project of the European Commission, aligned with GMES (Global Monitoring for Environment and Security). The project started in September 2006 and will end in April 2009.

OSIRIS provides a Service Oriented Architecture based on standards, especially relying on and improving the Sensor Web Enablement (SWE) components of the Open Geospatial Consortium (OGC). This architecture provides functionality ranging from in-situ earth observation to user applications.

Within OSIRIS four key areas of major environmental risk are investigated:

- forest fires: early detection of forest fires and efficient handling of the crisis situation if a fire occurs
- industrial risks: more reliable fire detection by combining various sensor types and thus especially reducing the number of false alarms
- unexpected fresh water pollution: sensor networks for detecting natural arsenic concentration as well as accidental hydrocarbon pollutions
- air pollution in urban areas: using mobile as well as fixed sensors linked to simulation models for assessing the air quality

The SWE based OSIRIS architecture addresses the smart deployment, use, reconfiguration and integration of in-situ sensor systems. Thus, it provides a scalable and flexible solution for building complex monitoring applications based on sensor networks.

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Agenda

Monday, 23rd March		Tuesday, 24th March	
10:00 – 10:30	Welcome and introduction into the basics of the Sensor Web	09:30 – 10:30	Summary of Day 1
10:30 – 12:30	Presentation of OSIRIS, its use cases, implementations and the practical experiences gained during the project	10:30 – 11:00	Coffee break
12:30 – 13:30	Lunch (on your own)	11:00 – 12:30	Break out session for discussing the current state of the Sensor Web, requirements arising from practical applications and needs for the future
13:30 – 15:00	Presentations of the workshop participants: projects, experiences, requirements, use cases, needs and applications	12:30 – 13:30	Lunch (on your own)
15:00 – 15:30	Coffee break	13:30 – 14:30	Presentation of the results of the breakout sessions
15:30 – 17:00	Presentations of the workshop participants: projects, experiences, requirements, use cases, needs and applications	14:30 – 15:30	Plenary discussion on a Sensor Web roadmap based on user needs, requirement and experiences
		15:30 – 16:00	Conclusion

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Workshop Organization

Registration

For registering please send an email to Simon Jirka (jirka@uni-muenster.de). Although the workshop is free of charge a registration is necessary as the number of participants is limited. Please mention in your registration email if you would like to make a presentation about your Sensor Web related projects or applications at the workshop.

Workshop Location

The workshop will be held at the University of Münster. The exact location will be published later via email as it depends on the number of registered participants.

Travelling to Münster

By Plane

There are two airports conveniently located for travelling to Münster.

The airport Münster/Osnabrück (FMO) is located about 25 kilometres north of Münster. There are several daily direct connections to major European airports like Paris, London, Frankfurt, Munich and Vienna. To go from the airport to Münster you can either use a bus shuttle (every 30 minutes, duration 40 minutes) or a taxi (ca. 50 Euros).

Alternatively you can fly to the airport of Düsseldorf (DUS) which offers connections to nearly all big European cities. There are frequent train connections (see below) from the airport to Münster (duration 75 to 90 minutes).

By Train

The train station "Münster (Westf) Hbf" is well connected to the German railway system. There are hourly long distance train connections to several cities within Germany. You can use the web site of the German railways for planning your journey: <http://www.bahn.de/international>

Accommodation

Within the centre of Münster there are plenty of hotels available. We recommend these hotels:

- Hotel IBIS Münster: <http://www.ibishotel.com/gb/hotel-2206-ibis-muenster/index.shtml>
- Mercure Hotel Münster City: <http://www.accorhotels.com/gb/hotel-5415-mercure-hotel-muenster-city/index.shtml>
- Mövenpick Hotel Münster: <http://www.moevenpick-muenster.com/>

Besides these hotels there are further good hotels in Münster that you can choose for your stay. An overview can be found here: <http://www.muenster.de/stadt/tourismus/en/hotels.htm>

Information about the City

If you would like to know more details about Münster you can visit the official tourism web site of the city: <http://www.muenster.de/stadt/tourismus/en>