



OpenNICTA Open Source Software Information and Video Transcript

Software name: NOSA

Software description: NICTA Open SensorWeb Architecture (NOSA) presents a reusable, scalable, extensible, and interoperable service oriented Sensor Web architecture that (i) conforms to the SWE standard; (ii) integrates Sensor Web with Grid Computing and (iii) provides middleware support for Sensor Webs.

Project description: Developed as part of the [NOSA Project](#) at NICTA.

Link to Software: http://nicta.com.au/research/project_list/completed_projects/nicta_open_sensorweb_architecture

Video Transcript

Interview with Chris Leckie

Tell us about yourself and the research you are currently working on

Chris: My name is Chris Leckie. I'm from the NICTA Victoria Research Laboratory where I am a Contributed Researcher and I'm also from the Department of Computer Science and Software Engineering at the University of Melbourne. I've been leading a project team that has been looking at developing a suite of software services for wireless sensor networks and this project has been called the NICTA Open SensorWeb Architecture, or NOSA project.

Tell us about your open source software

Chris: So, with wireless sensor networks they provide a low-cost solution to easily deploy sensors in an environment and then collect data for whatever type of monitoring application you have in mind. One of the challenges for application developers in this context is how to integrate different types of wireless sensor networks together. So, by developing the NOSA software platform, we've implemented standard types of web services that can be used for common tasks like data collection or event notification.

Why open source?

Chris: The reason for taking an open-source path in the development of NOSA is two-fold. First, we wanted to – this a rapidly evolving area - so the developers that we've spoken to, the feedback that they've given us has been that they want to be able to trust the software services that they're using, and they want to be able to adapt them when new types of sensor platforms become available. The other reason is that it opens up a wider range of developers and contributors to the software, so now staff and students, for example from the GRIDS Laboratory here at the University of Melbourne, are now contributing to the ongoing development and maintenance of NOSA.