



**Maintaining a sustainable Future  
for IT in Higher Education**

**Thursday 16th June 2011**

**Poster Session**

## **OAuth2lib Based Groups Management Tool for Authorization and Services Aggregation**

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### **Abstract:**

Over recent years we have seen the consolidation of a new generation of federated identity management technologies focused on solving the problems related to identification processes. Now that authentication management schemes look as fully established, the authorization appears as the next major problem to solve, largely due to its increased complexity because, while authentication is basically a matter of "all or nothing", authorization requires greater granularity in managing roles and permissions depending on the application.

In this poster a groups-based permissions management tool is presented with several distinctive features: lightweight web application, easy to use by the end user, with the possibility of hierarchical groups, integrated mechanism for members invitation, roles management and associated permissions, all focused into making group owners able to fully manage the creation and maintenance of their work groups.

To be useful as authorization source, the group management tool must be fitted with some mean to provide the applications with appropriate information about the available groups, users who belong to them, their roles and associated permissions in every application. For this purpose, the group management tool makes use of OAuth2lib, an OAuth2 library developed by RedIRIS, the Spanish NREN, which implements the Assertion Profile OAuth 2.0 protocol and for this reason is particularly appropriate in this case.



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As a result, a services aggregation architecture is proposed built around that model, where group management tool and services communicate with identity providers through some assertion scheme (i.e. PAPI, SAML 2) and between them through the OAuth2 library.