

# Design of Gluon: an Atom-oriented approach for publishing GLUE 2.0 information

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The GLUE 2.0 specification is an upcoming OGF specification for standard-based Grid resource characterization to support functionalities such as discovery, selection and monitoring.

An XML Schema realization of GLUE 2.0 is available, nevertheless, Grids still lack a standard information service interface. Therefore, there is no uniform agreed solution to expose resource descriptions.

On the other side, the Atom Syndication Format (ASF) and the Atom Publishing Protocol (AtomPub) are Web standards which enable the publishing and editing of Web resources using RESTful HTTP and XML. These standards are successfully adopted to provide access and manipulation to a large variety of information in the Web. For instance the Google GDATA API, which is based on AtomPub, offers access to most of the Google services. In this paper, we propose to leverage these standards in order to represent GLUE 2.0 information using ASF, and to publish them via AtomPub. By this approach, we provide a uniform approach that could be adopted by all Grid services to expose GLUE-based information in a common manner. In this study, we consider also extensibility aspects to support the inclusion of extra information not captured by the GLUE specification.

## Presentation type (oral | poster)

oral

**Primary authors:** Mr MAGNONI, Luca (INFN-CNAF); Dr MARZOLLA, Moreno (INFN-Padova); Mr ZAPPI, Riccardo (INFN-CNAF); Dr ANDREOZZI, Sergio (INFN-CNAF)

**Presenter:** Dr ANDREOZZI, Sergio (INFN-CNAF)

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