

# All-in-one graphical tool for grid middleware management

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When dealing with grid environments, grid middleware are powerful tools for the development of computational servers able to exploit the available resources. But managing a grid middleware, and a fortiori the grid environment itself can be a hard task when no dedicated tools exist. Some are usable through nice graphical interfaces, but they are all dedicated to one or some limited tasks and do not fulfilled all the needs of a grid end-user wanting to deploy grid applications easily and fastly. The aim of this paper is to present an all-in-one software, designed for the management of grid middleware gathering user-friendly graphical interfaces answering to the various needs of a end-user. The software moreover eases the use of the grid by avoiding the scripting layer under a nice GUI enabling the user a faster and more efficient use of the grid environment. By this way they demonstrate how the DIET Dashboard fulfilled all the needs of an unified tool for the grid management.

## 3. Impact

From the knowledge of DIET Dashboard we have provided a tool, called GRUDU, to ensure deployment and reservation on the french Grid Grid'5000. For the EGEE community and the Grid'5000 community it could be interesting to share around how to use a Grid.

**If demonstration is requested please explain what visual or interactive aspects of the contribution necessitate a demonstration rather than a presentation or poster?**

Two ways :

- A presentation to describe the tool (with screenshot inside)
- A demonstration to show the tool in usage (using Grid'5000)

## URL for further information:

<http://graal.ens-lyon.fr/DIET>

## 4. Conclusions / Future plans

The DIET Dashboard is designed to be a complete, modular, portable and powerful set of tools dedicated to a grid context. With this tool user can manage grid resources, monitor the grid itself and manage the grid middleware by designing your grid applications or using workflows and then deploying these grid applications on the grid environment. The DIET Dashboard offers a large number of modules, created to answer the different needs of tools appearing in a grid context.

**Provide a set of generic keywords that define your contribution (e.g. Data Management, Workflows, High Energy Physics)**

Vizualisation, Deployment, Resource reservation, Workflow

## 1. Short overview

The DIET project is focused on the development of scalable middleware with initial efforts dedicated to the distribution of the scheduling problem across multiple agents. DIET consists of a set of elements that can be used together to build applications using the GridRPC paradigm, standard from the OGF. To evaluate

the performances of DIET on the french grid Grid'5000 and present its fonctionnalities in a demo, the DIET DashBoard and its fork GRUDU are very useful.

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