



## OGSA-DAI Developers Tutorial

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### Abstract:

The UK based Open Grid Service Architecture - Data Access and Integration (OGSA-DAI) project has been producing middleware components required to access and integrate data in a Grid environment. Our goal is that Grid data services will provide the ability to discover, manage, and access data resources within an OGSA compliant architecture.

The OGSA-DAI software supports access to data in relational databases (MySQL, DB2, Oracle, SQLServer and Postgres), and data in XML repositories (Xindice), and will be supporting other data resource types in the forthcoming release later this year.

This tutorial is split into two halves. The first part provides an introduction to the functional capabilities of Grid data services and the design of the OGSA-DAI architectural framework. The second half introduces various aspects of OGSA-DAI for Grid developers and also features demonstrations and hands on tutorials based on the current release of OGSA-DAI which guide attendees through the stages of creating applications to access Grid data services.

### Overview:

- Data and the Grid
- Grid Data Services
- Introduction to OGSA-DAI
- OGSA-DAI Architecture
- Writing Activities in OGSA-DAI
- Writing Applications using the OGSA-DAI Client Toolkit
- Client Toolkit practical exercises (see requirements below)

### Requirements for the practical exercises:

You will require a laptop computer with a network connection and some software installed. You should ensure that you have downloaded and installed Apache's Tomcat server, the Globus Toolkit 3.2 and OGSA-DAI 4.0 as well as have access to a database - we recommend installing a local MySQL server. Full instructions for doing this are available at:  
<http://www.ogsadai.org.uk/docs/current/doc/INSTALL.txt>

### Audience:

Scientific application developers (whole tutorial), those interested in accessing data from different data resources (first half).

Attendees must have a basic understanding of Java, XML and Grid concepts and must have a laptop with relevant software installed to participate in the practical exercises. For more details, visit the project website:

<http://www.ogsadai.org.uk>