

GT4 Component Fact Sheet

OGSA-DAI

Last updated: 19 July 2004

General Component Description

OGSA-DAI aims to provide uniform methods for discovering, accessing and integrating heterogeneous data resources, primarily databases, on the Grid. An extensible framework allows developers to build project specific functionality in addition to the standard querying, database management, data delivery, transformation and compression functionality provided.

Officially supported databases include:

- MySQL 3.2.x / 4.0.x
- DB2 8
- Oracle 9i / 10g
- Xindice 1.0
- SQL Server 2000
- PostgreSQL 7.x

Additionally – though not officially support – most databases with JDBC, ODBC or XML:DB interfaces which support the SQL or XPath query languages can be published using OGSA-DAI. Supported data delivery methods include SOAP to client, to file, HTTP(S) streams, and GridFTP and FTP to separate server.

What's New in GT4?

Since OGSA-DAI Release 3.1.1 (distributed with GT 3.2) there have been the following major changes:

- Support for SQL Server and PostgreSQL databases
- Support for the Client Toolkit API for Java
- Improved performance and stability (new memory management)
- Encrypted Role Map files
- Message Level Security for the GDT (previously only the GDS and GDSF)
- Support for the latest version of the WebRowSet schema
- A new DataBrowser client for accessing SQL-queryable data
- Documentation in full XHTML format
- A tutorial and examples for the Client Toolkit

Backward Compatibility Statement

Every effort has been made to make OGSA-DAI R5.0 compatible with previous versions, however we anticipate some changes due to the move from OGSi to WS-RF. The interface names and schema for documents remain similar but some have changed to better reflect the new representational model in R5.0.

Technology Dependencies

- Java 1.4
- Java WS Core
- GridFTP is required for the “Deliver to GridFTP” option
- A supported database driver is required for each data resource