

Object Persistent Package 1.0

The Object Persistent Package represents an OSGi version of the open source "db4o" database for Java (<http://www.db4o.com>). The database is accessible through a simple OSGi-compliant service. The currently integrated version of db4o is 6.3.

Features

- Persistent storage of Java Objects for OSGi bundles
- Automatic handling of object interrelations (inheritance and object associations).
- Storing of collections and arrays
- Support of three different queering systems, Query by Example (QBE), Native Queries (NQ) and the SODA Query API (SODA)

Benefits

- Fast and reliable database for storing of Java Objects and Java Object Graphs
- Easy ways of finding the stored information. No need to map objects to SQL
- Transactions and concurrent access
- Fast set-up of the db4o and easy developer learning curve

db4o is designed to provide a full-featured, embeddable database engine for equipment, mobile, desktop and server platforms in object-oriented environments. Integration of db4o in the OSGi Framework gives a powerful tool to the OSGi developers. They can:

- Eliminate tools and code necessary for object-relational mapping, which is proven to drive up code complexity and resource-consumption while inhibiting performance and refactorability.
- Build applications with seamlessly integrated data storage that does not need runtime administration, is highly reliable and much faster than conventional or proprietary database engines.
- Benefit from object-oriented paradigms without being constrained by the database, resulting in the deployment of more complex, i.e. naturalistic and feature-rich object models without driving up cost and resource consumption.

- Change, refactor and reuse software components with the ability to add new software features without breaking the legacy code or incurring too high cost - allowing more flexibility to stay ahead of the competition.

Object Persistent Package lets the developer to work with object structures almost as though they were 'in-memory' structures. Little additional coding is required to manage object persistence.

Additional capabilities and packages of mBedded Server and other ProSyst products are explained in the data sheets available for each product.

If you have any further questions, we will be happy to assist. Please contact us via info@prosyst.com or visit our Developer Zone at dz.prosyst.com