



# EasyDB

Distributed Object Database Management System

*EasyDB – the real ODBMS from Basesoft Open Systems. EasyDB merges the benefits in object-oriented technology with the features in a multi-user database management system. EasyDB is designed for distributed environments and with high performance in mind. The result is a powerful ODBMS that meets the complex information needs of today’s organizations and the high performance needs from applications like CAD/CAM, CASE, CAE, GIS, CIM and multimedia.*



## The Advantages of EasyDB

The EasyDB distributed object database management system is a result of many years of extensive R&D within two Swedish national information technology programs. Utilizing the latest generation of object-oriented database technology for embedded single-user or multi-user networked applications, the design offers exceptional performance, flexibility, reliability and ease-of-use.

The highlights of EasyDB are:

- Fully distributed, multi-client, multi-server architecture.
- Distributed storage and access transparent to the user.
- Well integrated language bindings to Ada83, Ada95, C and C++.
- Multiple language access and data independence between different programming languages.
- Conceptual modeling approach – intuitive and natural Data Definition Languages, based on the well known ERA-technique combined with object orientation. The user can choose between a graphical or a textual notation.
- Dynamic schema evolution, i.e. the user can change the schema without interrupting running applications or need of recompiling.
- Application views may be defined from the total schema.

- Interactive ad-hoc query language (O-SQL).
- Powerful type system with possibilities to define ranges of permitted values. In addition to conventional data types there are *bytestream* and *database reference* (link).
- Support for bidirectional relationships.
- Support for short and long transactions.
- Support for versioning.
- Dynamic and static name resolution.
- Easy reconfigurable, extended or downsized.
- Effective concurrency control schemes.
- High reliability and powerful error/conflict/exception handling.



