



### New Features in FireStorm/DAO 2.1

" We specialize in fast, high-value projects with real, hard deadlines under must-win business scenarios – so the rapid prototyping provided by FireStorm/DAO directly aligns with our business model. We've found that the code generated by FireStorm/DAO to be almost identical to hand written code. The difference is that FireStorm/DAO takes a few minutes to do what could take several days of hand coding. "

Alex Shmelev  
President  
Alerois Corporation

The new features provided in FireStorm/DAO 2.1 are:

- **Round Trip Engineering**

A synchronization wizard makes it easy to import new versions of a database (JDBC or SQL) schema without losing modifications made to a FireStorm/DAO project file. This feature is designed to allow iterative development and was added to FireStorm/DAO because of customer feedback that they often use FireStorm/DAO for rapid prototyping.

Database synchronization works by automatically importing new tables, views, and columns, without losing modifications made to existing objects. This means that developers can easily keep their FireStorm/DAO project and generated code synchronized with an evolving database schema.

- **Full JSP Client Generation**

The JSP client generation feature in FireStorm/DAO was originally included as a simple test tool. However, it has turned out to be one of the most popular features. The JSP/WebApp code generation has been overhauled and now generates JSP/servlet code that uses model 2 MVC.

- **Tomcat Web Application Generation**

In response to customer demand, FireStorm/DAO 2.1 can generate Web applications for deployment onto Tomcat 4.x. The generated Web application contains JSP pages, servlet code, and a JDBC-based DAO tier.

- **Additional EJB Code Generation Support**

The EJB code generation has been overhauled in release 2.1 in response to customer feedback. Support for additional Application Servers has been added and there is enhanced control over how an EJB is generated.

- **BLOB and CLOB Support**

FireStorm/DAO 2.1 has improved support for BLOB and CLOB data types when generating JDBC code. By default, BLOB types are now automatically mapped to byte arrays and CLOB types are mapped to Strings. The implementation code for reading BLOB and CLOB columns is contained in a generated base class that can be customised if required.

- **New Graphical User Interface**

The new GUI has an enhanced look-and-feel and many new usability features.

# PRODUCT OVERVIEW

## FireStorm/DAO Product Editions

There are four editions of FireStorm/DAO.



### FireStorm/DAO Standard Edition

FireStorm/DAO 2.0 Standard Edition generates a high-performance DAO tier based on JDBC and SQL calls. The generated code can be called from standalone Java applications as well as enterprise J2EE applications. All common JDBC data types are supported including BLOB and CLOB types. Auto-increment columns and auto-generated sequences are also supported.



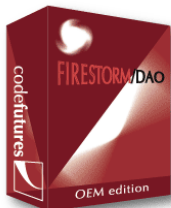
### FireStorm/DAO Enterprise Edition

FireStorm/DAO 2.0 Enterprise Edition offers the choice of generating a DAO tier using either JDBC, Java Data Objects (JDO), or Enterprise JavaBeans (EJB). In addition, the Enterprise Edition can also generate JSP Web applications for Apache Tomcat, JBoss, BEA WebLogic, and IBM WebSphere.



### FireStorm/DAO Architect Edition

FireStorm/DAO 2.0 Architect Edition offers all of the features of the Enterprise Edition (and Standard Edition) but also allows new custom code generation modules to be developed and integrated with the FireStorm/DAO Studio environment. The code generation modules are written in standard Java so there is no need to learn a proprietary code generation template language as with other solutions.



### FireStorm/DAO OEM Edition

FireStorm/DAO OEM Edition is specifically aimed at software product vendors. The functionality is the same as FireStorm/DAO Architect Edition, with additional, normally unavailable, internal technical documentation and access to source code as required. CodeFutures' commitment to flexible licensing arrangement and product packages ensures that ISVs of any size can be accommodated.

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