



For Immediate Release

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**Built-in Security and Concurrency Strengthen Application Generation Tool:  
Allow Rapid Development of Enterprise Applications without Hand-Coding  
*Iron Speed Designer Software Release Announced***

Mountain View, CA – March 27, 2003 – Software development tools maker Iron Speed released today an upgraded version of its popular application generation software product, Iron Speed Designer. The new release introduces new security and database concurrency features that are built-in to each generated application, allowing developers to generate full-featured n-tier web applications, even if they have no experience building .NET applications or writing SQL queries.

“As mission critical enterprise applications move to the web, developers must concern themselves with application security as well as demanding multi-user environments,” says Iron Speed Co-founder and Chairman Alan Fisher. “For application generation tools to be useful to corporate IT developers, the generated code must include all the components critical for enterprise class applications.

“The glamorous, career-boosting aspects of the application business logic are for developers to build by hand. For everything else – including hundreds of web pages, SQL statements, application class hierarchies, security, and all the transaction management code – there is Iron Speed Designer,” Fisher says.

Iron Speed Designer is the application generator for rapidly developing Microsoft .NET web applications. In just a few hours, Iron Speed Designer generates fully functional, feature-rich .NET applications, complete with a straightforward class hierarchy that allows for code extensions and preserves code modifications with every regeneration. Applications are generated in a standard 3-tier architecture preferred by most corporate developers. Shaving months off the typical development cycle, this highly automated approach allows developers to quickly generate a full-featured working application and then focus on the remaining aspects of the application that are unique.

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## Generating Application Security

Although most corporations take security precautions at the network level, the majority of application security is built into the application code itself. Iron Speed Designer automatically generates several important application security features including role-based access control, automatic sign-out, password storage and single sign-in using active directory.

- **Role-based access control:** End-user authentication (sign in) is generated as a standard feature, if enabled, and grants access to each page based on designated roles. Iron Speed Designer supports an unlimited number of user roles and individual users can possess multiple roles. Generated applications automatically authenticate users and determine their roles.
- **Automatic sign-out:** Users are automatically logged-out after a designated period of time to guard against identity theft when a user leaves their web browser open to the application. This is especially important for applications that connect between enterprises.
- **Password storage:** Highly sensitive user name and password data is stored directly in the application's existing database tables and not in any separate file that could be compromised.
- **Single sign-in using active directory:** Users of multiple applications will want a single sign-on feature, saving them from having to sign in to each individual application. Iron Speed Designer generates applications that are easily extended to add single sign-on using active directory and low overhead directory access protocol (LDAP).

## Generating Database Concurrency Handling

Concurrency handling determines how record updates are handled when two users attempt to update the same record in close proximity to each other. If both users are viewing the same record, and then make independent changes, the concurrency handling mechanism determines which user's data is updated in the record. Implementing concurrency handling is typically very tedious and must be applied carefully to nearly every transaction in an application.

Iron Speed Designer generates applications with "optimistic" concurrency handling for each transaction. When a record is about to be updated, it is locked for a split second just before the new changes are committed to the database. A check is made to determine if another user changed the record while the current user was editing the record. If not, the transaction is processed and committed to the database. However, if the record was recently modified, then the user is warned and given the opportunity to review the change before overwriting it.

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*Iron Speed Designer Generates*

- **Presentation Layer - a complete web-based user interface:**  
Sophisticated web-based user interface pages, including database-connected forms, tables and reports. Advanced features include reports with filtering and sorting, full-text search, navigation, data validation, and table pagination.
- **Application Layer - native .NET program code:**  
Easily extensible class hierarchy built on the .NET Framework base classes, as well as enterprise-class features such as role-based security.
- **Database Layer - all your SQL and transaction management:**  
All the SQL queries for data display and reporting as well as record insertion, modification and deletion. Advanced features include multi-table joins and a page-based transaction model.

## **Background on Iron Speed, Inc.**

Iron Speed has revolutionized web application development with powerful application generation tools that accelerate the development of enterprise-class web applications. Iron Speed Designer generates about 80% of an application's program code, allowing developers to focus on the remaining 20% of the application that is unique. Iron Speed recognizes that developing web applications is more complicated than traditional application development, and so provides application generation software for IT departments looking to take advantage of the flexibility and extensibility of web-based applications. Iron Speed executives are pioneers in web application development, having built enterprise and e-commerce systems for companies like Onsale (now Amazon) and Charles Schwab. The company is based in Mountain View, California and located online at <http://www.ironspeed.com>.

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**Reporter Note:** View the Iron Speed Designer Product Tour for a quick illustrated tour of how Iron Speed Designer generates web applications: [http://www.ironspeed.com/ProductTour/ptour\\_01.htm](http://www.ironspeed.com/ProductTour/ptour_01.htm).

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