



The U.S. Naval Safety Center (NSC) is dedicated to improving Fleet readiness by eliminating ALL preventable mishaps. The Center provides safety-related publications, training, tools, presentations, workshops, surveys and information to a wide range of military organizations and individuals, and collects and reports on safety and accident statistics.

In support of its mission, the NSC developed its Web-enabled Safety System (WSS), designed to track and report on mishaps and hazards occurring anywhere within the Department of the Navy. By accumulating and aggregating these data, the NSC expects to create baselines for future trend tracking, which will enable organizational units across the Department to measure—and continually improve—the effectiveness of safety programs.

The initial implementation of the solution was aimed at two of the most safety-critical activities common within the Department—diving and parachuting—with other activities to be added later. The solution would collect, store, report on, and enable analysis of accident, incident, and other safety-related events.

In designing the WSS Solution, the NSC's IT team wanted to leverage open source technologies as much as possible, both to minimize costs and ensure future flexibility as the Department's safety needs evolved. The production solution is written in Java, runs on JBoss Enterprise SOA middleware and the Google Web Toolkit JavaScript platform. The only long-term proprietary technology in use is the Oracle database engine, chosen to take advantage of a Department of the Navy site-wide agreement.

Development tools are open source as well. The team uses the Eclipse development environment, the Hudson continuous integration toolset, and the CVS source code repository. PMD, Checkstyle and FindBugs are all used to assure code quality, and anomalies are tracked with Bugzilla.

Early versions of the system depended on two other proprietary technologies for reporting functionality: the Informix database engine and the Jinfonet JReport reporting solution. But when Department of Defense (DoD) mandated the integration of all applications with its hardware token-based authentication routines, the team found it impossible to make the necessary changes to the closed, proprietary software solutions—and began seeking an open source, Java-based replacement.

## CASE STUDY

The team transitioned to Jaspersoft's open source JasperServer business intelligence solution about three years ago. JasperServer was easy to integrate with the DoD's authentication scheme, and its built-in role-based security uses the DoD-mandated authentication data to control end user access to individual reports and data.

The overall solution now provides comprehensive capture and tracking of all parachuting and diving mishaps, and the resulting baseline data are now used as an important measure of organizational safety. Initial reports have been developed for diving mishap data, and new reporting for parachuting mishap data will go live shortly. The team expects to embark on a data warehousing project soon, and will incorporate additional, open source extract-transform-load (ETL) and analytics solutions from Jaspersoft.

## About Jaspersoft

Jaspersoft provides the most flexible, cost effective and widely deployed Business Intelligence suite in the world, enabling better decision making through highly interactive, web-based reports, dashboards and analysis. Leveraging a commercial open source business model, Jaspersoft provides end-to-end BI capabilities at a fraction of the cost of other vendors. The BI suite includes pixel-perfect enterprise reporting, ad hoc query, dashboards, OLAP and in-memory analysis, and data integration. Jaspersoft is the only BI vendor that enables companies to adapt to the new, virtualized world by providing a complete spectrum of on-premise, multi-tenant SaaS and cloud-based deployment options for both embedded and standalone business intelligence. Unlike traditional BI vendors, Jaspersoft is built on a modern, light-weight, standards-based architecture and offers greater vendor independence thanks to its open source codebase. Unlike niche BI vendors, Jaspersoft represents a safe choice with tens of thousands of production deployments across a wide range of industries.

Jaspersoft's open source business intelligence software has more than 11 million product downloads worldwide, 160,000 production deployments in 100 countries and over 13,000 commercial customers. Its BI suite is advanced regularly by a development community of more than 150,000 registered members. For more information visit: [www.jaspersoft.com](http://www.jaspersoft.com) and [www.jasperforge.org](http://www.jasperforge.org).

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