

# PHONAK

Deploys Dynamic New Web Portal Using SpringSource dm Server

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## SPRINGSOURCE RESULTS

SpringSource dm Server delivers the following business results to Phonak and Namics:

- Modular Application Structure
- Better Development Team Organization
- Increased Developer Productivity
- Simultaneous Version Control
- Improved Memory Utilization

## TESTIMONIAL

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## Phonak

Phonak, a division of Sonova based near Zurich, Switzerland, is a global leader in the development and manufacture of digital hearing systems and related wireless communication systems. Using state-of-the-art technology, Phonak drives innovation and sets new industry benchmarks regarding miniaturization and performance.

Phonak also contracts with Namics, a Swiss consulting firm specializing in web application development. Namics helps Phonak develop cuttingedge applications to support its global business.

### Challenge

One of the latest projects Namics developed for Phonak is a B2B web portal which offers a product catalog and online ordering. The project was complicated because it required two separate versions of the same application, for two different company divisions.

Before using SpringSource dm Server, Namics faced challenges on complex projects of this nature. The developers had to be managed much more closely to ensure they followed guidelines. There was no simple, clean way to approach the project, especially in a case where multiple versions of the application had to be deployed. In a traditional Java environment, applications could not be developed in modules and development teams could not be easily divided into more productive specialized groups.

### Solution

On the Phonak web portal project, SpringSource partner Namics employed SpringSource dm Server, an open source, completely modular, OSGi-based Java application server designed to run enterprise Java applications and Spring-powered applications with more flexibility and reliability for the business-relevant backend services. dm Server is based on the new SpringSource Dynamic Module Kernel (dm-kernel), which provides a module-based backbone for the server, and also harnesses the power of Spring, Apache Tomcat and OSGi technologies.

“We are very happy with the dm Server technology from SpringSource,” says Sandro Ruch, Technical Architect and Partner, Namics. “This project has been a success for Namics and Phonak, because of dm Server.”

## Benefits

### SPRINGSOURCE DM SERVER DELIVERS THE FOLLOWING BUSINESS RESULTS TO PHONAK AND NAMICS:

#### Modular Application Structure

“SpringSource dm Server and the underlying OSGi technology provides the capability to split an application into modules much more easily than we could in the past,” explains Ruch. “This is a big advantage because we can organize the code into modules, and ensure those modules do not interfere with each other. The end result is cleaner code and a superior application structure.”

#### Better Development Team Organization

“In dm Server, with OSGi, we have more flexibility to separate modules into different projects for different developers,” Ruch says. “For us, it is important to divide the project into subprojects with dm Server, and divide the modules among the developers. It allows us to create a domain-oriented team structure with development and deployment units. It is easier to organize the modules and assign them to developers with clear responsibility. In the end, the development teams can be more productive because they are focusing on their areas of specialty.”

#### Simultaneous Version Control

SpringSource dm Server allows Phonak to run multiple versions of application modules in the same virtual machine. This means Phonak has the ability to serve different users, each with a dedicated version of the same application. For example, a version 1.0 of the application can be deployed for a certain use, and a version 2.0 of the same application with new functionality can be deployed concurrently for another use.

In this specific case, two different brands within Sonova required separate versions of the application. dm Server gave Namics the flexibility to maintain a module on a dedicated version for one division and an extended version of the same module for another division. Both versions of the application share the same infrastructure on dm Server and can be maintained and upgraded simultaneously, and yet they do not interfere with each other, and can be developed and deployed separately. In fact, dm Server enabled Phonak to put the first version of the application into production while the other version was still in development.

“With the ability to deploy more than one version of an application at a time in dm Server, the two versions can be seen as completely different, but the Java types are the same, only distinguished by a version number,” says Ruch. “With this capability, dm Server allows us to achieve a decoupling of the release cycle of common shared services, providing a consistent version of the services we depend on.”

#### Increased Developer Productivity

The dynamic flexibility of dm Server increases developer productivity for Namics and Phonak because applications and components can be installed, started, stopped, updated and uninstalled without causing downtime or requiring a system reboot – providing developers with more freedom to debug and make changes without disrupting the development cycle. In addition, OSGi enabled by dm Server reduces complexity and gives developers clear visibility into application functionality and well-defined services.

#### Improved Memory Utilization

SpringSource dm Server’s intelligent module loading produces minimal memory footprint and improved memory resource utilization.

“With dm Server, we don’t have to deploy the same version of a library more than once on a server,” Ruch says. “That saves memory in the case of multiple applications using the same library on the same server.”

## About SpringSource

SpringSource, a division of VMware, Inc., (NYSE: VMW) and the leader in Java application infrastructure and management, provides a complete suite of software products that accelerate the entire build, run, manage enterprise Java application lifecycle. SpringSource employs the open source leaders who created and drive innovation for Spring, the de facto standard programming model for enterprise Java applications. SpringSource also employs the Java and Web thought leaders within the Apache Tomcat, Apache HTTP Server, Hyperic, Groovy and Grails open source communities. Nearly half of the Global 2000, including many world’s leading retail, financial services, manufacturing, healthcare, technology and public sector clients are SpringSource customers. For more information visit: [www.springsource.com](http://www.springsource.com).



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