Challenge
Data Centers at present are being impacted by a number of issues as a result of rapid growth, and increasing demands from users. IT staff are expected to uphold and even increase service levels while maintaining infrastructure budgets.

Virtualization is a new solution being implemented at all levels of the technology stack to help address these challenges. The software improves utilization by enabling server and storage resources to be shared by multiple applications. It also creates a ‘gap’ between applications and infrastructure resources making it more difficult to assure application performance.

Solution
Aeturnum partnered with this software company to provide a comprehensive solution with advanced analytics and high performance functionalities for its virtual data center management application.

Aeturnum was involved in the successful completion of defect fixes in all modules of the initial version of the product.

In subsequent versions, Aeturnum’s engineers helped re-architecture the existing application using SOA (Service Oriented Architecture) and provided additional services such as Administration, User, License, Reporting and Scheduling while also integrating these new services into the application. Aeturnum used J2EE technologies for the development work and the stack consisted of Spring, Hibernate, JSF, JSP, Quartz, Jasper reports, ILOG, GraphViz, AJAX and Yahoo Widget Toolkit.

In the latest version of this application, Aeturnum’s primary focus is:

- Development and defect fixing of the application collection framework which is considered the heart of the product. This consists of statistical and configuration data collection from various network resources using Groovy and other Java based technologies.
- Porting the existing JSF presentation layer into Spring MVC to enhance the user experience.

Result
Aeturnum’s work has produced a number of benefits for this software provider including accelerating its time to market with important product enhancements and reducing its costs for internal development. Aeturnum has also delivered a number of significant product design improvements, including:

- A simpler, more modular product architecture that encapsulates complexities and is much easier to maintain.
- “QUARTZ”, an open-source job scheduling component, that provides users with the ability to receive custom scheduled reports for a given date/time period with a daily/weekly/monthly preference.
- The “ILOG” charting component that enables custom and intuitive graphical displays of statistical data, giving the data maximum value.

About Aeturnum
Aeturnum, founded in 2001, is a leading provider of enterprise application development services and solutions with offices in Westford, MA and an R & D center in Colombo, Sri Lanka. The company provides IT consulting, solutions and services, including systems integration, information systems outsourcing, software application development, maintenance and R & D services to major Fortune 500 and funded technology startup companies. Aeturnum partners with some of the leading companies in the IT industry including FAST Search, Microsoft, Netezza, Oracle, Pentaho and Sun Microsystems. More information is available at www.aeturnum.com.