

Solution Note

## Adding a New Application: Powerful Analysis and Predictive Capabilities for IT Managers

Today's high-powered businesses and organizations increasingly rely on newer and better applications to exploit the value data. Like all IT professionals, IT Managers are being asked to do more with less while also promoting better alignment of IT with the needs of the business. It has become incumbent upon them to ensure the smooth deployment of new applications that will perform as needed by the business entities requesting them. In order to do this, some important and challenging questions must be answered, including:

- Will the new application perform as expected in terms of response time and throughput?
- How will it affect other production applications?
- Will the new application scale with an increase in the number of users and an increase in database size?
- How much, if at all, should I increase the capacity of my servers? Should it be a cluster of servers, more CPUs per server, more and faster disks, more JVMs per server, or other changes?
- If I re-host applications on a new platform to decrease cost and complexity, what should the new configuration be?

**BEZVision™** is an automated management solution enabling IT Managers to deliver high performing, uninterrupted database services to the business at the lowest cost. It does this by measuring, managing and predicting performance, resource consumption, and usage of data by line of business and using a combination of automatic "As-Is"™ predictions and powerful "what if" capabilities.



**BEZVision** automatically profiles complex application and database processing by individual line-of business to understand data usage, resource consumption and workload response time and throughput. BEZVision notifies you of both current and future performance issues and provides a guided process to help identify, analyze and quickly resolve service-level issues.

## Powerful Predictive Capabilities that Yield Solid Results

Based on its core prediction technology, BEZVision combines performance management and capacity planning as core disciplines supporting the need to understand current and future data service delivery expectations for key lines-of-business. The BEZVision prediction engine provides powerful capabilities that look ahead to identify performance bottlenecks or service delivery breaches on the horizon. This information provides managers and technical staff with enough time to properly plan and compare alternatives to find the most cost-effective remedy.

When assessing the impact of adding a new application to the production system, BEZVision builds models of both the production servers and the new application running in a test or development environment. These models provide a detailed view of resource consumption, data usage, response time and throughput by individual line of business request or corresponding Key Business Indicator. The new application workload can be imported into the production model to see how the new application will run on production servers. At this point, managers can ask important “what if” questions regarding the performance impact of the new application, such as:

- How will the new application perform in the production environment?
- How will it affect the performance of other production applications (lines of business)?
- Will the current production environment have suitable capacity to absorb the expected growth in the new application? If not, what do I need to do?
- How will the new production environment run if I decide to re-host my applications on different servers to reduce cost and complexity?
- Are there tuning opportunities that will help maintain performance and help meet agreed upon service levels?

## A Solid Solution for Today and Tomorrow

BEZVision addresses immediate tactical problems and longer term strategic service management issues:



### ***Current: tactical, reactive use - Using Technology to solve immediate problems***

BEZVision profiles complex application and database processing to understand data usage, resource consumption and workload response time and throughput. BEZVision notifies you of both current, and future potential performance issues, and provides a guided process to help identify, and proactively resolve service-level problems quickly.

### ***Future: Proactive use - Using Technology to Manage IT***

BEZVision forecasts performance, resource utilization and data usage at an application workload level, and predicts when service levels for individual lines of business will not be met and business growth will be affected.

## Confidently Plan New Application Deployments

Pre-deployment testing of new applications in a small development or test environment provides some rough measurements about new application performance but production systems supporting other applications are generally significantly larger and

*IT management needs to be proactive and focus on results that matter to the business, such as, consistent service delivery. Solutions such as BEZ... are a big step in that direction."*

**Jasmine Noel of Ptak, Noel & Associates**

more complex. Even though a new application passes all of its pre-deployment functional, operational and performance tests, there is no guaranty that it will continue to perform well once it is placed into the mix of production applications running on production servers. By using BEZVision to analyze and predict what will happen to overall performance of the production environment when a new application is deployed, IT Managers are in the position to ensure a smooth implementation by accurately identifying performance tuning and capacity issues which will be need to be addressed prior to new application implementation. Setting proactive measures and realistic expectations reduces the risk of unpleasant surprises during deployment and implementation.

## Summary

BEZVision provides a powerful solution for adequately assessing the expected impact of new application performance and capacity needs which should be addressed prior to implementation. It also provides realistic expectations and minimizes the risk of surprises. Built-in automated functions, such as 'set and forget' monitoring and hands-free "As-Is" predictions minimize the time and effort required to build models and ask "what if" questions regarding the performance impact of adding the new application to the production server environment. With BEZVision, you can:

- Accurately profile the resource consumption and pattern of data accessing of the new application
- Accurately profile the resource consumption and pattern of data accessing of the current production servers
- Readily combine these profiles to assess the performance impact of the new application implementation on performance of all production applications
- Evaluate a host of "what if" questions, including predicting the impact of the workload growth and database size growth to pinpoint the system changes that will ensure ongoing delivery of acceptable performance
- Help align IT service delivery with the needs of the business

## About BEZ Systems

Since 1993, BEZ Systems has been offering innovative solutions that provide a line-of-business view of application performance, resource and data utilization for today and tomorrow. These solutions include performance tuning, database performance optimization and capacity recommendations allowing DBA Managers to accurately compare 'change and growth' alternatives and forecast future requirements. Future performance predictions are an invaluable component of justifying specific actions assuring that business objectives and performance goals can be met, thereby minimizing any shortfalls in service.

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