

## BMC<sup>®</sup> Performance Manager for Databases<sup>™</sup>



### Key Benefits

- > Allows users to proactively monitor and manage Oracle, DB2 UDB, Microsoft SQL Server, and Sybase environments
- > Ensures high performance and application availability through proactive monitoring and management of distributed servers and databases from a single console
- > Provides enhanced ability to detect stalled databases
- > Provides comprehensive log management
- > Integrates seamlessly with SmartDBA<sup>™</sup> Performance solution
- > Correlates information from multiple sources, providing availability, resource use, and performance tuning information
- > Provides response-time monitoring to enhance the DBA's understanding of performance levels being experienced by users

### BUSINESS CHALLENGE

With businesses expecting 24x7 availability and demanding superior performance, maintaining availability has become a great concern for IT enterprises. To ensure a business remains productive, all elements of the business infrastructure must achieve maximum availability. However, maintaining database availability is challenging and often impossible without proper monitoring and administrative tools.

### BMC SOFTWARE SOLUTION

BMC Software Performance Manager and SmartDBA solutions set the standard for cost-effective database management. BMC Performance Manager for Databases continually and consistently optimizes performance, simplifies administration, and assures recovery across all major distributed and mainframe database environments.

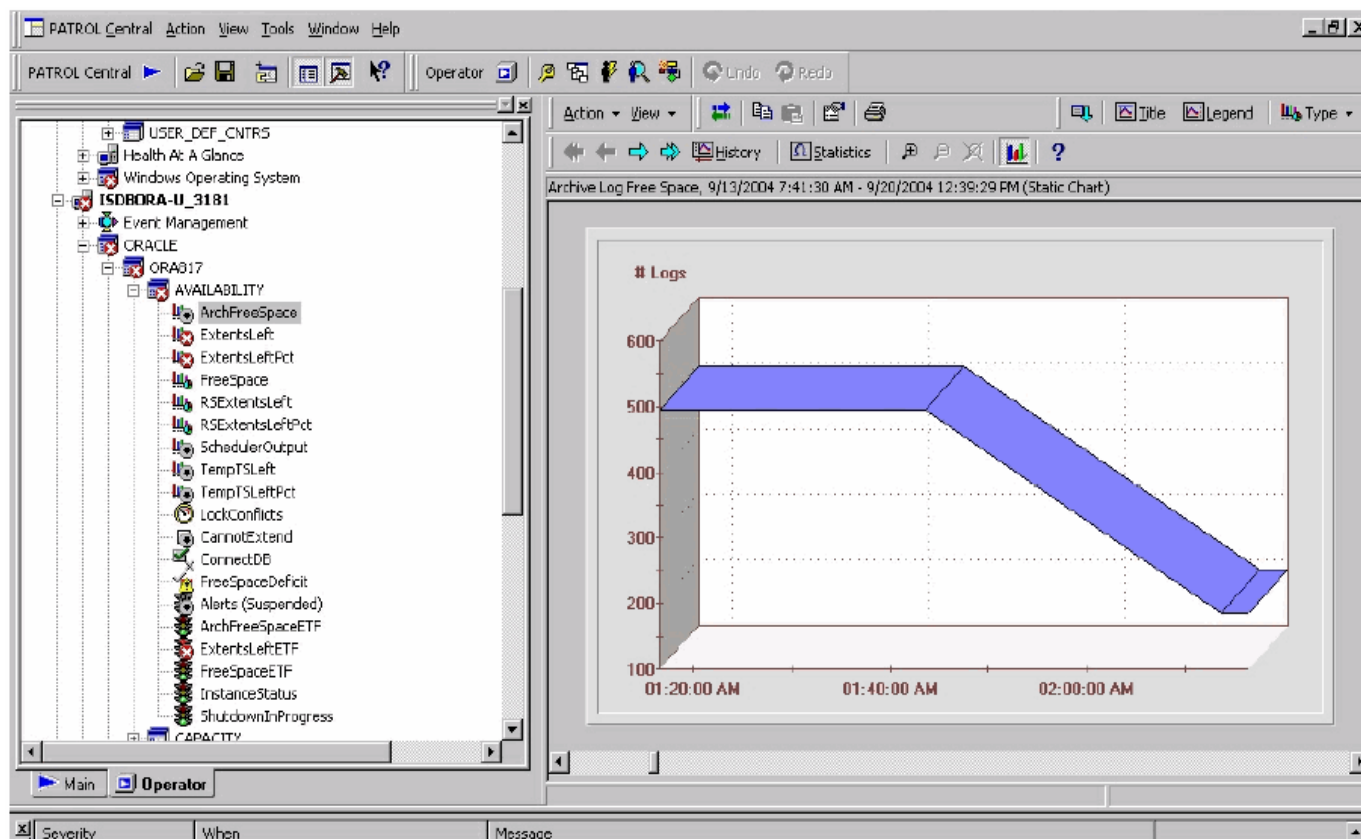
BMC Performance Manager for Databases provides proactive 24x7 monitoring. You can determine database status and navigate through data and graphs, quickly identifying and correcting performance issues. The product provides alerts and notifications, and can automatically run scripts to resolve issues *before* they become problems apparent to end users. BMC Performance Manager for Databases also helps isolate and proactively resolve problems while assisting in information analysis and root-cause diagnosis functionality that is necessary to maximize database availability.

### Centralized Monitoring

The entire Oracle, DB2 UDB, Sybase, and Microsoft SQL Server environment can be monitored and managed from a single console. Consoles are customized to the user, making it possible to monitor the entire enterprise or a subset of instances, depending on the needs of the individual user.

BMC Performance Manager for Databases enables monitoring of multiple database platforms, operating systems, and middleware and applications through the same console (with additional modules available separately). Through simple customization, users can select databases they want to monitor and receive notification when a problem occurs. The console provides a logical view of every instance on every server. By using mouse clicks to drill down into the logical view, it is easy to determine where a potential or actual problem exists and take steps to correct the problem.

If preferred, users can also use a simple menu to manage monitoring with BMC Performance Manager. Information gathered by BMC Performance Manager is displayed through individually customized consoles. Consoles can be both Windows-based and web-based. Since console customizations are centrally stored, individualized consoles follow a user from web console to Windows console and back again.



By collecting information about your database over time, BMC Performance Manager for Databases can provide a quick visual representation of various areas of your database, allowing you to understand the state of your database around the clock.

### Proactive Monitoring

Ensuring your database environment is up and running at all times can be a daunting task. BMC Performance Manager for Databases simplifies this aspect of your business by proactively determining if a problem might occur, or already has occurred. By providing an escalation of warnings and alarms, DBAs often have time to correct a problem *before* it occurs.

BMC Performance Manager for Databases monitors every aspect of database environments, including the following critical areas:

- Instance and server availability
- Database performance, including cross-server data contention
- Job management, including failed and overdue jobs

### 24x7 Problem Detection and Response

BMC Performance Manager for Databases provides 24x7 problem detection and response for your distributed database environment. By proactively monitoring configured database environments, BMC Performance Manager for

Databases detects when a parameter reaches a user-defined or default threshold, and issues a warning or an alarm to notify DBAs of the problem. By allowing users to set the alarm level at which they receive notification, users of BMC Performance Manager can easily define what aspects of the database environment might adversely affect business availability. By e-mail or pager, users can be notified that a warning or alarm has occurred.

BMC Performance Manager for Databases also provides capability for defining recovery actions that automatically respond to a warning or alarm by executing a pre-defined action against the database. This capability lets users rely on BMC Performance Manager to handle errors, whether mission-critical or minor, without user intervention.

### Historical Data Collection

BMC Performance Manager collects and stores information about the monitored environment. This information store is used to provide useful information through consoles, including extensive annotated data points that can be used for reports associated with problem recovery or other user-defined actions. These data points are accessible via the console, and allow the user to quickly retrieve more detailed, contextual data regarding parameter values, history, and alerts.

Name	Type	Object State	Aggregate State
ENVIRONMENT	Application Instance	OK	Critical
LOG	Application Instance	OK	Critical
USERS	Application Instance	OK	Warning
Space_Expert	Application Instance	OK	OK
AVAILABILITY	Application Instance	OK	Critical
CAPACITY	Application Instance	OK	OK
DB_LINKS	Application Instance	OK	OK
JOBS	Application Instance	OK	OK
MIS	Application Instance	OK	OK
NETWORK	Application Instance	OK	OK
PERFORMANCE	Application Instance	OK	OK
PCO	Application Instance	OK	OK
REPLICATION	Application Instance	OK	OK
SGA	Application Instance	OK	OK
TABLESPACES	Application Instance	OK	OK
SQLVIEWER	Application Instance	OK	OK
COLLECTORS	Application Instance	OK	OK

BMC Performance Manager for Databases provides an "at-a-glance" status of every aspect of your distributed database environment. By color-coding functional areas in red and yellow to indicate the level of severity of a problem, it is easy to determine where problems occur so they may be resolved as quickly as possible.

### Enterprise Reporting

Using information collected over time, BMC Performance Manager for Databases provides a large number of out-of-the-box reports. These reports provide information ranging from instance or transaction status to database storage. Reports can be generated immediately or scheduled to run at specific times.

BMC Performance Manager for Databases also allows you to run custom scripts, providing maximum level of reporting flexibility. By using Base Reporting for BMC Performance Manager, it is possible to combine data from various locations to generate enterprise-level reports.

### Integrated Database Management with SmartDBA

SmartDBA Performance solutions provide complete applications for managing and assuring database performance.

Built on BMC Software's SmartDBA line of database management products, these solutions provide the DBA with a powerful, web-based set of tools to detect, diagnose, and correct database performance problems. These solution suites proactively monitor database and application performance, analyze and tune SQL, optimize space utilization, and provide a consistent performance process across the enterprise.

Only BMC Software offers these industry-leading solutions that use advanced technologies to proactively monitor, alert, diagnose, and fix database performance issues.

The SmartDBA performance packages are as follows:

**SmartDBA Performance Monitoring.** Available for Microsoft SQL Server, Sybase, DB2 UDB, and Sybase

- > BMC Performance Manager for Databases
- > SmartDBA Cockpit™ administration tool
- > DBXray™ real-time diagnostic and visualization utility, which delivers the most complete view of a database in the industry

**SmartDBA Space Management for Oracle.** SmartDBA Space Management builds on the SmartDBA Performance Monitoring base with the addition of BMC Software's Space Expert™ for Oracle. This solution seamlessly snaps into our web-based environment, delivering an effective solution for optimizing space utilization while enhancing database and application performance.

### SmartDBA SQL Analysis and Tuning for Oracle.

SmartDBA SQL Analysis and Tuning couples the non-intrusive high-speed data collection of SQLExplorer™ for SQL analysis and automated tuning with Performance Monitoring base to deliver the most advanced comprehensive SQL tuning solution in the industry.

**SmartDBA Performance Management for Oracle and DB2 UDB.** SmartDBA Performance Management provides a complete enterprise-wide solution for monitoring Oracle databases and taking proactive steps for space management and SQL analysis and tuning.

- > SQL-Explorer provides expert SQL tuning and index analyzing capabilities.
- > Space Expert provides online read/write reorganization capability as well as web-based.
- > Space analysis for simple and intuitive find-and-fix problem identification and resolution.
- > DBXray, an advanced, real-time, web-based diagnostic and visualization utility, allows DBAs to isolate and resolve database performance issues.



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### Helping You Maintain Advantage

BMC Software Education Services offers a strategic investment for your business, maximizing the value for your employees and Business Service Management initiatives. Education ensures successful product implementation, promoting mastery of all product capabilities and highest productivity with your BMC Software solutions.

To explore our education offerings, visit our web page at <http://www.bmc.com/bmceducation>, or contact BMC Software Education Services by telephone or e-mail:

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### About BMC Software

BMC Software, Inc. [NYSE:BMC], is a leading provider of enterprise management solutions that empower companies to manage their IT infrastructure from a business perspective. Delivering Business Service Management, BMC Software solutions span enterprise systems, applications, databases, and service management. Founded in 1980, BMC Software has offices worldwide and fiscal 2004 revenues of more than \$1.4 billion. For more information about BMC Software, visit [www.bmc.com](http://www.bmc.com).



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