BMC MainView

Simplify complex IBM® System z® environments. BMC MainView provides proactive, resource-efficient system management and automation solutions for z/OS® systems and subsystems to help you reduce MIPs usage, improve availability, optimize application performance, and integrate with enterprise-wide event management processes.

Available products

BMC MainView includes:

- CMF MONITOR
- BMC MainView AutoOPERATOR
- BMC MainView Batch Optimizer
- BMC MainView Console Management for zEnterprise
- BMC MainView for CICS
- BMC MainView for DB2
- BMC MainView for IMS Online
- BMC MainView for Linux - Servers
- BMC MainView for Network Management
- BMC MainView for UNIX System Services
- BMC MainView for WebSphere Application Server
- BMC MainView for WebSphere MQ
- BMC MainView for z/OS
- BMC MainView Storage Resource Management
- BMC MainView Transaction Analyzer

Business challenge

Companies are dependent on IT to provide and maintain application availability and performance. The lack of either application availability or performance impacts customer satisfaction — and could impact your company’s bottom line. The complexity of applications continues to change based on user demands for data access, such as new mobile devices and via the cloud, which requires that personal data be accessible anytime, anywhere. For the mainframe, where most business data is stored, any change in workload volume creates an additional layer of complexity. Constant changes to application programs or the IT infrastructure, such as new z/OS, DB2®, CICS®, IMS™, and WebSphere® MQ releases, create new challenges for managing the business and the supporting IT infrastructure.

As the complexity of your System Z environment increases, it is becoming more difficult — if not impossible — to maintain effective monitoring solutions. Understanding which application is using how much of a particular IT resource throughout the business cycle is critical to identifying potential problems. Any changes in workload, resource usages, and applications directly impact the metrics used to monitor the IT infrastructure.

Your IT organization must now go beyond just monitoring to provide dynamic proactive management. You need a solution that will not only determine what metrics to monitor, but also understand what the valid thresholds are for the metrics based on your business requirements. Although the process for collecting, analyzing, and defining thresholds has historically been a manual one (based on a static subset of specific metrics), today’s business demands change based on time of day or seasonality. You need a solution that will dynamically create thresholds based on that data.

The BMC solution

BMC MainView addresses the complex performance management issues faced by mainframe management and technical staff. It provides monitoring, automation, and storage solutions that are easy to use and that require less mainframe expertise than other tools. BMC MainView solutions, which are efficiently designed to reduce resource requirements by sharing data collectors where applicable, use a common infrastructure and also offload processing to specialty zIIPs processors to reduce the software and hardware costs from using General Purpose processors.

BMC MainView provides best-practice metrics, as well as analytics capabilities, to create dynamic thresholds based on your data. This provides accurate detection of performance or availability issues with a common interface that delivers the same look and feel across all BMC MainView solutions, thus simplifying the end-user learning curve. The tightly integrated BMC MainView solutions share the following functionality:

- **Single System Image (SSI)** — Display collected data, from multiple sources, in a single view as if it were from a single system. BMC MainView displays events and alerts for all systems and subsystems you define, including sysplex, parallel sysplex, and multiple parallel sysplex environments — without the need for distributed systems infrastructure.

- **Threshold Advisor** — Use built-in analytics to recommend and maintain critical metric thresholds. BMC MainView Threshold Advisor analyzes system and application data, and then makes recommendations on setting thresholds throughout the business cycle. Every system and subsystem is analyzed to determine the normal usage of system resources driven by the different applications. Application characteristics are analyzed — and thresholds are set automatically — so the impact on customer response times is quickly detected. BMC MainView Threshold Advisor displays information in an easy-to-understand format and provides the ability to test the new threshold across multiple sample data to determine if any events would have been generated.

- **Dynamic Thresholds** — Automatically load and manage when and where thresholds are changed. Dynamic thresholds automatically update best-practice metric thresholds for the system infrastructure across sysplex and
business application components.

» **Alarm Manager** — Gain exception monitoring capabilities through contextual analysis and persistent checking. BMC MainView Alarm Manager checks for performance spikes or for persistent performance issues over user-defined periods of time, using both static and dynamic thresholds. For example, it generates and displays events that can create an MVS console or subsystem message and that can trigger an action for quick problem resolution. The message contains a hyperlink back to the BMC MainView solution that generated the event. Alarm Manager takes advantage of SSI so you can display on a single view all events for all BMC MainView solutions.

» **Data Views** — Collect system performance information as data elements in a record. Each record contains real-time, interval, and session data, which also is written to online history files. Data elements are arranged into views where you can control the display of fields; create or change graphs of view data; create, change, or delete hyperlinks; set keyword and positional parameters; set or remove data threshold conditions for a field; change the color in which data appears when it meets a specific condition; substitute text for data that meets a specific condition; and create a summary view.

» **Navigational Ease** — Easily work across all BMC MainView solutions without backing out of what you are doing. Transfer from point to point anywhere within BMC MainView — without a separate product interface and technology layer. Hyperlink fields link to additional data for greater detail about potential problems, seamlessly crossing product, subsystem, system, and sysplex boundaries. You can easily define your own hyperlinks and menu views. All BMC MainView solutions offer a complete command-line interface.

» **Historical Data** — Easily display historical data, so you can re-create the operating environment as it existed yesterday, last week, or last month. Then, you can compare historical data to current data; display multiple intervals of data that span hours, days, or weeks; perform trending analysis; summarize intervals of data; review past performance for any timeframe; and collect and report information to assist in capacity planning.

» **Batch Reports** — Use the data collected by BMC MainView to produce historical performance reports by submitting batch jobs. If you want to submit a job each day to report on key performance elements for the previous day, you can do so without having to change the JCL.

» **Management by Application** — Create a composite picture of application performance as compared to expected service so you can quickly identify system performance fluctuations that might affect business-critical processes.

» **BMC MainView Explorer** — Manage your z/OS monitoring and automation environments from a Web browser, using a common GUI that does not require any off-platform software.

» **Event Management** — Monitor all BMC MainView events from a single point of control. You can click on the message and BMC MainView will automatically transfer to the right system and subsystem to display detailed information (with all filters applied) to quickly identify the potential issue. No off-platform software is required.

» **Console Management** — Reduce the cost and time needed to manage the multiple consoles across your zEnterprise environments. Scroll back and find critical message across any number of consoles.

**Business Service Management (BSM)**

BSM from BMC enables you to automate IT processes, improve decision-making and orchestrate workflow to manage the hybrid data center — including cloud, virtual, distributed, and mainframe resources. BSM provides a comprehensive and unified methodology that simultaneously reduces IT costs, improves quality of service, manages risk, and provides transparency so that IT can operate more efficiently. BMC MainView supports BSM with the following solutions:

» **BMC Atrium Discovery for z/OS** automatically discovers mainframe assets and their relationships, working with the BMC Atrium Discovery and Mapping solution.

» **BMC Event Management System Adaptor for z/OS** enables out-of-the-box integration between mainframe events, including BMC MainView events, and the BMC ProactiveNet Performance Management solution. The intelligence of the BMC MainView event is retained, so when the event is shown within the Systems Impact or Event Impact display in BMC ProactiveNet, the user can click on the system object or event and transfer back to the correct systems and subsystem in BMC MainView (with all filters applied to quickly identify and resolve the potential issue).

For more information

To learn more, please visit [www.bmc.com/mainview](http://www.bmc.com/mainview).

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Business runs better when IT runs at its best. That’s why more than 20,000 IT organizations – from the Global 100 to the smallest businesses – in over 120 countries rely on BMC Software (NASDAQ: BMC) to manage their business services and applications across distributed, mainframe, virtual and cloud environments. With the leading Business Service Management platform, Cloud Management, and the industry’s broadest choice of IT management solutions, BMC helps customers cut costs, reduce risk and achieve business objectives. For the four fiscal quarters ended June 30, 2012, BMC revenue was approximately $2.2 billion.

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