

MAINVIEW® for IMS

Key features

- Saves investment costs and simplifies systems management with a single tool to manage any implementation of IMS — from traditional configurations to sophisticated IMS Parallel Sysplex clusters
- Provides proactive control by quickly and easily identifying and resolving IMS systems management problems before they impact end-user service levels
- Delivers IMS monitoring, performance tuning, reporting, cost allocation, and automation
- Provides a clear path to show details about performance issues, systems, and workloads
- Reduces the risk of costly outages
- Is easy to install, maintain, and operate

Business challenge

IMS, the world's fastest and most popular database and transaction management system, has evolved into the open distributed client/server and object-oriented environment that today encompasses Web technologies. Processing a common workload in this multi-system environment presents unique challenges in systems management and performance monitoring.

The IMS environment has become increasingly complex. Given the challenges facing the management and monitoring of IMS workloads, organizations require a solution to gain awareness of all IMS activity, regardless of the IMS configuration or the number of systems involved.

The enterprise server has evolved into the backbone of eBusiness. IMS drives not only legacy processing, but also client/server applications and Web technologies. Globalization and eBusiness demand continuous availability.

New technologies, coupled with growing data and the need for continuous availability, increase the complexity of managing IMS applications and systems. In this highly complex environment, you

need a simple way to monitor, measure, and manage IMS performance and utilization. You need to prevent problems before they affect users.

BMC Software solution

The MAINVIEW for IMS product line from BMC Software offers the number one solution for managing and monitoring IMS workloads. This solution is based on proven technology of the MAINVIEW product family and can be deployed rapidly. It satisfies the expanding IMS systems management requirements without increasing its complexity.

MAINVIEW simplifies IMS management by providing the same interface for managing traditional implementations and sophisticated Parallel Sysplex (IMSplex) data-sharing groups. It helps to identify and correct IMS system problems easily and effectively. Its flexibility, ease of use, ease of installation, maintainability, and operation make MAINVIEW attractive to all levels of IT support while reducing the

demands on a highly skilled technical force. The MAINVIEW for IMS product line provides two products for all of your managing and monitoring needs: MAINVIEW for IMS Online and MAINVIEW for IMS Offline.

Key functions and benefits

- Manages IMS workloads
- Detects degradation instantly
- Determines exceptions immediately
- Quickly uncovers causes of IMS performance problems
- Achieves rapid problem resolution with integrated action services
- Creates detailed performance and transaction history
- Traces applications in detail
- Analyzes performance trends and recovers costs
- Delivers immediate value
- Uncovers Internet and MQSeries activities
- Provides rapid installation
- Builds on the power of MAINVIEW

MAINVIEW for IMS Online

The MAINVIEW for IMS Online product provides IMS workload management, instant degradation detection, immediate exceptions determination, and rapid problem resolution with integrated action series. MAINVIEW for IMS Online also provides integrated automation when working with AutoOPERATOR for IMS.

IMS workload management

- Performs constant surveillance of the IMS environment by continuously monitoring the usage and availability of IMS resources and the activities of workloads
- Issues warnings as soon as a problem is detected
- Offers an easy-to-use solution with full analysis capabilities to rapidly

determine the cause of poor performance or abnormal circumstances

- Provides the facilities to measure workload performance and database contention across IMS systems and IMSplexes

Detects degradation instantly

- Offers highly efficient monitoring technology to continuously sample workload activity and resource utilization
- Detects any degradation in workload throughput or erratic use of resources
- Shows details about elements of transaction code response time
- Instantly identifies delay factors attributed to queuing, resource constraints or execution delays in a specific IMS area or across an IMSplex environment
- Pinpoints scheduling constraints, resource contentions, and design issues that hinder transaction performance
- Offers options to drill down to extensive levels of detail in each problem area

Determines exceptions immediately

- Uses a powerful, integrated exception-generation engine to deliver access to performance information provided by MAINVIEW
- Evaluates multiple conditions to determine if true exceptions exist or are emerging
- Provides alarm messages with powerful point-and-shoot capabilities to automatically help IT staff navigate to a detailed view of the conditions causing specific problems
- Preserves information surrounding an exception for subsequent analysis
- Presents extensive data to AutoOPERATOR as a set of variables,

extending the power of performance automation

Achieves rapid problem resolution with integrated action services

- Empowers authorized users to perform dynamic tuning functions
- Queuing problems caused by insufficient message regions can be resolved with a simple line command assigning the class to an idle region
- Using the single system image capabilities for automating messages with AutoOPERATOR, a single line command can invoke actions to be performed against one or multiple IMS systems. An example of this command is to "Stop this transaction across all members of a data-sharing group."

Obtain detailed performance and transaction history

In an IMS environment, where the difference between good and poor performance is measured in tenths of a second or less, it is not always easy to determine user transaction problems in real-time. MAINVIEW for IMS:

- Uses sampling techniques combined with true measurements of transaction response times to depict an accurate reflection of workload profiles
- Provides extensive details of each transaction that has been completed, which can be retained and recalled online
- Presents the vast wealth of IMS activity information in real-time
- Simplifies obtaining historical information by issuing a command to change the display time frame from the current time to a designated point in history

- Enables the use of information by multiple users with little additional overhead

Trace applications easily

- Captures summary statistics of the execution of every transaction processed
- Filters, captures, and identifies transactions that do not match expectations
- Offers detailed tracing capabilities to help debug complex application performance problems associated with the execution of particular transactions
- Provides abundant information in chronological order on each type of call to DL/I, DB2, or MQSeries
- Includes details such as call elapsed time, return codes, and I/O information

Automation with AutoOPERATOR for IMS

The AutoOPERATOR product provides the automated, proactive edge to detect situations as they emerge and the ability to determine their cause before they become significant problems. By exploiting the synergy with AutoOPERATOR for IMS, reaction to events can be performed reliably and instantaneously, eliminating costly outages.

The powerful AutoOPERATOR Rules Processor responds to messages received from IMS and exception conditions detected by MAINVIEW for IMS.

- Rules can issue commands directly to IMS or execute REXX EXECs to carry out actions and conduct further analysis
- Automation has full access to the data available from MAINVIEW

- Drives other MAINVIEW functions, such as starting a trace or modifying monitor attributes

MAINVIEW for IMS Offline

The MAINVIEW for IMS Offline product provides extensive transaction level reporting and analysis capabilities.

These reporting features can be used for cost recovery by providing a usage based method for allocating costs.

Analyzing Performance and Trends

- Uses the unique information created by the MAINVIEW for IMS Event Collector in combination with IMS log records to generate comprehensive response time and resource utilization analysis reports.
- Provides extensive reports on user and system activity and database performance
- Provides reports to verify whether service level agreements are being met and to understand long-term trends and changes in overall behavioral patterns of the IMS system
- Allows operations and systems programming departments to understand and maintain the balance between the volume of work and the capacity to process it

Cost Recovery

- Uses the transaction accountant to exploit the detailed event collector information to recover the costs of IMS usage
- Delivers a billing facility to charge customers precisely for the services they have used
- Charge-back structure is user customizable

MAINVIEW for IMS delivers immediate value

- Single solution—Manages traditional and Parallel Sysplex environments
- Unparalleled integration—Is integrated with MAINVIEW for MVS, DB2, CICS, IP, VTAM, Websphere, MQ Series, and AutoOPERATOR, using a single interface
- Extensive detail—Abundant information on all IMS resources and activity
- Unprecedented tracing—Provides information on every call, return code, and timing
- Advanced automation—Reacts to events when they occur and examines performance data
- Alarm management—Evaluates multiple criteria before raising an alarm
- Database performance—Offers unique views for monitoring database activity and response times
- Delay avoidance—Decompresses performance pictures to identify areas to conduct analysis
- Cross-reference—Identifies the relationship between transactions, programs, and databases
- Dynamic tuning—Modifies the status of displayed IMS objects

Uncovers Internet and MQSeries activity

- Identifies the status and details of OTMA services and clients
- Determines which clients are associated with each IMS server and which clients and servers are ready to send and receive transaction messages

Simplifies the look and feel of IMS with MAINVIEW Explorer

- MAINVIEW Explorer provides complete access to IMS and other MAINVIEW products via a Web browser from any desktop

- Uses charts, active status icons, trees, and other graphical displays to show non-technical personnel what is happening to their OS/390 systems in terms that are easily understood
- Shields users from the complexity of OS/390 by plugging directly into the MAINVIEW databus, performing the complicated analysis for them and by providing direction on any actions that should be taken
- Contains a Web-ready GUI that gives a wide range of users the ability to see performance-related information and make informed decisions about OS/390 systems, subsystems, transactions, and workloads
- Allows customers to extract information from their OS/390 environment and bring it to the desktop, freeing them from the limitations of OS/390 manipulation and reporting capabilities

Provides rapid installation and security

- Installs quickly with the BMC Software installation mechanism to deliver a complete pre-built SMP/E environment and simple panel-driven customization
- Installation and customization to be completed within a few hours
- Provides views that can be customized and tailored to suit individual site requirements
- Offers sample automated solutions to common availability problems for out-of-the-box deployment
- Allows views, services, and commands to be fully secured through easy-to-administer internal product security features or through an external security manager such as RACF or CA-ACF2

Builds on the power of MAINVIEW

Industry-leading customers in all major markets worldwide have used the MAINVIEW solution to manage their IMS systems. MAINVIEW for IMS is part of the MAINVIEW product family, which offers closely integrated solutions and advanced functionality for monitoring, managing and automating traditional and Parallel Sysplex environments.

About BMC Software

BMC Software, Inc. [NYSE: BMC], is the leading provider of enterprise management solutions. The company focuses on Assuring Business Availability® for its customers by helping them proactively improve service, reduce costs and increase value to their business. BMC Software solutions span enterprise systems, applications and databases. Founded in 1980, BMC Software has offices worldwide and is a member of the S&P 500, with fiscal year 2002 revenues of approximately \$1.3 billion. Visit <http://www.bmc.com> to learn more.

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