# BMC CONTROL-M

AUTOMATE AND INTEGRATE YOUR BATCH AND
ONLINE PROCESSES ACROSS THE ENTERPRISE.

**bmc**software

# DRIVE

### DRIVE YOUR BUSINESS WITH ENTERPRISE SCHEDULING.

BMC® CONTROL-M is a best-of-breed enterprise scheduling solution, allowing you to automate and integrate batch processes that support the bottom line across multiple platforms and applications.

## SCHEDULING IS THE ENGINE THAT DRIVES YOUR BUSINESS

To meet your business objectives, you need to employ a reliable, scalable workload automation solution capable of effectively monitoring, managing, and automating your batch processing environment. This is particularly important considering that batch data processing accounts for more than 50 percent of all critical business data processing.

Here are some of the critical factors that should be considered in evaluating your enterprise scheduling environment:

> With disparate systems being deployed by enterprises worldwide, the need to have a heterogeneous, cross-platform job scheduling solution has increased dramatically.

> Almost 70 percent of an enterprise's integration requirement is to provide batch integration between packages.

> Job schedulers are being used in business process automation to streamline and simplify the workload, including straight-through processing and batch application integration projects.

> The concept of Service Oriented Architecture will become critical — especially with enabling batch workloads as a Web service.

> The volume and complexity of workload automation requirements has skyrocketed, thanks to an influx of applications, architectures, Web-based transactions (each one averaging more than 10 batch processes), and an increase in transactions that cross multiple applications, platforms, and companies.

In short, batch scheduling not only facilitates applications and transactions, but it's also an integral, complicated, and vital part of every IT environment.

## BMC CONTROL-M IS THE BEST ENTERPRISE SCHEDULING SOLUTION AVAILABLE

More than 2,000 organizations have installed BMC® CONTROL-M, the vast majority of which replaced an existing scheduling tool. By reducing the overall complexity of enterprise scheduling and increasing productivity through greater automation, BMC CONTROL-M helped these customers:

> Reduce the costs of IT and business operations

> Increase the quality of services being delivered

> Reduce time-to-recovery by implementing a consistent methodology

> Increase revenue potential by optimizing customer service

> Avoid outages to business-critical systems

From a single point of management, BMC CONTROL-M provides workload automation and scheduling control over multiple platforms and applications across the enterprise. This solution maximizes automation by providing cross-application and cross-platform scheduling capabilities, such as job dependencies, workload balancing, management by exception, and status-based job execution. BMC CONTROL-M prevents scheduling problems from developing into business problems.

The solution's proven success record maximizes data center hardware and software investments over multiple platforms, merging new and traditional technologies to effectively manage heterogeneous environments.

BMC CONTROL-M supports more than 20 platforms, including Unix, Microsoft Windows, z/OS, Linux, AS/400, Tandem, Unisys 2200, and many others.

"BMC CONTROL-M gave us a one-stop shop for running any scheduled software. We now have a tool that is centralized, scalable, and efficient. We no longer have to pay licensing fees on two products."

Todd Melville
ITS Project Manager
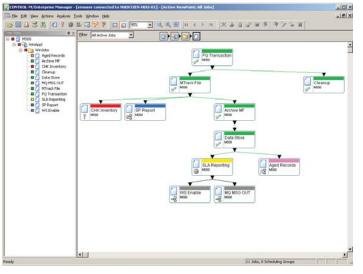HBF Health Funds, Inc.

## GET UNMATCHED SCALABILITY AND FLEXIBILITY

**BMC CONTROL-M:**

> Automates the details of production management

> Minimizes manual intervention in the production process

> Reduces manual errors and costs, streamlining the production flow

> Simplifies production management through user-friendly capabilities

### Manage Everything From a Single Focal Point of Control

BMC CONTROL-M's consolidated active environment furnishes a real-time graphical view of all connected systems and platforms across the enterprise. The BMC® CONTROL-M/Enterprise Manager provides a focal point of control for managing and automating complex cross-platform environments, ensuring that production problems are detected and solved through a consistent platform-independent management tool. This common interface also reduces the learning curve, allowing fast implementation.

BMC CONTROL-M works in both centralized and distributed environments. It delivers maximum scalability and flexibility, regardless of hardware configuration or physical layout. The reliability designed into BMC CONTROL-M means that even in the event of a communication failure, data integrity is ensured and workload interruptions are minimized. BMC CONTROL-M is effectively running production environments as small as a few hundred jobs per day and as large as hundreds of thousands of jobs per day.

BMC CONTROL-M supports both change and growth. Whether you are running 200 jobs or one million jobs — for both mainframe and distributed systems alike — BMC CONTROL-M leverages a single architecture. As evidence of the product's ability to accommodate constantly changing technologies, consider that the average customer has had BMC CONTROL-M for 10 years.



BMC CONTROL-M/Enterprise Manager GUI

## FIND AND FIX PROBLEMS USING MANAGEMENT BY EXCEPTION

### Find and Focus Only on the Problem Areas

A user-notification facility detects exception situations immediately and displays them in an alert window. Color differentiation allows users to view both the location and severity of a problem at a glance. All facets of the abnormality can be handled directly through drill-down menus. And, since exception management is automatic, personnel are free to perform other duties during production runs. BMC CONTROL-M alerts also can be routed to BMC Performance Manager, BMC Remedy, HP OpenView, Tivoli, or any other device that can handle SNMP or SMTP transmissions.

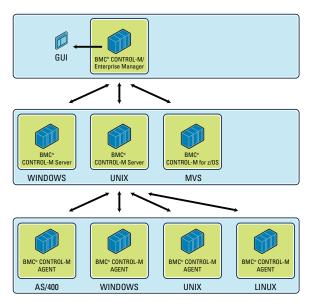### Gain Extensive Integration with Standard Applications

BMC CONTROL-M includes interface options with numerous third-party products and applications, including ERP applications such as SAP R/3, SAP BW, Oracle Applications, PeopleSoft, and more. Tight integration also is available for BMC Performance Manager and BMC Remedy, as well as other management frameworks and applications such as Tivoli and HP OpenView, Vantive, and Info/Management.

BMC CONTROL-M was developed with a rich set of functions, many of them evolving over time in response to the specific business needs of customers. With its broad variety of features, BMC CONTROL-M often is installed as a replacement solution for other vendors' scheduling products — the capabilities of which typically are limited.

## BMC CONTROL-M ARCHITECTURE

The BMC® CONTROL-M/Enterprise Manager is the focal point that brings these independent schedulers together. The BMC CONTROL-M/Enterprise Manager provides the conduit for cross-platform dependencies, a common view through an all-encompassing GUI, a single mechanism for scheduling on any platform, and central alert monitoring — all with the ability to drill down to a problem job.

Each BMC CONTROL-M instance involves either a server with one or more agents or a single physical scheduler with database and processes in one logical unit. The BMC CONTROL-M/Enterprise Manager communicates through gateways with the BMC CONTROL-M instances to provide the required services.



BMC CONTROL-M High-Level Architecture

## BMC CONTROL-M INTEGRATES WITH YOUR APPLICATIONS

### Smoothly Integrate Legacy and ERP Applications

Each of your ERP applications can submit and monitor batch jobs within its own environment. However, with very limited scheduling power and minimal integration between the processes that occur within these applications and those that happen in other applications, they are vulnerable to manual errors, processing delays, and work quality degradation. BMC CONTROL-M provides a completely integrated scheduling environment that includes all your legacy applications and your ERP application, whether it is SAP, Oracle Applications, PeopleSoft, or a homegrown or Web-based application.

BMC CONTROL-M offers specialized application support through its application-oriented job definition screens. These screens significantly improve the user experience, minimizing learning curves, training costs, and human error by maintaining the same look, feel, and terminology used in each job definition process. BMC CONTROL-M's specialized application module provides bi-directional communication with your application for quick and easy job definition and management.

### Integrate all Your SAP Instances With a Single, Comprehensive Solution

The BMC CONTROL-M module for SAP provides a complete and natural integration between BMC CONTROL-M and your entire SAP environment. Using the BMC® CONTROL-M for SAP, you can:

> Define and schedule new SAP jobs using the BMC CONTROL-M GUI

> Schedule existing SAP jobs

> Monitor jobs already running in SAP

BMC CONTROL-M adds many scheduling capabilities to the SAP environment:

> Provides a central management GUI and focal point of control

> Creates complex dependencies

> Manages resources

> Triggers external events

> Intercepts ad hoc (and other) jobs and applies pre-defined logic, such as workload balancing, etc.

> Pro-actively manages data archiving (workload balancing for DELETE jobs and STORE jobs)

> Automatically detects SAP parent-child (spawned) jobs and associates "child" jobs with their parent; monitors child jobs as part of the entire BMC CONTROL-M environment

> Adds additional capabilities for SAP Business Warehouse scheduling, including: seamless integration with BW and non-BW systems, scheduling of BW InfoPackages, and BW Process Chains

BMC CONTROL-M for SAP is both a "Powered by SAP NetWeaver" solution and "Certified for SAP NetWeaver" solution.

## BMC CONTROL-M PROVIDES SECURED FILE TRANSFER MANAGEMENT CAPABILITIES

File transfer activities are central to your business and have become a key building block in today's IT infrastructure. These transfers must be monitored and managed as an integral part of batch business processes through the enterprise scheduling solution. BMC CONTROL-M's module for Advanced File Transfer provides capabilities to:

> Define file transfers through an intuitive GUI using specialized job definition forms, enabling faster and errorless file transfer definitions

> Monitor and manage files in transfer, including compression, encryption, and checkpoint/restart capabilities

BMC CONTROL-M for Advanced File Transfer supports FTP, FTP over SSL/TLS, and SFTP/SSH.

## BMC CONTROL-M/FORECAST

### Predict Scheduling Problems and Prevent Business Outages

BMC® CONTROL-M/Forecast provides the definitive answers to scheduling questions, which might include:

> "How will my enterprisewide batch flow look on the 21st of next month?"

> "What is the expected batch workload on my main file server this Wednesday, in the 14:00 – 17:00 time window?"

> "Which jobs belonging to my HR application are scheduled to run on my offshore site next Saturday?"

> "Which scheduled jobs are impacted as a result of a four-hour shutdown of my backup machine during the upcoming weekend?"

### BMC CONTROL-M/Forecast:

> Simulates the job flow for a given future date

> Provides a visual calendar of the dates when the jobs are to be scheduled

> Provides an enterprisewide view and extensive reporting on trend analysis and workload balancing



BMC CONTROL-M Advanced File Transfer

## AVOID COSTLY OUTAGES BY MONITORING BATCH BUSINESS SERVICES

### Determine and Predict the Immediate Potential Scheduling Issues and Their Impact on the Business

BMC® Batch Impact Manager ensures the successful, on-time completion of critical batch business processes by proactively determining the business impact of a failure or delay. Users can define and manage batch flows on a business process level rather than just on a job level.

### Align IT Operations With Key Business Objectives

Achieving batch management from a business perspective begins with identifying your most critical business services, their related critical batch processes, and the batch jobs that facilitate them. Once critical batch processes are identified, BMC Batch Impact Manager dynamically tracks the status of the critical jobs and will predict the delay of a business process. The solution accomplishes this using job information and statistics from previous executions to determine if a service will be completed on time, be early, or be late. If the calculated completion time will not meet the "Must Complete By" time definition, a delay is identified and a predefined proactive alert is sent. This innovative approach for batch management assures your recovery actions will be prioritized according to the importance of the business service at risk.

Batch business services dependencies also can be defined in the Configuration Management Database (CMDB), allowing companies to ensure that when a change is planned, critical batch jobs are taken into account.

## BUSINESS PROCESS INTEGRATION: SEAMLESSLY INTEGRATE, AUTOMATE, AND SCHEDULE ALL YOUR NEW APPLICATIONS

Business processes today span batch jobs as well as real-time processes, but they often are managed from two separate perspectives: batch jobs are managed via a job scheduler, and real-time processes via integration brokers. Integration between the two usually is achieved via file transfers and scripts, and is prone to errors.

### Business Process Integration Offers Single Point of Control

BMC® CONTROL-M Business Process Integration Suite brings Java applications, Web services, and message-oriented middleware together with traditional batch jobs. This combination allows for a single point of control and business service management for the entire enterprise, while minimizing code changes when implementing application integration.

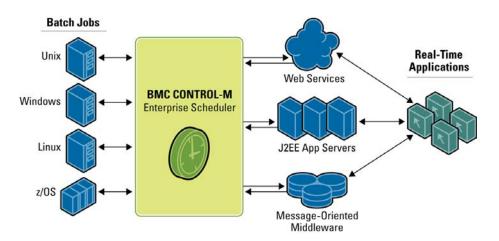### Focus on Business Services, not IT Components

BMC CONTROL-M Business Process Integration Suite provides a simple way to schedule Web services in the same way traditional batch jobs are being scheduled. BMC CONTROL-M Business Process Integration Suite allows you to:

> Schedule a Web service or a servlet job with the power of BMC CONTROL-M

> Use BMC CONTROL-M functionality available via a Web service interface

> Integrate with IBM WebSphere®, Microsoft BizTalk®, BEA WebLogic®, JBOSS, and more

### Enhance Java Application Automation

The BMC CONTROL-M Business Process Integration Suite schedules Java classes and EJBs the same way traditional batch jobs are scheduled — via the BMC CONTROL-M GUI — and BMC CONTROL-M's Java API allows any application to utilize the various BMC CONTROL-M functions.

BMC CONTROL-M Business Process Integration Suite is an automation broker that enables managing batch jobs and real-time processes as a single business process. This suite:

> Offers event-based scheduling

> Provides a single view of the business process

> Offers Service Oriented Architecture (SOA)

## MIGRATE WITH CONFIDENCE TO BMC CONTROL-M

BMC CONTROL-M helps you mitigate both the cost and potential risk of migrating from your current schedulers by:

> Providing an architecture that allows BMC CONTROL-M to coexist with other schedulers, freeing you to use the most convenient migration plan

> Offering automated conversion tools that have been proven in varied environments; the BMC conversion methodology utilizes these tools to achieve a migration that fits each customer's project objectives

> Leveraging the experience gained from more than 20 years of migrating from other scheduling solutions (We have converted more than 5 million jobs at 1,500+ companies from other schedulers to BMC CONTROL-M.)

> Leveraging BMC Certified Service Providers — a team of experienced consultants who design and implement highly effective solutions

## BMC IS STRONGLY COMMITTED TO BMC CONTROL-M

BMC has maintained a strong commitment to the future of BMC CONTROL-M and continues to ensure that it is still the most advanced scheduling system available -- even 20 years after its launch.

The BMC CONTROL-M research and development team not only is larger than any of our competitors' R&D teams, it also benefits through synergies from other BMC technologies and from a comprehensive worldwide support infrastructure.

Some important BMC CONTROL-M facts:

> BMC CONTROL-M has more than 2,000 customer installations

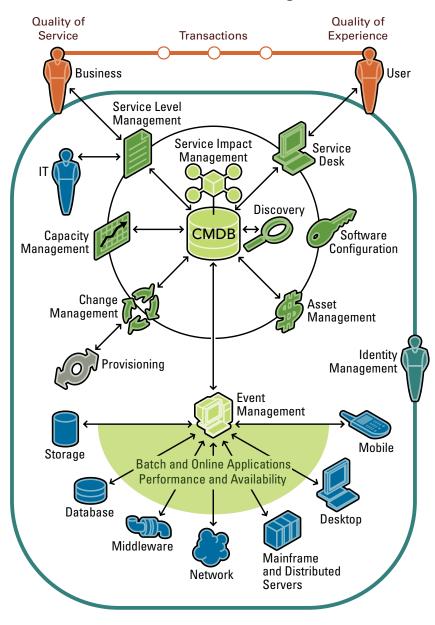> BMC dedicates 165 employees to R&D for scheduling

These factors contribute to a strong track record of development, enhancement, and support that has kept BMC CONTROL-M at the leading edge of scheduling technology. When your scheduling needs change in the future, BMC and BMC CONTROL-M will be ready.

## BMC CONTROL-M COMPLEMENTS BSM

Business Service Management is the most effective approach for managing IT from the perspective of the business. However, most vendors that claim to deliver BSM solutions actually only offer simple products and methodologies for online elements such as databases, servers, and various network components. These vendors are missing a vital component of the BSM equation: the need to monitor batch processes. The result is that more than half of all critical business data processing is completely ignored.

BMC is the only vendor offering end-to-end service monitoring and reporting, and BMC Batch Impact Manager is the only solution that manages batch SLAs and provides real-time information on the health of critical batch business services. BMC CONTROL-M and BMC Batch Impact Manager integrate with BMC® Service Impact Manager, the BMC CMDB, and BMC Remedy to provide a complete and accurate solution, covering all critical components of your business service. The across-the-board nature of the BMC CONTROL-M solution and its ability to integrate with other solutions makes it a significant and vital contributor to BSM.

With Business Service Management, you will reduce cost, lower risk of business disruption, and benefit from an IT infrastructure built to support business growth and flexibility. BSM helps your IT organization do more of what supports the business and less of what doesn't, and having an end-to-end solution can be the difference between failure and success.

## Business Service Management

## ABOUT BMC SOFTWARE

BMC Software helps IT organizations drive greater business value through better management of technology. Our industry-leading Business Service Management solutions ensure that everything IT does is prioritized according to business impact, so IT can proactively address business requirements to lower costs, drive revenue, and mitigate risk. BMC solutions share BMC Atrium™ technologies to enable IT to manage across the complexity of diverse systems and processes — from mainframe to distributed, databases to applications, service to security. Founded in 1980, BMC has offices worldwide and fiscal 2005 revenues of more than $1.46 billion. BMC Software. Activate your business with the power of IT. For more information, visit www.bmc.com.

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