



BMC Backup and Recovery Solution for IMS

Automate IMS backups and recoveries

Key Benefits

- » Virtually eliminate outages for image copies with Snapshot Copy
- » Encrypt image copies
- » Resubmit a failed image copy job — with no JCL or syntax changes — using Automated Restart
- » Eliminate the risk of errors and preserve data integrity throughout the backup and recovery process using intelligent automation
- » Create interactive charts and tables that display current state and historical information about jobs, databases, database partitions, data sets, and segments in the DBA Toolkit
- » Generate optimized JCL

Business Challenge

IMS data is growing, IT budgets are shrinking, and IMS experts are retiring. Continuous availability and performance requirements strain maintenance schedules. A comprehensive backup and recovery strategy is essential because if an outage occurs, you need to be able to recover quickly and without errors. How can you protect IMS data, ensure a fast, accurate recovery, and keep IMS online?

The BMC Solution

BMC Backup and Recovery Solution for IMS provides a comprehensive set of backup and recovery functions for all IMS database types, including full-function, HALDB, and Fast Path. It includes the following products:

- » BMC IMAGE COPY PLUS
- » BMC CHANGE ACCUMULATION PLUS
- » BMC RECOVERY PLUS for IMS
- » BMC RECOVERY MANAGER for IMS

Each product uses high-speed access methods, dynamically allocates data sets, and automatically restarts failed tasks.

BMC IMAGE COPY PLUS

- » Perform image copies fast and efficiently
- » Produce image copies without competing for online IMS resources, while also keeping databases available for other processing
- » Allow for Snapshot technology, concurrent copying, compression, and encrypted image copies

BMC RECOVERY PLUS for IMS

- » Recover databases quickly and efficiently
- » Enable concurrent recovery of multiple databases with one pass of log and change accumulation data sets and with multiple log readers for faster log processing
- » Enable recovery to any point in time (PIT), full recovery (with two-phase and single-phase methods), and roll-forward recovery
- » Allow recovery with no required change accumulation or log
- » Produce multiple output image copies during recovery

BMC CHANGE ACCUMULATION PLUS

- » Perform change accumulation quickly and efficiently
- » Process multiple change accumulation groups with one pass of log data sets
- » Perform faster sorting through multiple small sort tasks and ability to sort different key lengths

- » Stack multiple change accumulation data sets to reduce tape-related expenses
- » Reduce time and expense for performing change accumulation and reduce outages in recovery situations

BMC RECOVERY MANAGER for IMS

- » Automate and simplify recovery and related processes
- » Group related recoverable objects to simplify handling
- » Automate validation and rebuilding of groups
- » Check recovery assets to ensure that necessary data sets are available
- » Create additional recovery points to ensure recoverability within your service level agreements
- » Prepare RECON data sets for IMS startup and recovery using the Disaster Recovery RECON Cleanup utility

Additional Features

BMC Backup and Recovery Solution for IMS includes the following additional features:

BMC Recovery Advisor

BMC Recovery Advisor detects, reports, and corrects conditions that may affect the recovery of IMS databases. It also detects exception conditions, including image copy needed, image copy recommended, no valid image copy exists, and so on. For some events, BMC Recovery Advisor can take automatic defined actions to address the exceptions, such as submitting a job to perform an image copy or a change accumulation. BMC Recovery Advisor ensures that image copies and change accumulations are performed at appropriate intervals to minimize the number of logs required for recovery. It reduces automates many tasks and decisions that affect recoverability.

BMC Recovery Advisor provides the following features:

- » Conditional image copy – save time and resources by taking image copies of only the databases that have changed since the last image copy
- » RECON Reorg – reorganize the RECON data sets to get better performance

Concurrent Pointer Checking Support

- » Verify physical and logical database pointers during image copy and recovery processes to ensure structural integrity
- » Reduce the elapsed time and resources that would be required if the image copy or recovery and pointer checking functions were to be performed separately
- » Gain immediate assurance that the image copy or recovered database is valid, and detect problems immediately, while you still have the opportunity to correct them.

Index Rebuild Function

- » Rebuild the index, instead of recovering it from an image copy, if indexes are lost or damaged, thus avoiding the need to take and maintain image copies.
- » Automatically rebuild indexes and registration of virtual image copies for these indexes

For more information

To learn more, please visit www.bmc.com/ims.

**BUSINESS RUNS ON I.T.
I.T. RUNS ON BMC SOFTWARE.**
Business thrives when IT runs smarter, faster and stronger. That's why the most demanding IT organizations in the world rely on BMC Software across distributed, mainframe, virtual and cloud environments. Recognized as the leader in Business Service Management, BMC offers a comprehensive approach and unified platform that helps IT organizations cut cost, reduce risk and drive business profit. For the four fiscal quarters ended June 30, 2010, BMC revenue was approximately \$1.92 billion.