

Backup and Recovery Solution for IMS™

Back up and recover IBM® IMS™ data easily and effectively

PRODUCT DESCRIPTION

Backup and Recovery Solution for IMS provides a comprehensive set of backup and recovery functions for full-function, HALDB, Fast Path, and BMC Partitioned Database Facility (PDF) databases. It includes support for full disaster recovery.

BUSINESS CHALLENGE

The digital economy and resulting data explosion have caused IMS databases to grow exponentially, but users still need continuous access to their data. It's imperative to keep data online and available even during routine backups. A comprehensive backup and recovery strategy is essential to ensure that you have the data you need if an outage occurs. If an outage occurs, you need to be able to recover quickly and without errors.

BMC SOLUTION

Backup and Recovery Solution for IMS provides a comprehensive set of backup and recovery functions for local and disaster recoveries that you can easily manage through an integrated graphical interface. Because the product provides a clear view for what has occurred in IMS, you can dramatically reduce the mean-time-to-resolution (MTTR) for complex backup and recovery errors while ensuring data integrity.

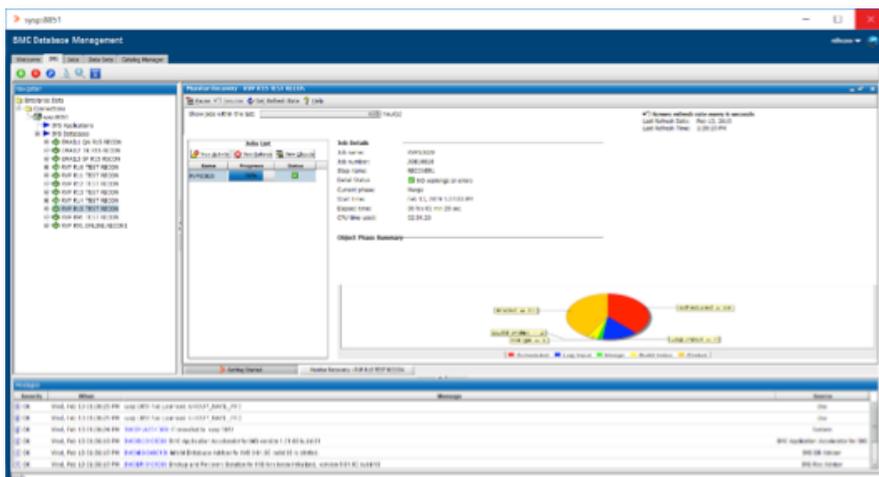
KEY FEATURES

Backup and Recovery Solution for IMS makes it easy to manage image copies and both local and disaster recoveries. The solution is:

- **Efficient** – Detects, reports, and corrects conditions that may affect the recovery of IMS databases.
- **Flexible** – Detects exception conditions, including image copy needed, image copy recommended, no valid image copy exists, and more. Enables you to simulate a recovery so that you'll be prepared in case of emergency.
- **Powerful** – Ensures that image copies and change accumulations are performed at appropriate intervals to minimize the number of logs required for recovery. Automates many tasks and decisions that affect recoverability.

KEY BENEFITS

- **Eliminates errors and ensures data integrity** throughout the backup and recovery process by using intelligent automation.
- **Maximizes availability** by performing copy operations while databases are online.
- **Simplifies backups and recoveries** through the use of a Web-based interface that provides built-in intelligence.
- **Speeds local and disaster recoveries**



- **Recovery Advisor** monitors active recoveries and shows the progress.

PRODUCT DETAILS

Recovery Advisor detects, reports, and corrects conditions – and automates many tasks – that may affect database recovery. It detects exception conditions, including image copy needed, image copy recommended, no valid image copy exists, and more. For some events, it can automatically address the exceptions, such as submitting a job to perform an image copy or a change accumulation. Recovery Advisor ensures that image copies and change accumulations are performed at appropriate intervals to minimize the number of logs required for recovery. With Recovery Advisor, you can save time and resources taking image copies of only the databases that have changed since the last image copy (conditional image copy), and you can reorganize the RECON data sets to get better performance.

The Image Copy function takes image copies quickly and efficiently. It produces image copies without competing for online IMS resources and while databases remain available for other processing. It uses Snapshot technology, concurrent copying, compression, and it can produce encrypted image copies. Because the image copy process is self-tuning and optimizing, you don't need to worry about block sizes, buffer pool sizes, or I/O subsystems. It creates either consistent or concurrent image copies that you can stack.

The Recovery function enables concurrent recovery of multiple databases with one pass of log and change accumulation data sets and with multiple log readers for faster log processing. It enables recovery to any point in time (PIT), full recovery (with two-phase and single-phase methods), and roll-forward recovery. It allows recovery with no required change accumulation or log, and it produces multiple output image copies during recovery.

The Recovery function enables you to build databases that are consistent for testing purposes efficiently and without affecting production availability. Recovery estimation and the unique recovery simulation function enable you to verify the time it will take to recover, a requirement of GDPR and other regulations.

The Change Accumulation function processes multiple change accumulation groups with one pass of log data sets, performs faster sorting through multiple small sort tasks, can sort different key lengths, and lists all required input data sets for standard or disaster recovery. Because it reduces the time and cost of change accumulation, you can accumulate changes more frequently and reduce outages for recoveries.

The Recovery Management function automates and simplifies recovery and related processes by grouping related recoverable objects, automatically validating and rebuilding groups, checking recovery assets to ensure that necessary data sets are available, and creating additional recovery points to ensure recoverability within your service level agreements.

Concurrent Pointer Checking verifies physical and logical database pointers to ensure structural integrity during the image copy and recovery processes to reduce the time and resources that would be consumed if the image copy or recovery and pointer checking functions were performed separately.

The Index Rebuild function allows you to rebuild lost or damaged indexes rather than recovering them from an image copy. It automatically handles the rebuilding of indexes and registration of virtual image copies for these indexes. By rebuilding rather than recovering an index, you avoid taking and maintaining index image copies.

Disaster recovery features include a RECON clean-up utility that manages the logs and subsystem records that will be required when the IMS is restarted, which is vital because you cannot begin to recover databases until a successful IMS cold start at the disaster recovery site. Backup and Recovery Solution for IMS collects and maintains extensive information so that data sets can automatically be redefined with the IDCAMS utility, eliminating database allocation errors during recovery.



FOR MORE INFORMATION

To learn more, please visit bmc.com/ims

About BMC

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