



BMC MAINVIEW SRM StopX37/II

Key benefits

- > Maximizes valuable staff and CPU time
- > Saves DASD space
- > Recovers wasted space
- > Reduces schedule interruptions and reruns
- > Helps ensure job completion during peak periods such as year-end processing
- > Minimizes help desk calls

BMC MAINVIEW SRM StopX37/II proactively prevents and recovers abends, ensuring that jobs complete successfully the first time they run. BMC MAINVIEW SRM StopX37/II operates only when needed, efficiently maintaining continuous availability.

Business challenge

Few businesses today can afford processing delays or job reruns. Abends can cause significant delays. Recovering from space-related abends continues to be a challenge even with additional functions in the IBM® DFSMS product. As storage capacity continues to expand while storage management staff remains static, automating the recovery of space shortages to ensure availability is increasingly important.

Abend prevention with DFSMS

When a storage administrator develops a management structure and assigns constructs to DFSMS storage groups, the goal is to anticipate space shortages and avoid running out of allowable space and abending a job. Even when additional parameters are available in DFSMS to handle space-related problems, the same issue remains: complex implementation of global space recovery functions that are processed in an all-or-none fashion. This complexity can waste resources and increase volume fragmentation and still not eliminate x37 abends.

Proactive abend prevention and recovery

A more effective and efficient technique is to trap abends, and if the operating system allows, enable a variety of actions that allow the job to complete. This approach minimizes overhead, fragmentation, and other side effects of abends that waste space.

BMC MAINVIEW SRM StopX37/II

By proactively preventing or recovering abends, BMC MAINVIEW SRM StopX37/II from BMC Software allows jobs to complete successfully the first time. MAINVIEW SRM StopX37/II functions dynamically at the data set level. It operates only when needed, efficiently maintaining continuous availability. Functionality at the operating system level intercepts abend conditions, providing services without JCL changes.

Storage management allocation

BMC MAINVIEW SRM Stop X37/II automates management tasks, including the ability to

- > Add secondary space allocation when needed but not requested, based on percentage of primary space available
- > Reduce primary space allocation by a user-defined percentage, if the operating system cannot find space. The reduction continues until the job is successful or a user-defined threshold is reached.
- > Reduce secondary space allocation, either by substituting the largest extent on volume for secondary space allocation requested after the operating system has made the attempt or by matching secondary space allocation to the best fit.
- > Increase secondary space allocation after a user-specified extent limit is reached.
- > Add a volume if the extent limit for a volume is reached or extents are not available on the volume.

- > Prevent NOT CATLGD2 errors by renaming, deleting, or uncataloging old versions. This prevents I/O errors and access of invalid data by allowing the operating system to catalog the current version.
- > Initialize empty data sets that are newly allocated at step end, releasing unused space and enabling DFSMSHsm to recognize and migrate the data sets.
- > Optimize block size. You can overriding block sizes of new allocations to improve space usage and performance. You can also convert requests from cylinders or tracks to blocks to device independence.
- > Redirect allocations to VIO for temporary data sets with the option to limit use to data sets of a specified size, automatically releasing unused space when a data set closes.

Reporting results

Reports provide information about:

- > Each event that could have caused a job recovery attempt, describing the type of recovery and whether it was successful
- > The impact of abends on jobs, including the impact on the CPU, elapsed time, and other factors
- > All recovery steps taken by BMC MAINVIEW SRM StopX37/II for a given job, plus savings achieved in terms of time, CPU usage, and labor

In addition, a DASD utility report identifies wasted space, underused volumes, fragmentation indexes, and volumes with the potential for space errors because of insufficient free DSCBs. You select the volumes and determine the alarm thresholds for each.

Managing multi-volume data sets

BMC MAINVIEW SRM StopX37/II provides utilities that help you clean up after recoveries that create multi-volume data sets. The dynamic multi-volume data set extent consolidation utility works with the SPACVOLA (add a volume) function and DFSS or FDR to consolidate a data set onto a single volume. The data set reorganization utility reorganizes multi-volume data sets back to a single volume after a volume switch recovery.

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