



## BMC MAINVIEW SRM Reporting

### Key benefits

- > Enables proactive management of storage subsystem performance
- > Enables realistic estimates of peak use for more effective capacity planning
- > Optimizes deployment of RAID technologies with vendor-specific device support
- > Automates and prioritizes space management tasks according to a return-on-investment model
- > Resolves many problems automatically
- > Generates storage-related capacity and performance alarms
- > Extends IBM DFSMSHsm (HSM) functionality and provides real-time HSM monitoring
- > Provides scheduling of commands and functions without the use of an automated operations system
- > Provides pooling policies that enable the scheduling of data collection, logging, and automation activities on repeating intervals
- > Includes the functionality of MAINVIEW SRM EasyHSM, MAINVIEW SRM SG-Control, and MAINVIEW SRM StorageGUARD

**BMC MAINVIEW SRM Reporting provides comprehensive storage information based on real-time and interval-driven monitoring. BMC MAINVIEW SRM Reporting monitors, analyzes, and automates tasks to safeguard the health of storage subsystems and ensure that critical applications complete successfully.**

### Business challenge

Streamlining storage management is increasingly important as businesses use greater amounts of storage resources and add more diverse storage systems. Storage managers need access to quick, accurate storage resource information.

### BMC Software solution

BMC MAINVIEW SRM Reporting monitors, analyzes, and automates tasks to safeguard the health of storage subsystems and ensure that critical applications complete successfully. BMC MAINVIEW SRM Reporting provides comprehensive storage information based on real-time and interval-driven monitoring, along with commands and automated tasks. This combination of features enables storage managers to

- > Report on storage activities as they occur
- > Manage storage subsystem performance
- > Observe trend data
- > Obtain true minimum and maximum occupancy information
- > Establish storage budgets for logical groups and warn administrators or deny allocations when budgets are exceeded
- > Obtain application and functional views of storage use
- > Quickly obtain the information most commonly used to manage disk resources

- > Define thresholds that trigger an unlimited series of self-monitoring, automatic tasks
- > Develop customized monitoring and automation procedures for volumes, pools, and logical groups

BMC MAINVIEW SRM Reporting gathers historical information on pools, volumes, data sets, and VTOCs and displays the results. A powerful, user-defined search engine rapidly locates information required for daily space management.

Using BMC MAINVIEW SRM Reporting, you can view reports and graphs from an ISPF interface or MAINVIEW Explorer. Daily or monthly trend reports display information about

- > Space allocated, used, and idle
- > Number of data sets
- > Fragmentation index

You can customize batch reports to select fields and the order in which they are displayed. You can generate multiple reports in a single job. Virtually all information can be produced in batch.

**Historical performance and capacity planning**  
BMC MAINVIEW SRM Reporting collects detailed historical information about storage performance and capacity. Performance statistics for data sets include response time, I/O rates, and cache activity. Performance and storage-use statistics are collected and summarized at several levels. For example, you can use monthly summaries to forecast storage usage and use daily and interval

information to pinpoint a problem. Performance reports are updated automatically at user-defined intervals (snapshots). Real-time activity information is provided for devices, I/O queuing, channels, and contention by enqueue and reserves. Vendor-specific RAID reports provide data critical to device optimization.

Performance and capacity exception management is a threshold-based facility. For example, you can generate an alarm for net capacity load in IBM RVA disk subsystems or a high cache read miss percentage in EMC Symmetrix devices. An alarm can be sent to BMC MAINVIEW SRM Automation to initiate corrective automated actions.

The capacity planning facility enables collection and reporting on resources over longer time periods than can be supplied by the detail databases that are used throughout BMC MAINVIEW SRM. The capacity planning database contains daily space summaries for numerous resources.

#### Application definitions

To meet business needs, storage must be deployed and managed according to its use. Storage occupancy should be viewed from the perspective of logical groupings, such as departments or applications. BMC MAINVIEW SRM Reporting uses application definition for these user-defined groupings. DADSM exits (pre- and post-processing exits as well as user-defined exits) enable BMC MAINVIEW SRM Reporting to monitor space at allocation and deallocation to provide an accurate evaluation of an application's storage use versus its quota.

#### Space availability

Controlling DASD consumption does not usually give the storage administrator authority over users. However, it may be necessary to deny an allocation for a non-critical process, so that business-critical applications have the space they need. The data sets usually are not exclusive to a single job. Therefore, it is important to be able to categorize a data set in various ways and to exercise various kinds of control.

With BMC MAINVIEW SRM, a data set can be a member of up to four application definitions that can be tiered or hierarchical. Each application definition can have different quota controls, including monitor, warn, or reject the allocation if the quota is exceeded. Important applications are assured of space,

while those that are optional are restricted. You can remove restrictions when conditions change, such as when the request is made outside peak shift.

#### Output management

You can automate the response to HSM and DFSMSdss (DSS) messages by automatically generating control statements in response to key HSM errors. Cryptic error log messages are filtered, reworded, and responded to, based on your criteria. This feature saves time and makes HSM easier to manage.

#### Backup control

BMC MAINVIEW SRM Reporting makes it easy to include or exclude data sets for backup processing. Filtering minimizes coding and ensures that automatic backups do not occur for data sets that do not need them. ALTERD commands are not required.

#### Recall allocation

BMC MAINVIEW SRM Reporting extends the benefits of HSM to non-SMS-managed data by pooling non-DFSMS data sets that HSM recalls. Within eligible pools, volumes are selected based on the "best fit" of the data set to available extents to control fragmentation.

#### Scheduled services

You can enable scheduled invocation of BMC MAINVIEW SRM-related commands and functions without the use of an automated operations system. The commands can be scheduled to execute at various times throughout the day on various days of the week. They can run once, or they can be scheduled to run on a regular basis.

#### Pooling policies

You can schedule data collection, logging, and automation activities on one or more repeating intervals. These intervals can be initiated at different times during the day, which allow data logging and automation to occur against different pools, storage groups, or volumes at different times on different systems.

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### About BMC Software

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