TotalRecall v4.4.1

TeraCloud
storage analytics: the value of knowing

Manage DFSMShsm on DASD and Tape

Total Recall provides detailed real-time and historic reporting and analysis to manage DFSMShsm on DASD and tape. Are thrashing conditions consuming CPU cycles, tying up tape drives and affecting batch turnaround? Are unnecessary man-hours spent trying to understand data movement or backup activities? Total Recall solves these problems and more.

Keep Data in the Right Place and Right Time

Total Recall, an integrated component of SpaceFinder Workbench, helps DFSMShsm guarantee data is in the right place at the right time. With user-defined requirements for performance security, and availability, Total Recall audits your SMS and HSM environment. Monitor, evaluate and correct HSM activity to guarantee optimal DASD and tape utilization and service level performance.

Supported Environments

- IBM DFSMShsm, all versions and releases
- IBM DFSMS, all versions and releases
- IBM OS/390, all versions and releases
- IBM OS/390 Communications Server, all versions and releases
- IBM z/OS, V1R1 and later
- Interlink TCP/IP, all versions and releases
- RACF, ACF and Top Secret, all versions and releases
- TCP/IP, all versions and releases

Solution Highlights

Monitor in real-time, the total impact of DFSMShsm recall, backup and migration activity.

Examine data with user-defined queries and thresholds to filter out unwanted or informational messages.

Evaluate the impact of SMS classes in your DFSMShsm environment. Correct excessive resource utilization with customized tuning.

Monitor multiple HSM systems from a single consolidated view (SYSPLEX compliant) for maximum productivity.

Instantly appraise migration and recall patterns to minimize "thrashing" conditions, save CPU cycles, reduce tape mounts and ultimately reduce the nightly batch processing window.

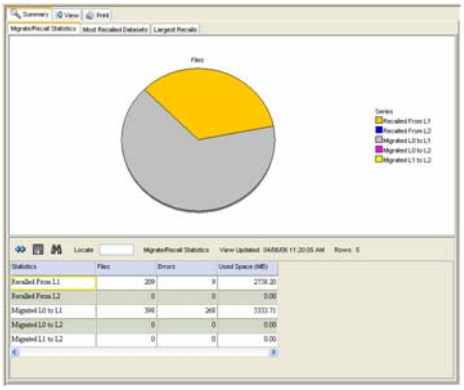
Simplify actions to cleanup poor DFSMShsm xCDS data set retention issues for SMS and non-SMS allocations.

Summarize daily activity by hour, user, job or error type and quickly move to detail.

Eliminate data set thrashing by monitoring DFSMShsm logs to identify problems and tune future migration rules applied to thrashing data sets.

Detect a missed backup and automatically submit a job to re-initiate the backup function.

Monitor ML1 pool utilization and automatically re-issue a command to migrate large files to ML2.



Example of the Summary Tab for Total Recall

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Challenge

Staying ahead of DFSMShsm demands

Total Recall simplifies DFSMShsm management by providing the ability to easily navigate large amounts of HSM data with countless custom views and activity trending.Detailed drill-down reports effectively examine HSM activity and efficiency.

Finding and fixing DFSMShsm problems

Total Recall analyzes real-time and historic DFSMShsm activity to identify and resolve potential issues, ensuring the health of your HSM system.

Ensuring an efficient DFSMShsm environment

Monitoring real-time DFSMShsm activity, Total Recall effectively manages the SMS and HSM relationship to optimize HSM efficiency for improved application performance and increased storage utilization.

Tuning for HSM effectively

Eliminates the time required to research HSM activity and resolve HSM issues with powerful modeling and analysis of SMS performance. By tuning storage management classes, Total Recall reduces CPU consumption and I/O contention, frees tape drive resources and increases overall system efficiency.

Eliminating data set thrashing

Monitors, detects, analyzes and helps resolve HSM-related issues 24/7/365. Total Recall can identify all migrated and recalled data sets based on frequency within a specific period and generate corrective management class actions to reduce or eliminate future thrashing violations.

Solution

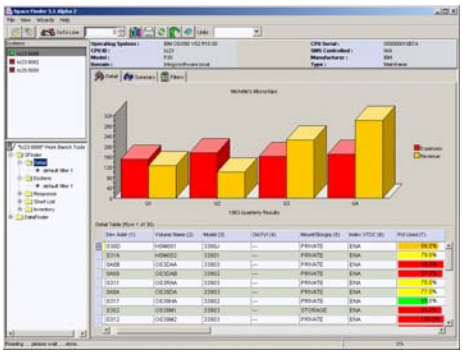
Total Recall navigates the large quantities of DFSMShsm data to model, analyze and tune your HSM environment. Providing comprehensive and interactive views from MCDS, BCDS and the SMF records created by the DFSMShsm daily workload, Total Recall ensures the health and efficiency of your HSM environment.

Total Recall reports on DFSMShsm activity such as recall rate, migration and backup failures, as well as summary activity by data set, application, user and job. Total Recall's unique real-time analysis capabilities allow you to monitor HSM activity as it occurs.

Total Recall saves you time, money and provides control by allowing you to: Capture and audit all DFSMShsm errors across multiple systems in a SYSPLEX environment. Report on migration and recall by job name or user. Trend and analyze DFSMShsm activity. Model effects of DFSMShsm on storage groups. Charge back costs by DFSMShsm management level 1 (ML1), management level 2 (ML2) or application. Monitor activity of data sets by last migrate or recall date. Summarize ML1 and ML2 data set utilization. Group Data by application or HLQ to understandimpact of back-up, migration and dump tape usage.

Key Benefits

- Provides visibility to the comprehensive impact of DFSMShsm recall, backup and migration activity.
- View the impact of SMS classes on your HSM environment and tune the environment as needed to reduce excessive resource utilization.
- Tracks activity of DFSMShsm across multiple systems and provides detailed views for root-cause analysis.
- Leverages existing storage investment by consistently monitoring HSM owned tapes, migration, backups and dumps to ensure all data is identified and used efficiently.
- Identifies and excludes non-migratable data sets and amends their MGMTCLAS to reduce DFSMShsm errors.
- Minimizes 'thrashing' by auditing migration and recall patterns which saves CPU cycles, reduces tape mounts and improves the batch window.
- Captures, identifies, summarizes and corrects DFSMShsm errors.
- Analyzes aggregate and drill down reports to ensure the health and efficiency of your DFSMShs



Ensure the health and efficiency of your DFSMShsm environment across your S/390 enterprise.