Manage DFSMShsm on DASD and Tape

TSF HSM Manager 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? TSF HSM Manager solves these problems and more.

Keep Data in the Right Place and Right Time

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

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 (SYSPLEX compliant) consolidated view for maximum productivity.

Instantly appraise migration and recall patterns to minimize "thrashing" conditions, save CPU cycles, reduce tape mounts and ultimately improve 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 with instant drill-down to detail to better manage overall effectiveness of HSM.
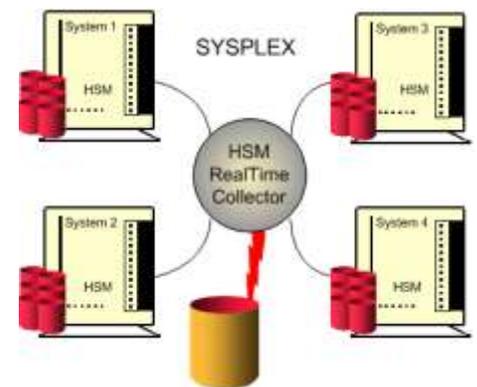
Eliminate Data Set Thrashing by monitoring DFSMShsm logs to identify problems and tune future migration rules applied to thrashing data sets.

Detect a Missed Backup and automatically submit a job to re-initiate that backup function.

Monitor ML1 Pool Utilization and automatically issue commands to migrate large files to ML2.

Supported Environments

▶ z/OS (all IBM supported versions)

TSF HSM Manager enables HSM with easy to use, value-added capabilities

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Challenge

Staying ahead of DFSMShsm demands
Simplified HSM management with the ability to easily navigate large amounts of HSM data and customize countless views and trend activity. Detailed drill-down reports effectively examine HSM activity and efficiency.

Finding and fixing DFSMShsm problems
Analyze 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 HSM activity to effectively manages the SMS and HSM relationship to maximize HSM efficiency for improved application performance and increased storage utilization.

Tuning for HSM effectively
Eliminate the time required to research HSM activity and resolve HSM issues, with powerful modeling and analysis of SMS performance. Tune management classes to reduce CPU consumption and I/O contention, freeing tape drive resources and increasing overall system efficiency.

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

Solution

TSF HSM Manager navigates the large quantities of DFSMShsm data to model, analyze and tune your HSM environment. Providing comprehensive, interactive views from MCDS, BCDS and the SMF records created by DFSMShsm's daily workloads, It ensures the health and efficiency of your HSM environment.

TSF HSM Manager reports on DFSMShsm activity such as recall rate, migration and backup failures as well as summary activity by data set, application, user and job. It's unique real-time analysis capability allows monitoring of HSM activity as it occurs.

TSF HSM Manager greatly simplifies DFSMShsm management, which saves time, money and provides you increased control. Capture and report on 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 the 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 better understand the impact 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.

▶ Track activity of DFSMShsm across multiple systems and drill down for detailed views for root-cause analysis.

▶ Leverages existing storage investment by consistently monitoring HSM-owned tapes (including migrate, backup, dump and invalid) to ensure all data is identified and allocated 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 ultimately improves the batch window.

▶ Captures, identifies, summarize and corrects DFSMShsm errors.

▶ Analyzes aggregate and drill down reports to ensure the health and efficiency of your DFSMShsm environment.

Ensure the health and efficiency of your DFSMShsm environment across your z/OS enterprise.

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