

PRECISE FOR STORAGE TIERING

Optimize EMC Symmetrix and CLARiiON Storage for Performance and Cost

The increase in demand and importance of storage has made achieving high performance at a low cost difficult. Optimizing storage for both performance and cost is achieved through storage tiering; moving business critical data to faster drives, and stale data to slower tiers. Where previously storage was short-stroked to maximize performance, EMC's new breed of flash drives allow customers to recapture this wasted capacity and slash operational expenses. But knowing which data to allocate to this faster, and more expensive, tier requires deep knowledge about the value of the data. It requires storage to be business- and transaction-aware.

Bringing Business Awareness to Storage

To an application owner, storage can be a black box. To the storage administrator, business requirements and priorities are similarly difficult to determine. This lack of transparency between business and IT, along with a lack of comprehensive storage performance management tools, makes understanding the effect that poor storage performance has on application performance difficult.

Precise has developed a special edition of their Precise for Storage™ product which integrates with EMC Symmetrix and CLARiiON. A result of deep collaboration between Precise and EMC engineering groups, Precise for Storage Tiering provides a sophisticated Transaction Performance Management (TPM) solution to track business transactions deep into EMC storage arrays. By correlating business transactions with the files, devices, or disks being accessed, Precise TPM brings business awareness to storage.

Precise for Storage Tiering gives customers the information they need to map their enterprise application data to the "right" storage solution (EFDs, short-stroked 15K RPM, or SATA).

Precise, an EMC Select Partner

To become an EMC Select partner, we worked closely with EMC engineering to ensure our product met or exceeded EMC's comprehensive quality assurance and interoperability requirements. This ensures you can confidently and easily implement Precise TPM solutions for EMC in your environment.



Benefits

» **OPTIMIZES** storage performance of critical business transactions whether OLTP, batch or B2B

» **PREDICTS** the performance impact of data migration to SATA, HDD, or EFDs

» **IDENTIFIES** high priority data to help cut costs through business storage tiering

» **ISOLATES** hot devices to help reduce storage collisions and more evenly distribute load

» **CORRELATES** performance problems for one application, transaction or device with other transactions to avoid collateral damage

» **SUPPORTS** Symmetrix and CLARiiON via the EMC Solutions Enabler for Oracle and SQL Server

Precise Solutions, designed for EMC

PRECISE FOR STORAGE TIERING

Precise for Storage collects information about database activity, and correlates it to the files, devices, or disks being accessed. This information is stored in the Precise performance management database (PMDB™) and used to report on performance over time, helping IT isolate performance problems and pinpoint root cause in either the database or storage tiers.

PRECISE FOR STORAGE TIERING PLUS APPLICATIONS

Precise for Storage plus Applications extends this visibility beyond the database and storage to encompass the entire end-to-end business transaction. Detailed performance diagnostic data collected from application (SAP, Siebel, PeopleSoft, Oracle E-Business or custom J2EE/.NET), database and storage tiers is stored in the Precise PMDB, and correlated back to the initiating user or batch transaction. This additional level of visibility allows IT to isolate and correct performance problems anywhere in the stack.

BUSINESS STORAGE TIERING OPTIMIZER

Once collected, the historical performance information from the PMDB is used by our Business Storage Tiering Optimizer. The Optimizer has been equipped with detailed models representing the performance characteristics of various EMC storage products, such as EFDs or SATA drives. By feeding historical PMDB data into these models, the Storage Tiering P accurately predicts the performance impact of any planned data migration at the disk, device, file, or object level. This helps customers choose storage tiering strategies that maximize performance and minimize cost.

Recommendations	Performance Gain	Cost Gain
Move from HDD to EFD	↓ 78.74%	\$-4,262
Move from HDD to EFD	↓ 68.86%	\$-1,894
Move from HDD to EFD	↓ 68.86%	\$-1,894
Move from HDD to EFD	↓ 68.85%	\$-3,789
Move from HDD to EFD	↓ 66.34%	\$-3,789

Easily predict the cost and performance impact of a migration of a device, volume, file, transactions or database object

Benefits

Accelerate MTTR for Performance Problems

Visibility into all aspects of your critical business transaction performance allows IT staff to isolate the root cause of problems quickly.

Reduce Operational Expenses

Precise accurately predicts the performance increase resulting from migration of short-stroked drives to EFDs, accelerating migration and allowing you to reduce power, cooling, and space requirements.

Expedite Storage Tiering Projects

Many tiering projects are delayed when users refuse to allow their seldom-used data to be migrated to a slower tier. By predicting post-migration performance of low priority business transactions, Precise allows businesses to assess the performance impact of their cost-saving efforts.

Automatically Detect Storage Contention

By tracking transactions all the way down to physical storage, Precise identifies “hot” devices, allowing administrators to relocate files as necessary.

TRANSACTION PERFORMANCE MANAGEMENT

About Precise

Precise delivers transaction transparency, fastest time to-repair and game-changing problem prevention to customers worldwide. With Precise business and IT can clearly see where critical transactions spend time and how well they are performing against business expectations, providing a whole new perspective on complex IT infrastructure.



Visit our Web site
www.precise.com

To speak with a Product Specialist
Call toll-free **1 (877) 845 1886**
within the U.S., or visit our website
to find an office nearest you.