

Performance Tuning and Planning

In-depth performance analysis of your end-to-end Informatica MDM system with recommendations for improvement

Reduce Batch Windows

Meet Transactional needs

Improve User Experience

Increase User Adoption

MDM Performance Challenge

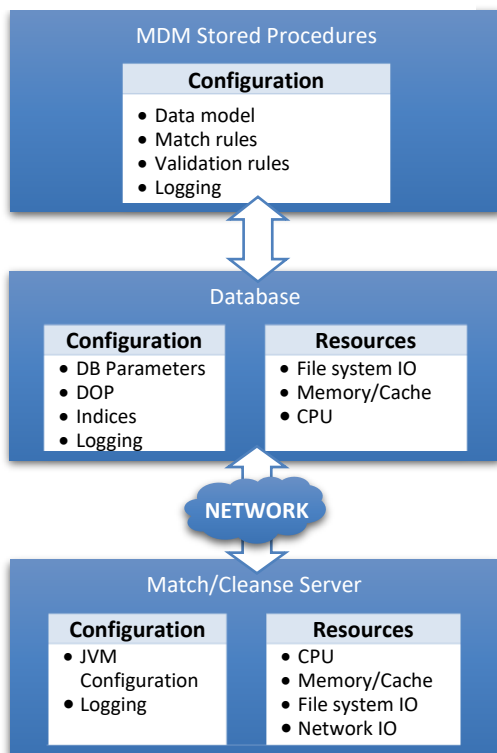
Master Data Management (MDM) software solutions solve mission-critical business issues dealing with the trustworthiness of data that is essential for customer service, sales, marketing, and regulatory compliance. Customer and product data from across the organization is consolidated, compared, matched and merged to create a trusted source.

This process also creates a large repository of source data, merged data, relationship data, and meta-data that makes MDM solutions vulnerable to performance issues. With large and growing volumes of data, sourced from distributed systems, and housed in shared storage on the network, there are many “performance points” that are at risk for sub-optimal levels of performance, which when combined deliver unacceptable levels of MDM system performance.

There are many reasons why MDM system performance is critical to businesses today. Here are a few examples:

- Slow MDM system performance means longer “batch windows” for processing reference data, which can degrade operational performance.
- Real-time activity can be delayed when a transaction relies upon a poor performing MDM system for information.
- Data Stewards and other users of the MDM system become frustrated by slow response times, impacting productivity and willingness to use the system.

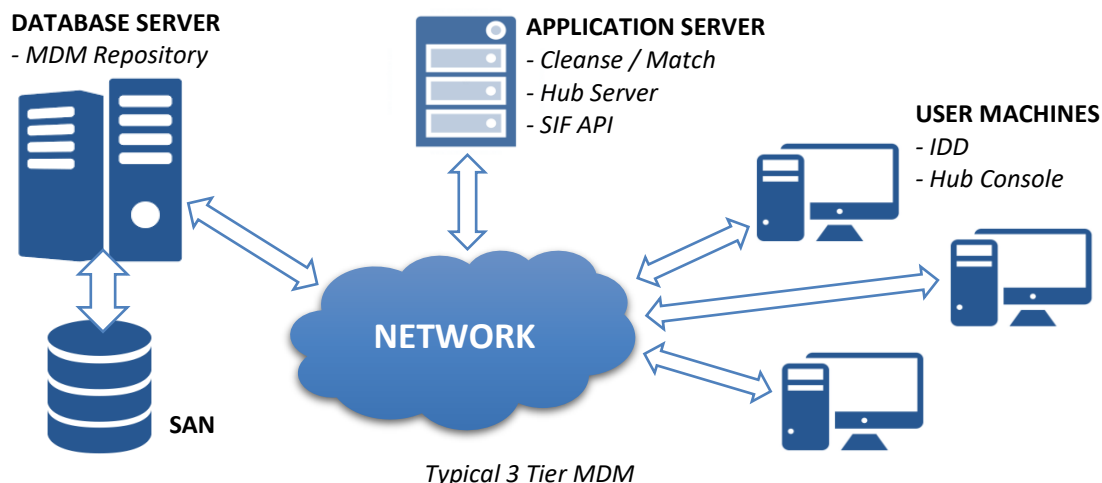
MDM Resources Utilization Map



To make matters even worse, data volumes and connected systems continue to grow over time, further stressing an under-performing system to deliver increasing worse performance over time. And the performance of the MDM system affects the performance of connected systems. So, what can you do if your MDM system is not performing as expected or needed?

The Solution

Tuning an MDM system with a 3-tier architecture can be complex. Each tier has its own resource dependencies, and “Performance Points”, locations where performance issues are caused. Points at the intersection of tiers can be particularly important. Using their MDM experience the Globalsoft team has built a performance review and testing methodology that quickly determines bottlenecks and how to remove them.



Approach

Performance requirements vary for each MDM deployment. For example, an existing MDM production environment exceeding processing windows, could require immediate measurement and isolation. While planning for a future project may choose an immediate review with plans for detailed characterization later.

Globalsoft understands this and delivers a multi-tiered approach to Performance Planning. Each tier provides different insight into the root cause and the likely improvement in performance from tuning.

Performance Review

A qualitative assessment of performance is important to planning for future growth or a new phase. Ensuring future development will accommodate performance needs. During the review, the team collects current performance data, environment details and MDM configuration. This data drives a report of recommendations and expected performance based on best practices and Globalsoft's experience. This will include observations around DB parameters, infrastructure, as well as MDM configurations.

Performance Characterization

An impact report is a powerful tool to increase current performance effectively and efficiently. A characterization is a process to quantify a set of recommended changes. These recommendations can be created as part of the characterization or come from a previous performance review.

Test runs are created so that the changes can be made iteratively measuring the actual performance changes. The data is then consolidated into a report quickly showing the project performance benefits of each potential choice.

Performance Benchmarking

If an MDM environment is experiencing performance issues, Benchmarking is an expedient way to determine where to focus efforts. A suite of benchmark tests are run on a copy of an existing ORS. These tests are run on a hardware test set with known performance characteristics. This test can quickly determine if performance characteristics are driven primarily by underlying infrastructure or by hub configuration.

	Review	Characterization	Benchmarking
Analysis			
Review System Metrics	✓	✓	✓
Review Existing Configuration	✓		
Measure database IO	✓	✓	
Measure file system IO	✓	✓	
Change MDM configurations		✓	
Run performance tests		✓	
Measure performance impacts		✓	✓
Run ORS in separate environment			✓
Reports			
Configuration recommendation	✓		
High level performance vs expected	✓		
Performance impacts measured		✓	
Performance differences measured			✓
Duration (weeks)	4	8	3

About Globalsoft

Globalsoft is an MDM-focused global software consultancy with over twenty years of experience helping customers and vendors solve challenges with Data Management and Integration.

For customers of Informatica MDM, Globalsoft has developed products and solutions to maximize the return from MDM, and its extensive experience makes Globalsoft a preferred provider of MDM services.

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