

# PRECISE FOR MICROSOFT .NET

Transaction Performance Management for .NET Applications

Multi-tiered applications written on Microsoft .NET are quickly gaining momentum in the marketplace. Microsoft Sharepoint, SQL Server Reporting Services, custom applications and more are being leveraged to power enterprise processes. When slowdowns occur, the .NET tier supporting these applications is commonly blamed. However, slowdowns are often a symptom of problems in another tier, such as the database tier or the Web tier. To isolate the definitive root cause of application performance problems, you need an integrated solution that manages performance end-to-end.

## Multi-Tier Applications Management Challenges

As organizations deploy and manage mission-critical applications using Microsoft .NET, they need to use state-of-the-art management practices. For all of its flexibility and capabilities, the .NET engine is essentially a “black box” provided by Microsoft; it does not expose actionable metrics about where it spends its time. The standard techniques for obtaining this information, such as Trace, are not suitable for use in production environments.

With limited visibility into production application behavior, it is difficult to provide reliable service levels. Without root cause analysis, staff has to use a trial and error approach to correcting problems - negatively impacting the users. These “fire drills” have a very high cost. Using Precise for .NET brings a disciplined management by measurement methodology to the ongoing management of .NET applications.

## Precise for .NET Applications

Precise for .NET helps prevent performance problems across mission critical applications such as Sharepoint, Microsoft SQL Server Reporting Service, and custom .NET application.

We do this by correlating end-user transactions with the URLs, application calls, databases, and storage devices that they access. This tier-to-tier view of performance data helps IT teams to determine how one application component is affecting the performance of another. This enables IT organizations to isolate slowdowns on the Microsoft .NET tier or follow the problem in context into another tier for resolution.

## Benefits

- » **MONITOR** ASP.NET, ADO.NET, Web services, XML, Windows forms, Microsoft .NET remoting, SQL Server stored procedures, and more
- » **IDENTIFY** performance issues before end users are impacted or batch windows are exceeded
- » **ACCELERATE** problem resolution with an in-context view of all .NET application, database and storage components
- » **ANALYZE** and review historical information in our Performance Management Database
- » **AUTOMATICALLY** identify hot spots in your application and correlate activity across Web servers, application servers, and databases
- » **VISUALLY** manage SLA compliance per instance, service request, or business transaction
- » **MANAGE** Web services in Service Oriented Architecture (SOA) environments
- » **DEFER** costly infrastructure upgrades by tuning performance

For every service request and method, Precise for Microsoft .NET tracks and collects a comprehensive set of metrics, including response time, method invocation time, database (ADO.NET) invocation time, invocation count, and many others.

Precise for Microsoft .NET monitors various Microsoft .NET technologies and interfaces, including ASP.NET, ADO.NET, Web services, Microsoft .NET remoting, response time from Enterprise Services (COM+ components), MSMQ, and more. It can monitor Web applications as well as stand-alone Microsoft .NET applications.

## Precise: Optimizing .NET Applications

Precise provides IT with the information needed to resolve performance issues quickly, or proactively work to keep them from ever occurring in the first place.

### AUTOMATIC PERFORMANCE ANALYSIS

Precise for .NET comes with a knowledge base of .NET best practices. Built up over years of real world experience, it analyzes performance data and finds potential problems. Even simple recommendations of minor CLR configuration change can have a substantial performance impact. Precise for .NET can help identify class contention, report on exceptions thrown, and diagnose memory leaks.

### ACCELERATED PROBLEM RESOLUTION

To shorten the time it takes to find and fix performance problems, Precise for .NET provides a comprehensive dashboard that includes the top (slowest) executing service requests, SQL statements, and Web services. It also displays application availability, average response time, number of invocations, and SLA compliance status.

### PROACTIVE MANAGEMENT

With Precise, IT can detect and correct worrying trends before they have a chance to become a problem. Extensive reporting features in our Performance Management Database (PMDb) make it easy to proactively tune the performance of your .NET Application infrastructure.

### MONITOR YOUR SQL SERVER

SQL Server's integrated CLR allows complex stored procedures to run inside the database. Precise for .NET includes a SQL Server instance type that enables full performance management of .NET compatible stored procedures.

### TPM THROUGHOUT THE ENTIRE APPLICATION LIFECYCLE

Precise for .NET addresses the need to optimize application performance during the development, testing, and production phases of the application life cycle. This single solution can be shared by all stakeholders to simplify the process of identifying and communicating .NET performance problems.

## 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.



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[www.precise.com](http://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.