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# Learning More About HP LoadRunner Diagnostics

LoadRunner's diagnostics modules provide detailed performance information to help you rapidly identify and pinpoint performance problems in Siebel, Oracle, SAP, J2EE, and .NET environments.

This document provides a short overview of HP LoadRunner's diagnostics features. For more information, see the *HP LoadRunner Controller User Guide*.

## LoadRunner ERP/CRM Diagnostics

During a performance test, LoadRunner's diagnostics modules trace, time, and troubleshoot individual transactions across the Web, application, and database servers. You can drill-down from a slow end-user transaction all the way to the bottle necked method or SQL statement. The LoadRunner diagnostics modules enable organizations to:

- ▶ Trace the application components exercised by business processes.
- ▶ Rapidly isolate application components that have a significant impact on end-user experience.
- ▶ Provide developers with precise data on how to make performance improvements.

Such precision pinpointing of performance problems directly translates into significant business value:

- ▶ Quicker and more efficient performance testing cycles
- ▶ Decreased time to problem resolution by development

- ▶ Better performing applications that are optimized to meet the needs of the business

The diagnostics modules come with a set of customized Analysis reports. Using these reports, you can communicate your insights to developers and managers to accelerate resolution, while avoiding expensive hardware upgrades.

For details about configuring ERP/CRM Diagnostics Modules, see the relevant sections in the *HP LoadRunner Controller User Guide*.

## **Siebel Diagnostics**

Siebel Diagnostics provides performance breakdown of the Siebel application server layers. These graphs provide detailed information about the Siebel layers, areas, sub-areas, servers, and scripts which most commonly require optimization.

## **Siebel DB Diagnostics**

Many of the performance problems on Siebel systems are database-related. Siebel DB Diagnostics helps you rapidly identify and resolve database performance problems. You can view the SQLs for each transaction, identify the problematic SQL queries of each script, and identify at what point problems occurred.

## **Oracle 11i Diagnostics**

Oracle 11i Diagnostics helps pinpoint performance problems on Oracle NCA systems. The diagnostics information drills down from the transaction, to the SQL statements, and the SQL stages of each statement.

## **SAP Diagnostics**

SAP Diagnostics helps pinpoint performance problems on SAP application server systems. The diagnostics information is broken down from the transaction, into the dialog steps and server time components, and other associated data.

## Integration with HP Diagnostics

The HP Diagnostics integration with LoadRunner allows you to monitor and analyze the performance of Java 2 Enterprise Edition (J2EE), .NET-connected, SAP, Oracle, and other complex environments.

During a LoadRunner load test scenario, you can view HP Diagnostics data for the whole scenario or you can drill down to HP Diagnostics data from a particular transaction.

After you have run your scenario, you can use HP LoadRunner Analysis to analyze offline Diagnostics data generated during the scenario. For more information, refer to the *HP LoadRunner Analysis User Guide*.

Before you can access the HP Diagnostics UI from within LoadRunner, you need to provide LoadRunner with the information it needs to communicate with the Diagnostics components. For more information see the relevant sections in the *HP LoadRunner Controller User Guide*.

