

# OPTIMIZE CRITICAL BUSINESS PROCESSES

## MAKING THE MOST OF ENTERPRISE SOFTWARE

Organizations need enterprise software that is flexible enough to adapt quickly to changing business processes and powerful enough to accommodate rapid increases in users and application types. The SAP® LoadRunner application by HP helps organizations maximize the effectiveness of their enterprise software.



### The Benefits of Rigorous Testing

The goal of enterprise software is to facilitate and optimize business processes. But to do this, the software must itself be optimized to support the needs of those processes, and organizations must test the newly optimized software rigorously before systems go live. Software for a retail Web-commerce organization, for example, must be optimized and tested to ensure that it can handle not just event-based peak loads, such as a new product release, but also seasonal peak loads.

With the rigorous load-testing functionalities of the SAP® LoadRunner application by HP, organizations can deliver high-performing business processes, executing, upgrading, or modifying them on time and within budget.

### How SAP LoadRunner Works

SAP LoadRunner enables project teams to test, correct, and retest processes before they are delivered to their end users. With its thorough, integrated diagnostic and validation functionalities, SAP LoadRunner helps reduce slowdowns in development schedules, lowering the cost associated with such slowdowns.

To launch a new business process, for example, an IT project team might use SAP LoadRunner to validate and test the performance of the software that supports the process, as follows:

**1. Define the business process**

The team uses SAP LoadRunner to determine the optimum hardware and software platform for the business process.

**2. Develop scripts**

The team develops test scripts to “walk” the software through the screens and entries used by the business process. These scripts represent the activities of a virtual user.

**3. Expand the user load**

SAP LoadRunner can increase the virtual user load, simulating the peak loading requirements for this process.

**4. Evaluate results**

SAP LoadRunner measures the simulated performance against key performance indicators for the process and recommends necessary changes.

**5. Retest to validate**

The team reruns the test scripts in the modified environment to validate the effectiveness of the changes.

**Support for Production Environments**

SAP LoadRunner scales easily from small user environments to those that support tens of thousands of users with complex application needs. It can also measure the end-to-end performance of business processes, even when they cross between enterprises, as is typical in supply chain and demand chain business environments.

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## A Path to the Future

SAP LoadRunner is an important tool for companies that move to an enterprise service-oriented architecture (enterprise SOA), a framework for service-oriented computing. Enterprise services are more dynamic, and less predictable, than traditional applications. The compatibility of SAP LoadRunner with the SAP NetWeaver® technology platform and with enterprise SOA helps enterprises plan, deliver, and benefit from the newest classes of service-driven business processes.

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## Summary

The SAP® LoadRunner application by HP offers rigorous load-testing functionalities that help organizations test software-supported processes before they go live and maximize the effectiveness of their enterprise software.

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## Challenges

- Support the performance needs of software that supports business processes
- Optimize and test all applications before systems go live
- Reduce slowdowns in development schedules
- Lower costs associated with slowdowns

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## Supported Business Processes and Software Functions

- **Definition of the business process** – Evaluate the operations of the business process and determine the optimum hardware and software platform
- **Script development** – Develop scripts to “walk” the software through the screens and entries that will be used by the business process
- **User load expansion** – Increase the virtual user load to simulate peak loading requirements
- **Evaluation and modification** – Measure the simulated performance against key performance indicators and recommend any necessary changes
- **Retesting and validation** – Rerun the test scripts in the modified environment to validate the effectiveness of the changes

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## Business Benefits

- **Increased efficiency** resulting from rigorous testing of all applications before going live
- **Greater flexibility**, enabling organizations to adapt quickly to changing business processes
- **Reduced risk** of system failures at times of peak demand
- **Enhanced capability** to plan, deliver, and benefit from the newest classes of service-driven business processes

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## For More Information

Call your SAP representative or visit us online at [www.sap.com/usa/services/consulting/saptesting.epx](http://www.sap.com/usa/services/consulting/saptesting.epx).

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