



HP LoadRunner software for Mobile

HP LoadRunner software for Mobile is the industry-standard performance testing solution for services and applications. Drive load. Diagnose problems. Go live with no surprises.



Mobile users are extremely sensitive to the performance and reliability of mobile services. There is much evidence of dramatically reduced service consumption and associated decrease in revenues due to service-performance issues.

How can you be sure that your mobile services will perform and scale to the level required by your business? How can you reduce the risk of slow performance or catastrophic failure when deploying a new service or changing an existing service platform?

How much does system downtime cost? What is the impact to your revenue if customers are struggling with slow performance or poor service availability?

Mobile services rely on complex multi-technology platforms, integrating radio and IP networks, user applications and back-office systems. Each of those elements could be a potential point of failure if the entire service is not tested end-to-end prior to its deployment.

HP LoadRunner software for Mobile is a telco-grade solution for predicting system behavior and service performance against real-life load scenarios. It is the wireless protocol extension of the industry-leading HP LoadRunner software. HP LoadRunner for Mobile enables your organization to:

- Obtain an accurate picture of end-to-end service performance prior to going live.
- Verify that new or upgraded mobile services meet specified performance requirements.
- Identify and reduce performance bottlenecks during the deployment and operations lifecycle.

Ultimately, this allows you to improve time-to-market and generate revenue by accelerating the delivery of new wireless services and deploy changes to existing services. In addition, HP LoadRunner for Mobile helps you reduce the risk of production downtime and poor performance.

How it works

Using few hardware resources, HP LoadRunner for Mobile emulates thousands of concurrent users to simulate real-life workloads to virtually any client platform or environment. HP LoadRunner for Mobile stresses a service or an application from end to end—applying consistent, measurable and repeatable loads—then uses the data to identify scalability issues that would impact real users in the production environment. As it drives load against the system, HP LoadRunner for Mobile captures the end-user response times of key user-interaction sequences with the tested services to determine if required

Figure 1: HP LoadRunner for Mobile diagnostics functionality pinpoints code bottlenecks.

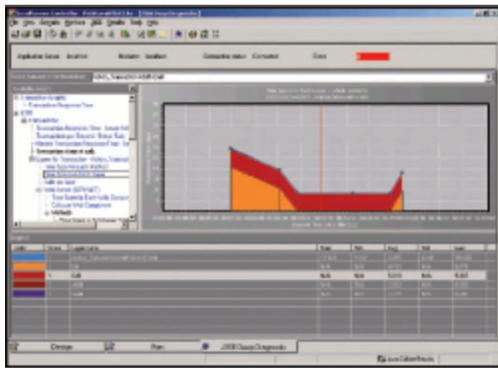
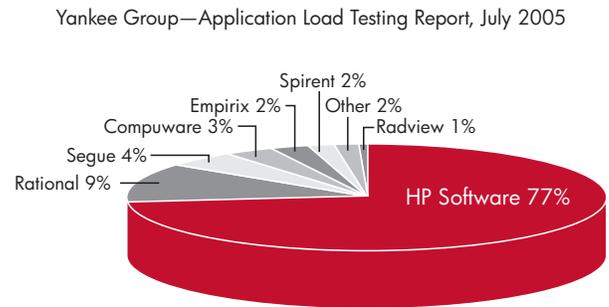


Figure 2: HP LoadRunner, known as Mercury LoadRunner at the time of this study, has 77-percent market share in the load testing market worldwide.



Features and benefits

- Shorten test cycles to accelerate delivery of high-quality services.
- Enable deployment of mobile services and network enablers that meet quality of experience, performance and reliability requirements.
- Automatically upload results into HP Quality Center to increase project control and synchronization.
- Integrate with HP QuickTest Professional software for Mobile to test real-device experience in load scenarios.
- Reduce hardware and software investments by accurately predicting required system capacity.
- Quickly and easily pinpoint end-user, system-level, and code-level bottlenecks.
- Synchronize with vendors with industry-standard HP LoadRunner test results.

levels of performance and reliability can be met. Non-intrusive, real-time performance monitors obtain and display performance data from every tier, server and system component, and diagnostics probes gather code-level data to isolate bottlenecks. This combination of end-user, system- and code-level visibility dramatically reduces time to problem resolution.

After the load test is completed, the analysis engine of HP LoadRunner for Mobile provides a single view of end-user, system- and code-level performance data. It includes a patented AutoCorrelation engine and scans all end-user, system and diagnostics data to provide the top 10 likely causes of system slowdown. This allows you to determine if performance goals have been met and if not, why not and who owns the problem.

Load generation, monitoring, and diagnostics for mobile service providers

HP LoadRunner for Mobile supports performance testing for the widest range of mobile and IP environments. It can test WAP, Multimedia Messaging (MMS), XHTML, HTML, WBXML, HTTP, Web Services, Client-Server, Citrix, Java, .NET and all ERP/CRM applications. HP LoadRunner for Mobile, with its complete offering of over 40 non-intrusive monitors into back-end systems like Siebel, Oracle® and SAP, offers a unique combination of both IT systems and mobile network systems end-to-end testing. HP LoadRunner for Mobile is a single solution for your entire range of mobile services and network architecture load testing needs, generating tests from real devices, simulations, systems components and even application servers outside the DMZ.

The performance lifecycle

To facilitate intelligent release decisions, HP LoadRunner for Mobile is integrated with HP QuickTest Professional (QTP) software for Mobile, HP Quality Center software, and HP Project and Portfolio Management (PPM) Center software. This suite lays the foundation for integrated release management, allowing you to make accurate, informed go-live decisions. Performance and availability management doesn't end when load testing is done. In fact, it begins when the service goes live. To facilitate the transition from delivery of a service to its operation in production, you can re-use HP LoadRunner for Mobile scripts within HP Business Availability Center software to monitor service performance, availability and service levels in production. Integrations both upstream into development and downstream into production make HP LoadRunner for Mobile a platform for performance engineering across the service lifecycle.

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