

LoadRunner Professional

Micro Focus® LoadRunner Professional software is the industry-standard software for performance engineering. Generate real-life loads. Identify and diagnose problems. Deploy with confidence.

Product Highlights

Understanding Application Performance

How do you know whether your mission-critical applications meet the performance and scalability requirements of your business? How do you decrease the risk of a failure when deploying to production? Are your applications performing optimally?

Enterprise applications are becoming increasingly complex. With modern applications, there are many moving parts that can easily become points of failure if not tested proactively to deployment. Platforms such as mobile, Cloud, and hybrid environments offer their own share of challenges. LoadRunner Professional software, used by thousands of business including some of the leading Fortune 500 companies around the world, is a comprehensive solution for testing system behavior and performance. It provides an efficient and robust means to verify that your application's architecture is built for more efficient performance and reliability. LoadRunner Professional helps you:

- Test a broad range of applications, including the latest Web and Mobile technologies, ERP/CRM applications, and many legacy systems.
- Run high-scale tests using minimal hardware, including any mix of physical and virtual environments, including public Cloud infrastructure.
- Identify end-to end performance bottlenecks using advanced monitoring and analysis tools, and ensure that new

or upgraded applications meet the performance requirements of your business.

The Inside Story on LoadRunner Professional

With an intuitive record and playback mechanism, including the patented TruClient technology, LoadRunner Professional reproduces real business processes that a user would perform in production. These scripts can then be easily modified to emulate real user behavior.

LoadRunner Professional then emulates hundreds or thousands of concurrent virtual users, with minimal hardware, to apply accurate workloads to any application. As it drives load against the system, LoadRunner Professional captures end-user response times for business processes and transactions to determine whether the application can meet the required service-level agreements. Non-intrusive, real-time performance monitors from Micro Focus SiteScope captures real-time performance data from every component of application infrastructure, while Micro Focus Diagnostics collects application-layer and code-level performance data. By leveraging Micro Focus Network Virtualization and Micro Focus Service Virtualization, you can eliminate and control unknown variables and isolate performance risks.

After the test completes, the LoadRunner Professional analysis engine provides a single view of end-user response time, infrastructure-level and code-level performance; and includes the patented auto-correlation engine to identify the most likely causes of performance issues.

[Click here to learn how LoadRunner Professional can help you deliver high-performing applications.](#)



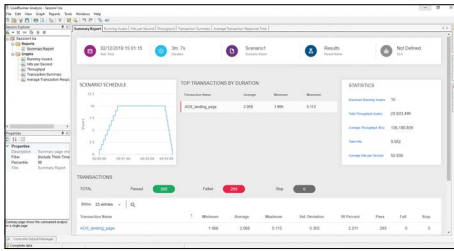


Figure 1. LoadRunner Professional Analysis: A view of cross-results trending capabilities, showing a comparison of increased system scalability and optimized response-time performance

Key Features

Test Against a Broad Range of Applications and Protocols

LoadRunner Professional supports performance testing for a wide range of application environments and protocols, including Web/Mobile, Webservices, MQ, HTML5, WebSockets, AJAX, Flex, RDP, Database, Remote Terminal Emulators, Citrix, Java, .NET, Oracle, and SAP. An easy-to-use scripting and debugging engine leverages data format extensions and correlation studio to reduce the amount of time spent scripting.

Simplify Analysis and Reporting

With its Bubble-Up analysis capabilities, LoadRunner Professional helps you quickly determine which transactions passed or failed the set service-level objectives, as well as some potential causes of failure. A strong analysis engine helps you slice and dice data in many ways to easily pinpoint the root cause of the problems. You can also use templates to generate multiple custom reports to serve the needs of various stakeholders.

Record and Replay a Variety of Web 2.0 Technologies

TruClient technology is a browser-based virtual user that supports next-generation Web-based applications. TruClient is embedded in the browser and provides interactive recording

and scripting, dramatically reducing the amount of programming required. This gives you the ability to various levels of user activity, from the GUI level down to the transport and socket level, depending on the skill set available and the level of customization required. TruClient supports most AJAX applications, regardless of the framework used; making testing of Web 2.0, and Mobile Web applications faster, easier, and more comprehensive.

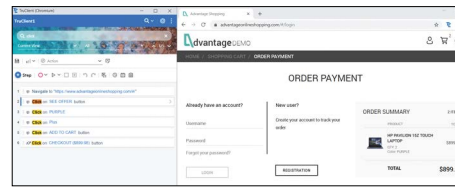


Figure 2. The patented Micro Focus TruClient technology provides a browser-embedded, interactive way of scripting next-generation Web-based applications

Scale Up Tests Leveraging the Public Cloud

LoadRunner Professional supports testing of applications on all platforms. Whether the application is running in the cloud or in-house, on bare-metal or virtual machines, or in a hybrid environment; LoadRunner Professional can help test the application before it goes live, so that you can deploy with confidence.

With cloud testing, you can quickly and elastically scale up tests to meet the demands of your customer-facing business applications, reducing the cost and overhead of managing dedicated machines. LoadRunner Professional now provides the ability to seamlessly leverage public cloud infrastructure to deploy load generators (LGs) to scale up and down based on your performance testing needs, without complicated network configuration.

The deployment of cloud-based LGs is built into LoadRunner Professional, significantly reduces provisioning time, while maintaining

security and control. You can add multiple cloud accounts and manage network profiles for connecting to your various LGs. You can also secure host communications using public/private key pairs, and provision hosts using standard templates or by creating your own. Tests can be executed with any mix of load generators within your network or in the public cloud in the cloud. We support various cloud environments such as Amazon EC2 or Microsoft Azure.

LoadRunner Professional is now available in the Microsoft Azure Marketplace and Amazon AWS, providing you the flexibility to run your load and performance testing from the cloud, reducing infrastructure costs to execute your tests.

Deliver Enterprise Load Generation, Monitoring, and Diagnostics

LoadRunner Professional can generate realistic loads scaling up to hundreds and thousands of virtual users (VUs) to reproduce realistic conditions. LoadRunner Professional integrates with SiteScope to provide more than 60 non-intrusive monitors to measure the impact of load testing on every component of the application. LoadRunner Professional also seamlessly integrates with Diagnostics, allowing you to drill down into applications level issues to find the root cause of problems across heterogeneous application stacks; including J2EE, .Net, SAP, Oracle and SOA based applications.

Mobile Application Testing

LoadRunner Professional is the most complete solution for mobile application performance testing; including Mobile Web, Native and Hybrid applications. The TruClient—Mobile Web protocol supports the rapid testing of browser-based mobile applications, and the TruClient—Native Mobile protocol provides support for native, Web and Hybrid applications. Micro Focus solutions for mobile

testing can be used to test mobile applications against any platform and OS. LoadRunner Professional seamlessly integrates with **Network Virtualization** enabling realistic network conditions during each test.

Mobile Application Recording Options

When it comes to Mobile testing, one method does not fit all. Whether you have access to a physical device, application or device emulator, or traffic capture from any available Mobile device cloud; the methods used for capturing application usage will vary with each deployment model. That is why LoadRunner Professional includes multiple methods for recording Mobile application scripts, to meet the needs of any Mobile development project. Virtual User Generator supports the following Mobile application scripting methods:

- Server-side traffic capture
- PCAP traffic recording
- Mobile Device Emulator
- Proxy recording
- TruClient—Mobile Web (for mobile-web applications)
- TruClient—Native Mobile (for native, browser-based, or hybrid mobile applications)

Network Virtualization Support

Mobile application performance is critical to the success of a business. As much as 70%

of the application response time is caused by network conditions, and optimizing applications to run on Mobile is impossible without including realistic network conditions in each test. The impact of network conditions isn't only on Mobile users, but on the entire application infrastructure. That is why LoadRunner Professional seamlessly integrates with Network Virtualization to capture and include realistic network conditions during each test.

Continuous Testing Support

INTEGRATIONS FOR DEVELOPERS

To enable load testing earlier in the application lifecycle—which is particularly relevant in agile environments—LoadRunner Professional provides IDE to integrate with leading development environments Visual Studio and Eclipse; allowing developers to run unit tests using the LoadRunner Professional engine. This integration lets Developers create LoadRunner Professional scripts directly within the IDE, and contribute to performance testing efforts earlier in the application lifecycle. LoadRunner Professional also supports execution of JUnit, NUnit and Selenium scripts as part of the test scenario, allowing you to leverage Unit tests the developers are already creating. LoadRunner Professional integrates with Git Hub too, allowing you to upload scripts from a Git repository.

In addition, the Diagnostics Profiler software allows Developers to view and debug performance issues at the code level within their test environment.

CONTINUOUS DELIVERY

LoadRunner Professional provides a plugin to Jenkins; this add-in executes LoadRunner Professional scenarios and reports pass/fail status at the end of a build job. There are also APIs for automating the analysis and reporting of completed tests.

COMMUNITY CONTENT

To connect users within the largest performance engineering community in the world, LoadRunner Professional integrates with the [AppDelivery Marketplace](#). The AppDelivery Marketplace provides a single portal for Micro Focus performance testing users and partners to share and distribute content with the entire user community, who can access and automatically install Function Libraries, Correlation Rules, Data Format Extensions and other add-ins directly from VuGen.

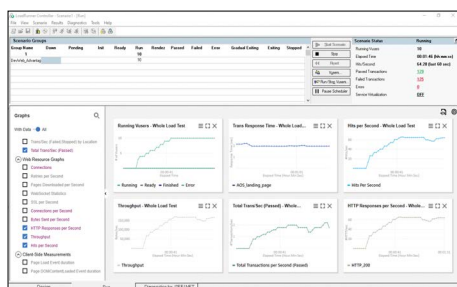
ADDITIONAL MICRO FOCUS APPLICATION LIFECYCLE INTEGRATIONS

To facilitate intelligent release decisions, LoadRunner Professional is integrated with industry-leading quality software, such as Micro Focus Quality Center (QC), and Application Lifecycle Management (ALM). Leveraging these complementary products together with LoadRunner Professional provides a comprehensive solution for managing release risk, so you can make informed decisions prior to going live.

Complete integration with Micro Focus Unified Functional Testing (UFT) and LeanFT helps bridge the functional testing gap and eliminate the risk caused by external dependencies component services. API tests authored in UFT can be executed directly in the LoadRunner Professional Controller as part of a performance test.

INTEGRATIONS WITH PRODUCTION

Application-performance and service-level management doesn't end when load testing is done. In fact, service-level management begins when the system goes live. During the transition from prerelease to production, you can use LoadRunner Professional scripts within Micro Focus Business Systems Management (BSM) software to monitor application performance, availability, and service levels in production under real-user workloads. Common technologies in Micro Focus products such as Diagnostics and SiteScope, which integrate



with both LoadRunner Professional and BSM, help bridge the gap between testing and production. These integrations, both upstream to QA and downstream into production, make LoadRunner Professional an ideal solution for performance engineering across the application lifecycle.

Key Benefits

- Reduces cost of application downtime related to performance issues in production
- Supports performance testing of new technologies together with your existing, legacy applications
- Accurately tests a mix of mobile and Internet users, reducing the risk of performance bottleneck when bringing new mobile applications to production
- Decreases the risk of deploying systems that do not meet performance requirements
- Reduces hardware and software costs by accurately predicting application scalability and capacity
- Helps you establish intelligent service-level agreements before applications go live
- Shortens test cycles to accelerate delivery of high-quality applications
- Pinpoints end-user, system-level, and code-level bottlenecks rapidly and with ease
- Reduces the cost of defects by testing earlier in the application lifecycle

LoadRunner Professional Helps Detect Pre-Production Issues
“With the help of LoadRunner Professional through load testing in general we have found many issues that we would not have been able to handle in production without loss of service and business.”

IT MANAGER

Large enterprise financial services company
(TVID: F3E-C13-172)

See what other customers are saying about the new [Micro Focus LoadRunner Professional software](#).

About Micro Focus Software Application Delivery Management Solutions

Software Application Delivery Management solutions help ensure modernization initiatives deliver business outcomes instead of failing under the burden of outdated, legacy delivery mechanisms. Where rival solutions mistake the software development lifecycle for a total picture of the application, Micro Focus sees core delivery in the context of the complete application lifecycle—from business idea through retirement. Furthermore, by providing unified management and automation solutions, Micro Focus offers customers not simply more tools and integrations, but greater simplicity. The result for enterprise application teams is improved predictability, repeatability, quality, and change readiness in both the core and complete lifecycle.

Micro Focus Performance Testing Offerings

Performance Testing from Anywhere, for Any Size and Any Type of Environment

The agility in how business wants IT to deliver has drastically increased. Micro Focus’s objective is to provide a menu of options on performance testing solutions to support any type of environment, application, methodology, maturity, and consumption model that the customer have to allow them to accelerate the delivery applications that perform with quality.

Micro Focus provides high-quality software and services that address all aspects of your software application lifecycle needs. With Micro Focus, you have access to standards-based, modular, multiplatform software coupled with global services and support.

To generate real-life loads and identify and diagnose problems, visit: [software.microfocus.com/software/performance-testing](https://www.microfocus.com/software/performance-testing)

For an overview of Micro Focus software services, visit: [microfocus.com/software/services](https://www.microfocus.com/software/services)

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