

LoadRunner Family for SAP Solutions

Whether you need to test performance of SAP S/4HANA solutions at a massive scale or require a central solution for cross Agile and DevOps teams, the OpenText LoadRunner Family covers all SAP technologies for proactive, expedited, and continuous testing ensuring high-performing applications.

Product Highlights

SAP may already be long established in your organization, delivering key business processes and solutions that keep you up to date with the latest updates. Alternatively, you could be migrating to a new cloud-based system or moving to S/4 HANA. Regardless, you need to ensure your business processes can be completed without performance bottlenecks when your SAP system is subjected to real-world usage. Performance testing during development ensures issues are caught before production avoiding failed deployments that result in a slow, unresponsive system, upset users and costly rework.

With the LoadRunner Family for SAP performance testing solutions, your SAP delivery team has access to the right solutions to answer these challenges in a way that suits their needs; be it highly scalable cloud-based, simple and local team-based or as part of the shared Center of Excellence for Quality. The LoadRunner family isn't exclusive to developers and heavy scripting, most of the complex work like correlations and parameterization is done for you and a no-code interface option is available for any user. With the LoadRunner family of solutions, you know that whatever SAP solution you are adopting and however you are deploying it, you have access to the required market leading technology to cover what you need.

Whether you have Business Processes that span over multiple applications and technologies, not just SAP, or you need support for multiple API layers in combination with a GUI, the LoadRunner family of solutions has you covered with the widest technology coverage in the Load testing tool market. You can be sure your LoadRunner solution works the way you need it to, the LoadRunner family provides flexibility and scalability through its different performance engineering ecosystem options: to have everything on-premises, in the Cloud with no hardware requirements on you or a hybrid solution.

The LoadRunner family of solutions are market leading and innovative, always looking to break new ground in performance testing, increasing value to customers and quickly adapting to new challenges. We've built a solid foundation through years of experience in the industry and leveraged our large customer base's shared experiences and wealth of knowledge to continuously innovate and provide the best solutions on the market.

Key Features

SAP and Non-SAP Technology Support

With the way SAP has grown and innovated over the past few years, it's likely that just testing SAPGUI is no longer sufficient. The entire LoadRunner family can test well beyond SAPGUI in the modern SAP and non-SAP

Key Benefits

- Works with the complete set of SAP technologies like: S/4 HANA, SAPGUI, SAP WebGUI, Web Dynpro, Fiori & SAPUI5, IDoc, RFC, OData
- Run tests from multiple locations using public cloud, private cloud, or on-premises load generators
- Integrate performance testing into your development pipeline with CI/CD
- Apply real-world usage patterns to your SAP and non-SAP applications, including network conditions
- Code-less scripting allows for fast easy and flexible scripting of Browser based Applications
- Save time and effort by reusing your OpenText Unified Functional Testing Scripts to conduct SAP load testing
- Powerful Analytics enables understanding of performance characteristics, identifying bottlenecks and root causes
- Smart shared reports and dashboards let Agile and DevOps teams work collaboratively, expediting the resolution of performance issues

technologies, be it Fiori/SAPUI5, S/4 HANA, S/4 HANA Cloud, SAP WebGUI, SAP Mobile Platform, Web Dynpro, OData, RFC, IDoc or just straight HTTPS, we have you covered.

Outside of SAP we provide true enterprise coverage from the latest Mobile applications to legacy applications, from Citrix to RDP and from Java to .NET. All in all, we cover over 50 specific protocols and technologies.

No-Code and Low-Code Scripting

Shift-Right with LoadRunner with our alternative to creating the traditional script-based tests and instead use our easy to understand, codeless scripting solution, TruClient. Appearing inside the browser, this solution enables you to record user interactions and edit in the same place creating easy to understand and modify, no-code script. On playback you get an accurate picture of real-world usage. This LoadRunner family no-code and low-code scripting solution can reduce scripting time by 50% and remove the knowledge barrier meaning anyone can create test scripts without being an expert.

Worldwide Cloud Scalability

Building real-life performance scenarios that reflect thousands or millions of users isn't always cost-effective or feasible. The LoadRunner family of solutions are designed to handle massive scale, and let you realistically test with over five million virtual users, from different geographic locations, all in a matter of minutes. Flexible licensing models are available to support continuous testing needs through the Virtual User license and consumable models with the Virtual User Hours license, allowing you to scale up or down to meet your critical testing needs. Using a cloud-based solution reduces your total cost of ownership and effort investment. For example, there are no overhead costs or ongoing maintenance with LoadRunner SaaS as OpenText will manage it

for you ensuring you have more time to focus on delivering successful SAP initiatives. You can easily distribute virtual users to multiple locations using AWS, Microsoft Azure, or Google Cloud Platform cloud locations; private cloud; or your own on-premises load generators.

Integrations for Fast-Moving Agile and SAP DevOps Teams

SAP development and operations teams bring their own areas of expertise and related technologies which can be an advantage in the load testing process. Incorporating application monitoring allows you to take a centralized approach to data collection and connect the dots. LoadRunner Cloud has a rich selection of third-party tools it integrates with: continuous integration (CI) servers such as Jenkins, Azure DevOps, Bamboo, and AWS CodePipeline; APM tools such as SiteScope, Application Insights, AppDynamics, Dynatrace, New Relic; and Git, Splunk, Network Virtualization (NV), and WebPageTest. These integrations offer

flexibility and allow your agile testing and development teams to run performance tests as part of their builds in an easy, automated manner. Equally, your test scenarios and scripts should easily adapt to minimize rework. LoadRunner Cloud allows you to leverage existing scripts created in best-of-breed scripting applications such as LoadRunner Developer, VuGen, TruClient, and DevWeb while also supporting third-party open source tools such as JMeter, Gatling, and Selenium.

Realistic Network Conditions

Network conditions are a key factor in influencing your users overall SAP interaction experience. You need to discover how network constraints affect communication between end users, the application, and its dependencies. Network Virtualization is integrated with the LoadRunner Family. Network Virtualization lets you apply accurate network conditions during testing to uncover any performance issues. The results are displayed in real-time

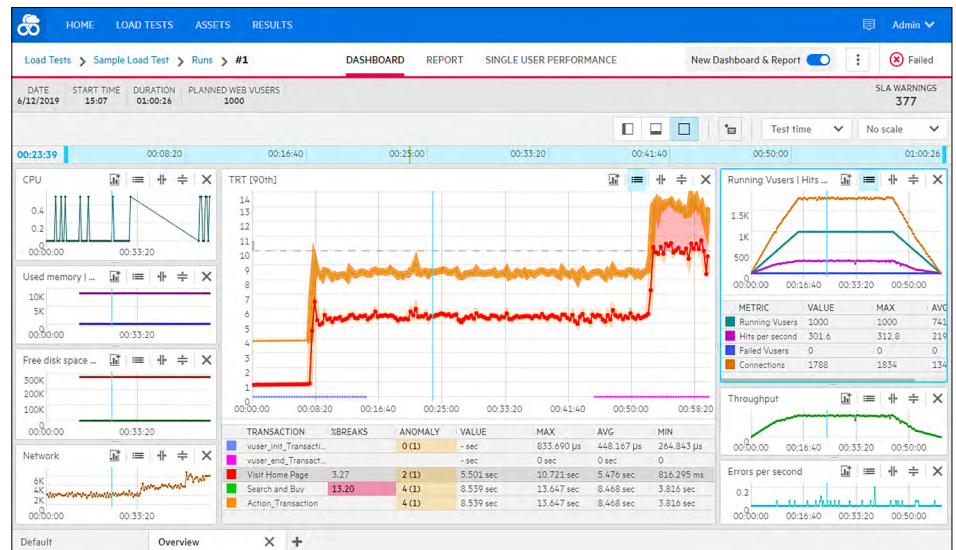


Figure 1. An intuitive dashboard provides a complete, real-time network breakdown to isolate and remediate application performance bottlenecks.

“One of the key benefits of using Micro Focus (now part of OpenText) LoadRunner Cloud is that we can automate both testing and result generation. This enables us to save time and leaves us free to concentrate on other areas.”

VIVEK KOUL
Performance Engineering Manager
McGraw-Hill

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and are summarized in comprehensive client, network, and server-side breakdown reports, along with code level optimization recommendations to quickly find and fix problems.

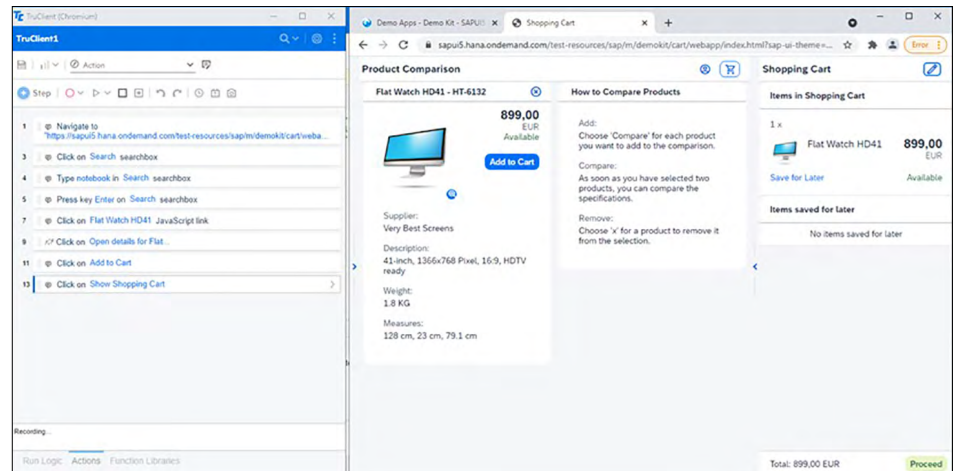
Powerful Analytics

Understanding your test results can be challenging as you pour through data trying to interpret the results. Automated and graphical analysis can significantly cut down on the time you spend identifying problems. Ultimately you want to identify problems faster, and with LoadRunner solutions, you can use predictive analytics to help you understand anomalies and problems in real time. With the benefit of intuitive analytics, you can easily interpret test results to identify the performance profile of the application and determine your mitigation options. During the process, your LoadRunner solution captures metrics on how your application behaves under different virtual user loads. This allows you to compare multiple metrics from both current tests and past tests as well as compare existing test runs to a benchmark.

SAP Performance Engineering with the LoadRunner Family

SAP teams lead the way by adopting a proactive, continuous performance engineering approach to ensure that the deployed SAP system delivers an end-user experience to be proud of.

The LoadRunner Family is an integrated set of enterprise-grade performance engineering solutions that work independently or in a combined fashion. With any solution, you can



confidently test complex load, stress, and performance scenarios across legacy, website, and mobile applications—while benefitting from shared capabilities and common technology. Ensuring that tools are the right size for different users while exploiting test reuse, and managing or delivering shared infrastructure, helps you develop a performance engineering ecosystem for success. The LoadRunner family includes:

- **LoadRunner Cloud**—cloud-based performance testing for extreme scale and flexibility.
- **LoadRunner Professional**—versatile and comprehensive performance testing for co-located teams.
- **LoadRunner Enterprise**—collaborative performance testing platform for globally distributed teams.

- **LoadRunner Developer**—shift-left performance testing embedded throughout the development lifecycle.

Don't make quality an afterthought. Utilizing the LoadRunner Family is an easy and cost-effective way to incorporate robust SAP and non-SAP, cloud, mobile, and web load testing into the Agile lifecycle. You can work the way you need to with both on-premises or cloud options to dramatically reduce the amount of time and skill required to create scripts and execute tests.

Learn more at
www.microfocus.com/en-us/industry/solutions-for-sap-modernization
www.opentext.com