



HPE LoadRunner and HPE Performance Center with HPE Network Virtualization

Improve the performance of mobile apps
through effective testing



Demand for anywhere, anytime access to information has given rise to the mobile wave. As mobile applications continue to evolve into significant competitive differentiators, businesses are challenged to evolve continually and deploy applications that meet or exceed user expectations.

Performance testing is a critical step in the delivery of enterprise mobile applications. Because mobile applications have unique performance profiles, accurate performance testing can be challenging and elusive. Often, performance testing fails to incorporate the significant impact that mobile applications can have on the overall enterprise system. And when teams conduct mobile performance testing of their mobile applications, they often do not factor in the impact that the network can have on the user experience.

In the rush to create and release mobile applications, you should not overlook the effect of dynamic mobile network conditions on user experience. Deploying applications without testing against real-world network conditions cannot be an option—users should not be real-world testers, otherwise revenue, productivity, and brand image are at risk.

HPE solves the mobile testing problem with a comprehensive solution for testing the performance of mobile applications. The solution is built with a combination of the tried and tested capabilities of HPE LoadRunner software and HPE Performance Center software, along with HPE Network Virtualization capabilities.

The mobile performance testing solution of HPE includes two new protocols:

- **TruClient—Mobile Web:** Record user activity in browser-based mobile applications using TruClient technology. Client application: browser based mobile version of a web site.
- **TruClient—Native Mobile:** Record user activity in native and hybrid mobile applications using TruClient technology (Requires HPE Mobile Center). Client application: native or hybrid mobile application.

HPE LoadRunner and HPE Performance Center mobile testing protocols enable comprehensive performance testing of mobile applications for most mobile platforms—Android, iPhone®, Windows®, and others. Using the mobile protocols, the performance testing team is able to capture mobile traffic and generate realistic mobile load on the system under test.

Features and benefits

HPE Network Virtualization, which integrates seamlessly into HPE LoadRunner or Performance Center, enhances test accuracy by incorporating real-world network conditions into the load and performance test environment, ensuring that the test results are more reliable and accurate. From within the familiar HPE software interface, you can leverage HPE Network Virtualization to:

- Enable each load generator (LG) to emulate multiple different network location's transaction response time and reduce reliance on remote LGs
- Aggregate test results into a single database for ease and completeness of analysis
- Extend testing scripts with a single click
- Automate reporting and analysis for performance engineers, owners of lines of business, and other business constituents

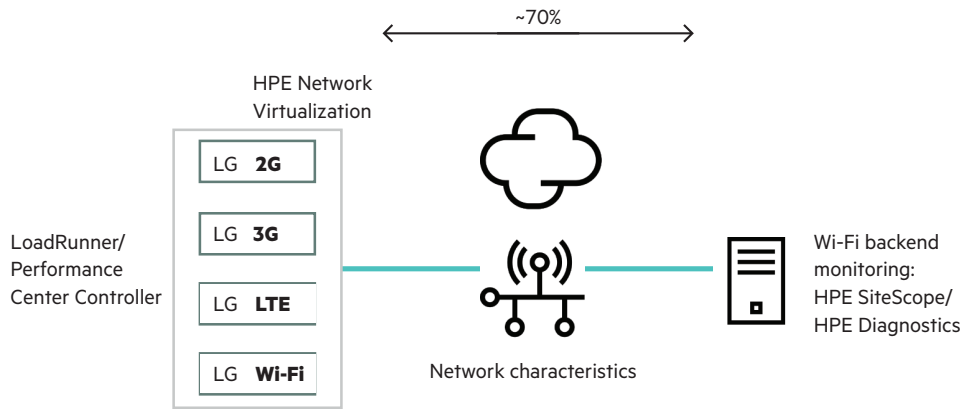


Figure 1. Virtualize network conditions

HPE Network Virtualization enables an effective engineering methodology for application performance, providing the capabilities to discover real-world network conditions, virtualize those conditions in the test environment, analyze test results to isolate potential bottlenecks, and automatically deliver custom performance optimization recommendations. It provides:

- **NetworkCatcher:** The ability to automatically gather real-world network conditions, collecting interval statistics that include bidirectional bandwidth, latency, jitter, and packet loss conditions
- **Global Library:** Access to HPE's Global Library of mobile and broadband conditions provides up-to-date average, best-case, and worst-case network conditions from thousands of cities worldwide
- **HPE Analytics:** Highly accurate, deep-dive analytics, that provide

location-specific performance information, including identification of poorly performing business transactions and the root cause of performance issues

- **HPE Predictor:** Robust reporting and filtering of aggregated test data to analyze service levels from a per location, per connection type or per user segment perspective

HPE Network Virtualization features easy configuration and use. It requires no script editing and places no limits on test scheduling. In addition, test results and data are automatically stored within HPE results files and segregated by emulated location for precise, actionable analysis.

The combination of HPE LoadRunner or Performance Center and HPE Network Virtualization is the path to robust, reliable, and accurate mobile performance testing.



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