

# HP Network Virtualization for Mobile



Network virtualization for software testing



HP Network Virtualization for Mobile is the only network virtualization solution designed specifically for the unique requirements of mobile app testing. This field-proven HP solution reduces the risk of poor mobile performance and helps your organization test, validate, and optimize the performance of your mobile apps before deployment.

## Mobile network optimization has never been easier

Mobile is a critical channel for customer communication and represents a significant competitive advantage in today's always-on, always-connected world. But with mobile, you only have one chance to make a first impression, and end-user patience is waning.

Just 250 milliseconds of delay can negatively impact your revenue, productivity, customer loyalty, and brand. Your business cannot afford to take that chance. With HP Network Virtualization for Mobile, you have a proven technology that has been shown to reduce the occurrence of performance incidents by more than 25%.

Built on the HP Network Virtualization engine, HP Network Virtualization for Mobile bridges the gap between development and deployment by enabling your mobile application development team to fully and accurately assess the behavior and impact of the network on mobile apps before they are introduced to end users. By virtualizing real-world mobile network conditions within testing environments, your test results are more reliably predictive of how an application will behave for end users.



HP Network Virtualization for Mobile allows tests to be managed and results analyzed from any laptop or Wi-Fi-connected mobile device. The software can import real-world mobile network profiles captured by HP Network Capture or provided by the HP Network Virtualization Library of mobile and broadband network conditions.

The robust analytic capabilities in HP Network Virtualization for Mobile provide deep-dive root cause analysis of performance bottlenecks, a mobile performance scorecard, and automated optimization recommendations that have been proven to improve mobile app performance by more than 40%.

### Mobile profiles

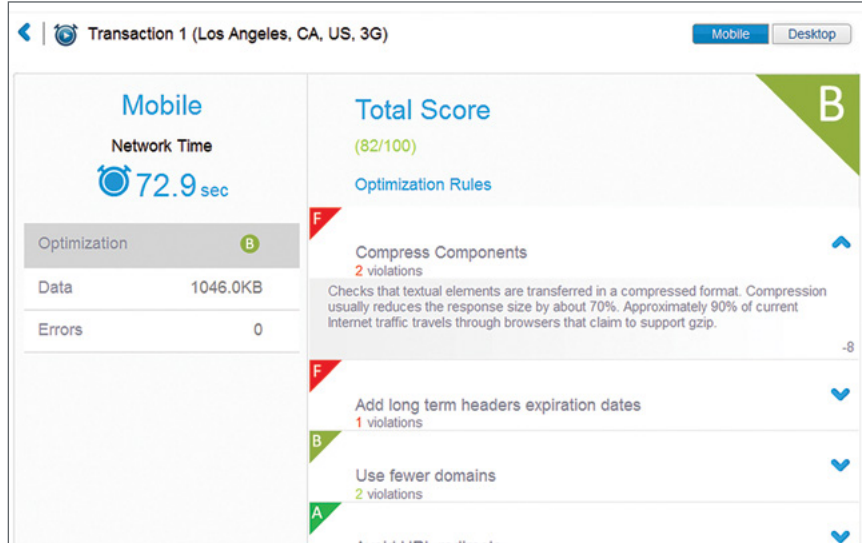
The HP Network Virtualization Library provides a library of real-world mobile and broadband network conditions.

The screenshot shows a three-step wizard titled "Import Profile". Step 1 is "From - To" with the value "Chicago, IL, US - Los Angeles, CA, US". Step 2, "Connection Properties", is the active step and contains three sections: "All Technologies, Carriers, Times".

Technology	Carrier	Time
WiFi	AT&T	Business hours
2.5G	Sprint	Off hours
2.75G	T-Mobile	
3G	Verizon	
3.5G	Other	
3.75G		

### Transaction response times

HP Network Virtualization for Mobile measures and scores transaction response times.



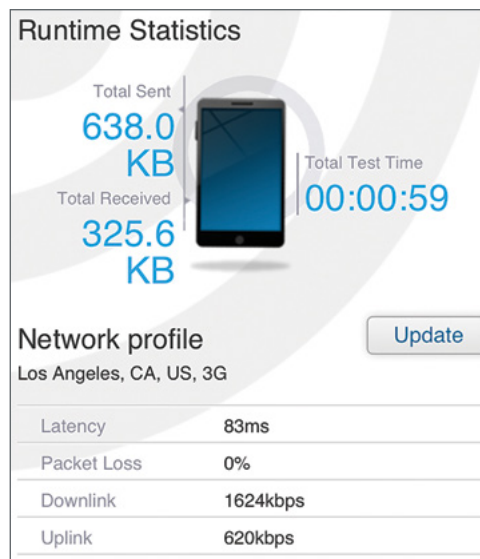
## Why HP Network Virtualization for Mobile?

Because over 70% of the performance of a mobile app is dependent on the network, your organization must consider the effect of the mobile network on the end-user experience before an app is deployed. Every second of delay increases user abandonment, sends traffic to competitive sites and applications, and decreases the likelihood those users will return.

By virtualizing real-world mobile network conditions in the test environment, performance test results are reliably predictive of actual application behavior. You can test, validate, remediate, and achieve mobile app optimization before deployment to verify that your back-end capacity and end-user experience requirements are met before deployment.

### Runtime statistics

HP Network Virtualization for Mobile provides total control and visibility over mobile network conditions and usage.



## Key features

HP Network Virtualization for Mobile delivers capabilities designed to improve your organization's ability to create a reliable mobile app testing environment, analyze performance test results, and take immediate and effective action to both remediate problems and optimize mobile app performance. Key features of HP Network Virtualization for Mobile include:

### Multi-flow capability

Because mobile network conditions are dynamic and vary by carrier, location, and time of day, it is essential for testing environments to accurately recreate multiple mobile network scenarios in order to analyze app performance and determine how network conditions affect different mobile users. The multi-flow capability in HP Network Virtualization for Mobile allows you to define a mobile test scenario that simultaneously emulates multiple user locations, each with its own unique set of virtualized mobile network conditions.

### Decode HLS streams

Delivering streaming video across mobile networks is challenging because constantly changing conditions can impact the user experience. As a result, organizations are turning to HTTP Live Streaming (HLS), which supports multiple alternate streams to be delivered at different bit rates and enables client software to intelligently switch streams based on changes in network bandwidth. HP Network Virtualization for Mobile can decode and analyze HLS streams as a standard part of its HTTP analysis capabilities.

### HP Application Performance Analytics

As a standalone analysis engine, HP Application Performance Analytics allows your testers to analyze all HP Network Virtualization files. In addition, HP Application Performance Analytics supports standard PCAP files, extending deep-dive analysis capabilities to those PCAP files generated by other applications.

### Enhanced reports

New reports that detail resource breakdown, endpoint latencies, and analysis of secure HTTP communications provide insight into latency for each host and "top-talker," so your testers can now verify that tests are routed correctly and ensure they are aware of all resources or hosts.

### Remote operation

Emulation control, packet capture, and statistics can be managed and viewed via a REST-based API and CLI. Access to HP Network Virtualization for Mobile is not restricted to a single workstation as it is specifically designed to operate in a shared testing environment, with multiple users accessing the technology at different times.

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