

Mobile Performance Testing Foundation Service

Accelerate and automate your mobile application performance testing.

Mobile devices now reign supreme. 'There is an app for that' moved from slogan to reality and even corporate IT users are abandoning traditional devices such as PCs and laptops in favor of smartphones and tablets, demanding the same experience from their corporate applications that they have in their private lives. These trends open up tremendous opportunities for IT to enhance user productivity, improve timely access to information, and reinvigorate the experience—often perceived as dull—that users have with IT. But they are not without their challenges: application development and QA teams need to keep up with this rapid rate of growth and ensure the performance and reliability of their applications.

Micro Focus® Mobile Performance Testing Foundation Service from Micro Focus Professional Services helps you rapidly ramp up your mobile performance testing solutions (Micro Focus Mobile Center, Micro Focus LoadRunner/Performance Center) combined with Micro Focus Network Virtualization technology and our unparalleled expertise.

Overview

Mobile Performance Testing Foundation Service gets you started using Micro Focus performance testing solutions for mobile applications quickly and effectively so that you can begin to reap the benefits early.

Micro Focus Professional Services works closely with your test/QA leads and mobile subject matter experts (SMEs) to implement a mobile performance testing framework. Our primary mobile testing focus is to enable you to accurately test mobile application performance under varying loads and network conditions, and deliver high-performing mobile applications.

Key Features

The framework addresses mobile application performance testing by focusing on three core capabilities:

- Generating the volume of transactions that the application and its back-end systems are expected to handle
- Simulating realistic mobile carrier network conditions over which information is exchanged between the devices and the application
- Measuring the end-user experience when the server application is subjected to various load conditions

Mobile Performance Testing Foundation Service offers a proven approach that gives you the tools and processes to control all elements of mobile performance testing. With accurate mobile testing results, you will be able to make the right decisions regarding

Key Benefits

- **Ensure application performance:** Being able to test your application's performance in the lab allows you to detect and fix any performance bottlenecks prior to release.
- **Accelerate time-to-value Mobile Performance:** Testing Foundation brings to you the years of experience that Micro Focus Professional Services has in setting up mobile performance testing frameworks.
- **Increase quality:** First impressions are critical, and releasing an application that underperforms—or worse, becomes unusable under load conditions—will inevitably result in users instantly losing confidence in your ability to deliver a quality service.

capacity planning, application design, and architecture. Identifying bottlenecks and how they impact the end-user experience will enable you to fine-tune the end-to-end system for optimal performance throughout the iterative testing process.

This service includes:

- Installation and configuration of any packages required for the integration of Mobile Center with existing and supported load testing and mobile functional testing software
- Installation and configuration of Network Virtualization solution with LoadRunner and Performance Center
- Installation and configuration of Mobile Center (if purchased)
- Application analysis, capture of performance requirements, and mobile performance test plan creation
- Creation of one (1) automated performance testing script
- Creation of one (1) automated mobile device functional testing script (using Mobile Center and any supported functional testing tool)
- Creation of up to two (2) performance testing scenarios with various network impairment conditions using Network Virtualization if available
- Execution of up to two (2) runs per load scenario
- Results collection and analysis
- Hands-on mentoring throughout all testing activities

The Technology

While conducting performance testing on mobile applications using thousands of real mobile devices and real network providers is impractical, simulating the same conditions can easily provide a wealth of valuable and

actionable information at a fraction of the cost. Using LoadRunner or Performance Center, mobile applications can be put under stress or load conditions. At the same time, Network Virtualization technology—integrated with the mobile testing framework—allows you to simulate network conditions such as bandwidth, latency, and packet loss. Together, they combine to provide an accurate real-life simulation by incorporating real-world network conditions into the load and performance test environment. You may further augment the testing process with Mobile Center, mobile devices and applications testing solution, which enables you to use a small number of real mobile devices that can act as a control group in conjunction with the simulated environment, providing an even higher degree of accuracy in measuring the end-user experience.

Key Benefits

Ensure Application Performance

Being able to test your application's performance in the lab allows you to detect and fix any performance bottlenecks prior to release. It enables you to be confident that your application will meet its requirements and deliver to your users the experience they want and expect.

Accelerate Time-to-Value

Mobile Performance Testing Foundation brings to you the years of experience that Micro Focus Professional Services has in setting up mobile performance testing frameworks. This eliminates the burden of a learning curve, allowing you to focus on learning from the experts and start reaping benefits early while saving you time and money.

Increase Quality

First impressions are critical, and releasing an application that underperforms—or worse, becomes unusable under load conditions—will inevitably result in users instantly losing

confidence in your ability to deliver a quality service. Delivering applications that provide predictable and reliable performance within agreed service levels will yield happy users who will perceive you as a true business enabler.

Reduce Risk and Avoid Costs

It is a well-established fact that the cost of retrofitting an application to remediate critical flaws increases dramatically after the application is live. Mobile performance testing ensures that you deliver predictable application performance, and reduces the risk that the application will need to be taken offline to fix performance issues. User productivity remains undisrupted and the extra expenditure is avoided.

Service Planning and Deployment

Preparation

The initial phase of the service is to ensure that all prerequisites listed in the checklist provided by Micro Focus (e.g. availability of customer SMEs, installation of LoadRunner or Performance Center) are met and Micro Focus consultants are ready to come on site. If the Micro Focus team includes offsite consultants, we ensure that network access is provided. We also conduct a kickoff meeting with the stakeholders to ensure that everyone knows what their role is and what to expect as the project progresses. With the help of the customer test/QA lead and mobile SME, we identify test scenarios for automation and ensure the availability of necessary software products and mobile testing infrastructure.

Deployment

During the Deployment phase, Micro Focus will install, set up, and configure Network Virtualization solution and Mobile Center with the supported out of the box integrations with existing Micro Focus tools (LoadRunner, Performance Center, Micro Focus ALM, and others)

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Discovery

In this phase, the customer SME walks through the test scenarios identified, and then works together with the Micro Focus consultant to capture the test requirements that the Micro Focus consultant will then transform into a test plan.

Development

Based on the outcome of the Discovery phase, the Micro Focus consultant develops all necessary scripts. Performance scenarios are created and the desired network impairments are configured within each scenario.

Execution

In this phase, the test scenarios are executed. Any issues are rectified and the tests are rerun until they execute flawlessly. Raw performance data is collected, reports are generated, and the results are presented to the stakeholders. We provide the necessary mentoring and knowledge transfer to your QA/test leads to enable them to continue to expand your performance testing capabilities.

The Micro Focus Professional Services Difference

Micro Focus provides unmatched capabilities with a comprehensive set of consulting and implementation services and unique intellectual property that help you drive innovation through streamlined and efficient software delivery.

- Proven Micro Focus software solution implementation expertise
- More than 20 years of experience helping large, complex, global organizations realize value from their Micro Focus software investments
- Rich intellectual property and unparalleled reach into product engineering
- Technology-agnostic implementation approach with no vendor lock-in, no rip-and-replace
- Education and support services to ensure adoption

Learn more at
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