

## Solution Showcase

# Transforming the Organization: HPE Moonshot for Citrix Mobile Workspaces

**Date:** December 2015 **Author:** Mark Bowker, Senior Analyst, and Leah Matuson, Research Analyst

**Abstract:** Workplace mobility and productivity is becoming a part of the everyday lives of growing numbers of employees, enhancing their productivity and enabling them to transact business anytime, anywhere, and from almost any device. At the same time, IT is challenged with protecting business-critical data, while providing end-users with secure and simplified access to applications, data, and desktops, reducing operational complexity, simplifying IT infrastructure, and embracing cost efficiencies. While many organizations are still working with outdated, complex, and costly systems, they still would like to reap the benefits of an efficient mobile workspace delivery solution that can deliver benefits across the organization—to the end-user, IT, and the business—with a predictable infrastructure designed to provide favorable economics.

HPE Moonshot for Citrix Mobile Workspaces solution consolidates applications, desktops, data, and services into a single, scalable, high-performance architecture that seamlessly enables access to a secure mobile workspace from anywhere. This solution gives organizations a turnkey, predictable infrastructure (preconfigured, and pretested) that allows IT to retain control over business-critical information, while enjoying better data security as well as operational and cost efficiency. Organizations looking for a streamlined mobile workspace platform designed and tailored for specific workloads, which simplifies operations and management, and drives down the total cost of ownership, would be advised to look at HPE Moonshot for Citrix Mobile Workspaces.

## Mobile Employees Transform Work—with Digital Workspaces

Gone are the days when employees were tethered to their PCs and laptops. Companies are transforming the ways they deliver workspaces to employees. With business being transacted 24/7, and a growing portion of the workforce working remotely, more enterprises continue to support bring-your-own-device (BYOD) initiatives. With BYOD, employees can work anywhere, anytime, and on almost any device, delivering a positive impact on employee satisfaction and productivity.

In fact, according to recent ESG research, 75% of businesses indicated that up to 50% of their employees are mobile in the course of a typical work week, while 43% of organizations consider mobility as critical for employees to perform their primary job functions. What's more, a large majority (70%) of IT decision makers surveyed consider effective mobility strategies critical to core application/businesses processes that can lead to a competitive advantage.<sup>1</sup>

It's no wonder that in today's fast-paced business environment, employee usage, comprehensive mobile business strategies, and the need to mitigate security risks are accelerating the demand on IT to enable workplace productivity using mobile workspaces—while maintaining favorable economics and simplifying the daily operations of the infrastructure.

<sup>1</sup> Source: ESG Research Report, *Security, Mobility, and Collaboration: Trends in Workforce Mobility*, to be published.

This ESG Solution Showcase was commissioned by Citrix and Hewlett Packard Enterprise and is distributed under license from ESG.

© 2015 by The Enterprise Strategy Group, Inc. All Rights Reserved.

## An Effective Mobile Workspace Delivery Strategy

While the demand for secure access and enhanced employee productivity are key objectives for organizations, the current mobile environments are too complex, not integrated, difficult to support, and costly to maintain. Most businesses realize they need to make a change to stay competitive, but are still unsure as to what they need. So, what should be included in an effective mobile workspace delivery strategy?

- **Turnkey infrastructure.** IT requires simplified workspace delivery with better control of mobility environments, certified, pretested, and designed to work together with the workspace delivery platform.
- **Secure delivery platform.** This represents a means by which IT can deliver applications, desktops, and data to end-users over the network. As a result, users can consume these applications, desktops, and data on multiple devices from different locations, 24/7.
- **Flexibility, scalability, and high availability.** The right workspace delivery platform enables IT to easily scale up as demands require. Overprovisioning now becomes a thing of the past since data center capacity can be expanded incrementally, providing linear and predictable scalability with pay-as-you-go flexibility, while delivering high availability.
- **Enhanced user experience.** Organizations must be able to provide employees with a consistent user experience, meeting the performance requirements of a variety of employees—from those who require typical business programs and audio/video to those whose work requires high-definition video and 3D modeling scenarios.
- **Predictable economics.** By using an infrastructure that's been configured, tested, and certified ahead of time, and implementing a common infrastructure platform for multiple deployments, IT is able to simplify deployments and system and application management while reducing costs.

## HPE Moonshot for Citrix Mobile Workspaces

Virtual desktop and application delivery are strengths for Citrix, having prospered in that market for more than 20 years by meeting the demanding needs of end-users with solutions that include workspace delivery, enterprise mobility management, application delivery controllers, and file sync and share.

Citrix Mobile Workspaces, delivering a comprehensive, integrated mobility and mobile workspace solution, is specifically designed to help organizations provide their mobile workforce with secure and easy access to the right applications (the solution provides a unified application store that aggregates Windows, web, SaaS, and mobile apps for delivery to any device), data, and personalized desktops—at the right time on any network. The result is that IT can efficiently deliver a high-performance user experience from any device including PCs, Macs, smartphones, tablets, and thin clients, over any network or cloud. End-users aren't the only winners, as the solution provides IT with a flexible and scalable workspace delivery infrastructure, streamlining the support and management of applications, as well as desktop and mobile infrastructures.

The partnership between Citrix and HPE is a winning combination, with IT, end-users, and businesses benefiting from their efforts.

## Better Business Agility Across the Enterprise

To be productive, end-users need to have the right access to the right data at the right time from any device. With HPE Moonshot and Citrix, organizations are able to easily increase the productivity of their mobile workforce, while allowing IT to maintain operational control, protect business-critical information, and improve operational efficiencies. Citrix enables

IT to securely deliver all applications, including Windows, web, software-as-a-service (SaaS), and mobile data and services, from any device, at any time, over any network or cloud. To stay competitive, organizations must act quickly when opportunities arise. The solution allows businesses to be flexible, taking advantage of opportunities as they arise, and easily expanding and scaling as the needs of the business change.

HPE Moonshot for Citrix Mobile Workspaces helps organizations:

- Optimize application performance with a system that fits the workload with the right compute power.
- Realize breakthrough economics by delivering a high-performance user experience, while offering power, space, and cost savings.
- Accelerate business innovation by supporting the most demanding applications.

HPE Moonshot for Citrix Mobile Workspaces solutions deliver rapid mobile access to a wide range of mobile workspaces on a single system—from basic, low-end programs through resource-intensive audio and video to programs that contain rich graphics, allowing users to run their Windows applications as secure mobile services. The complete solution comprises a combination of HPE ProLiant m710p, m710, m700, and m300 Server cartridges. Additionally, the Moonshot system uses an innovative architecture to align purpose-built modules with the right workload to produce optimal results.

With such a wide variety of servers, IT can deliver multiple applications and desktop solutions from a single system to any number of users, when and how they need them. For example, IT can use:

- m710p and m710 cartridges for XenApp servers, or for hosted desktop infrastructure (HDI) for powerful graphics performance. The m710 cartridge powers XenApp to simplify virtual application delivery and advance business agility and innovation.
- m700 cartridges for cost-effective HDI, and for typical business applications, business graphics, and multimedia performance.
- m300 cartridges for running XenDesktop, NetScaler, and XenMobile infrastructure. They provide a complete, multi-tier web infrastructure that delivers efficient workload optimization, aligning the right amount of compute, memory, and storage, delivered at scale.

In addition, HPE Moonshot for Citrix Mobile Workspaces enables an out-of-the-box experience for use of the Intel Iris Pro Graphics chip, supporting superior graphics and high-definition video performance without the need to deploy and manage an additional hypervisor layer. The bare metal architecture streamlines the implementation process and eliminates the typical waiting time associated with standing up the underlying management platform or virtualizing a graphics processing unit (GPU). This leads to better, real-time decision making since workers have immediate access to the graphics-intensive information they need—without latency problems, poor performance, or unreliable quality of service.

## **Simplify IT Operations**

With HPE Moonshot for Citrix Mobile Workspaces, IT is able to streamline its operations, while gaining better control and operational efficiencies. In HPE Moonshot-Citrix environments, all data is stored on central servers, with only HDX images delivered to end-users. In this way, workers can use any device to access data that is centrally secured in one location behind corporate firewalls, reducing the risk of data loss. IT maintains better control over data, and security issues, if any, do not occur at the difficult-to-control endpoints.

With the solution, users are up and running more quickly and easily due to the consolidation of application delivery into a single architecture—speeding delivery to mobile devices through Citrix XenDesktop and XenApp. In addition, the modular cartridge design makes repairs in place much easier.

HPE Moonshot for Citrix Mobile Workspaces has a dense form factor that can run more workloads in less space. However, when it is time to scale out, its hot-pluggable server cartridges—already optimized for Citrix software—simplify provisioning and configuration for IT.

### **Satisfy the Need to Store Data, While Driving Down Cost and Complexity**

IT is always thinking about storage (it's their job, after all). How much will they need, when will they need it, and at what cost? The HPE Moonshot system is enabled with m.2 Solid State Device technology for fast reads and writes, which provides low latency and high performance. For example, the Moonshot m710p/m710 Server Cartridge can contain up to 960 GB of local storage to support data and workloads. For additional storage, organizations may choose from two external subsystems for network connection—HPE 3PAR StoreServ Storage, and HPE ProLiant SL4500.

### **Reduce Total Cost of Ownership (TCO)**

Compared with traditional rack and server deployments, the high-density design of HPE Moonshot for Citrix Mobile Workspaces reduces the system's TCO by supporting up to 2,000 users on a single Moonshot chassis by means of the following: reduced power consumption; reduced space and cabling; lower infrastructure expenses; and a system cost-efficiency that uses the appropriate level of compute for each workload with no wasted resources.

### **The Bigger Truth**

Workplace mobility and productivity is becoming a part of the everyday lives of growing numbers of employees, enhancing their productivity, and enabling them to transact business anytime, anywhere, and from almost any device. At the same time, IT is challenged with protecting business-critical data, while providing end-users with secure and simplified access to applications and reducing operational complexity and cost inefficiencies. That said, many organizations are still working with outdated, complex, and costly systems, but would welcome an efficient mobile workspace delivery solution that could deliver benefits across the organization—to the end-user, IT, and the business—with a predictable infrastructure designed to provide favorable economics. With HPE Moonshot for Citrix Mobile Workspaces, HPE and Citrix have achieved these goals—by centralizing solutions in the data center to secure business-critical data while consolidating application delivery into a single, scalable, high-performance architecture that facilitates enterprise mobility.

This solution helps organizations embrace a mobile workforce, empowering employees with enhanced productivity and giving them a turnkey, predictable infrastructure (preconfigured, and pretested) that allows IT to retain control over business-critical information, while enjoying better data security, as well as operational and cost efficiency. Organizations looking for a streamlined mobile workspace platform designed and tailored for specific workloads, which simplifies operations and management, and drives down the total cost of ownership, would be advised to look at the HPE Moonshot and Citrix solution.



All trademark names are property of their respective companies. Information contained in this publication has been obtained by sources The Enterprise Strategy Group (ESG) considers to be reliable but is not warranted by ESG. This publication may contain opinions of ESG, which are subject to change. This publication is copyrighted by The Enterprise Strategy Group, Inc. Any reproduction or redistribution of this publication, in whole or in part, whether in hard-copy format, electronically, or otherwise to persons not authorized to receive it, without the express consent of The Enterprise Strategy Group, Inc., is in violation of U.S. copyright law and will be subject to an action for civil damages and, if applicable, criminal prosecution. Should you have any questions, please contact ESG Client Relations at 508.482.0188.



**Enterprise Strategy Group** is an IT analyst, research, validation, and strategy firm that provides actionable insight and intelligence to the global IT community.

© 2015 by The Enterprise Strategy Group, Inc. All Rights Reserved.

