

VMWARE MIRAGE SPEEDS WINDOWS 10 MIGRATION FOR PHYSICAL PCS

VMware Can Help

You've decided that Windows 10 is in your future, and maybe you've even got a picture of what that future should look like. But how do you get there? How do you move your legacy XP machines? How do you move your 32-bit Windows 7 machines? Your existing PC estate is vast, complex, and interlinked. Regardless of how amazing you are as an administrator, your PC environment contains many unknowns and 'gotchas' that have been burned into the images and control scripts by the countless admins that came before you.

VMware can help. We have a sophisticated portfolio of tools that can help you break your problem into discreet, manageable tasks. VMware User Environment Manager™ can decouple the PC from its user data and bloated profiles, and help you tackle your unmaintainable login scripts. VMware App Volumes™ ring fences your applications, including the user-installed ones, and packages them for dynamic delivery to whole groups of people in a single click. VMware Horizon® 7 can deliver the entire Windows experience dynamically to any device of your users' choosing. VMware AirWatch® is arguably the most scalable and flexible way anyone can manage remote devices: be they phones, laptops, or anything else. And finally, VMware Workspace™ ONE™ brings all these tools together in a single solution: one framework to help you realize your future Windows designs.

AT A GLANCE

VMware Mirage™ enables legacy Windows-to-Windows-10 migration across the WAN or LAN, with no loss of user files or personalization.

KEY BENEFITS

- Save up to 70 percent on migration costs versus traditional tools
- Reduce end-user downtime to minutes
- Prepare for VMware Workspace™ ONE™ Windows 10 app delivery
- Easily migrate branch and remote office employees without added infrastructure costs
- Simple 6-month Mirage rental model

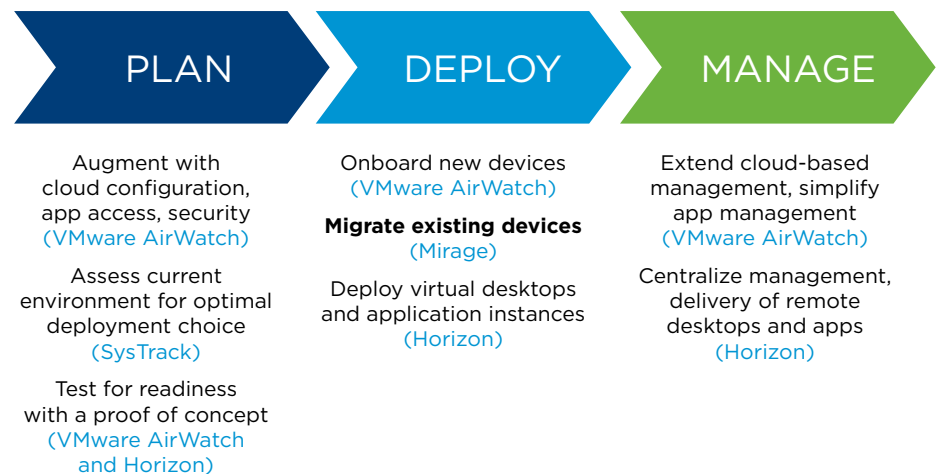


Figure 1: The VMware Journey to Windows 10 and Workspace ONE

This brief discusses how VMware Mirage can speed the one-time operation of moving what you physically have, to what you want, virtual or otherwise.

“Windows 10 is inevitable for PCs. Eventually, every organization will run it.”

TEN THINGS YOU NEED TO KNOW ABOUT
WINDOWS 10 FOR A SUCCESSFUL PC
DEPLOYMENT, GARTNER, JULY 2015

Mirage Overview

VMware Mirage streamlines the two most common migration approaches: upgrading an existing Windows device, in place, to Windows 10, or migrating a user's profile and files in a hardware-refresh process from their previous device to a new one.

When performing an in-place upgrade, you can deploy a Windows 10 base layer (with Windows 10-compatible apps already built in) to a collection of users. That base layer will upgrade the local OS to Windows 10, but it will not delete or overwrite the users' personal files or profiles. This approach greatly reduces the time you have to spend getting users back up and running, and it greatly reduces downtime.

When leveraging a hardware refresh cycle, you can seamlessly migrate all the users' personal files and profiles from the old devices over to the new Windows 10 devices. In addition, Mirage takes a full snapshot of the original Windows system before the migration begins. Should a failure occur on any endpoint during the migration, the user can be quickly restored to their previous system, without downtime or fire drills.

With the centralized management provided by Mirage, you can perform all the snapshot, migration, and recovery tasks remotely. This significant reduction in manual processes accelerates the migration project and reduces costs. Mirage is optimized for performance across the WAN, making it easy to support remote and branch office employees without added infrastructure or costs.

A manual Windows migration can often take between 4 and 6 hours per PC or POS device. Mirage can massively reduce that time, while facilitating the concurrent migration of multiple machines. With Mirage, a single technician can handle 100 or more migrations per day from the central management console, without leaving their desk.

Your Migration Options

There are four basic migration strategies that organizations follow. Mirage can support or replace these techniques, giving you a single migration strategy for all your physical devices.

1. **Hardware refresh** – New devices are shipped with a Windows image prepared by the manufacturer. This traditionally requires a multi-step migration process. First, the OEM image is replaced with a corporate one, then the user's data and profile are migrated from the old machine to the new.
2. **Manual imaging** – Manually migrating machines often requires onsite technical support, a process that is, at best, expensive to perform at headquarters, and at worst, impossible to perform at branch locations.
3. **SCCM-based migration** – Almost every modern network card is configured with a Preboot Execution Environment (PXE) chip, which means that by using SCCM and the appropriate infrastructure, you can push updates to Windows machines. However, this process is cumbersome over WANs and often involves long downtimes.

4. **Mix and match** – Due to the limitations of the above three techniques, administrators often take the best of each method and mix them in complex, homegrown scripts. This mix-and-match approach often results in unmaintainable complexity, while still rendering the user without compute for several hours.

Using Mirage, regardless of your strategy, user productivity is maintained and IT effectiveness is massively increased. In fact, end users will experience almost no downtime with minimal reboots, and no action on their part (which means no training). Their data and profiles will be maintained, and the whole process will happen as seamlessly for remote users and it does for those in your headquarters. There's also the safety net of the snapshot, so should anything go wrong, the user is rolled back and productive while an investigation into the fault is conducted.

For you, the IT guru, Mirage provides a single WAN- and LAN-friendly platform on which you can perform minimum-effort migrations, benefiting from staged provisioning and hardware-agnostic image streaming. There are even bare-metal options for those corner cases.

Mirage Works

VMware firmly believes in Windows 10 and is investing heavily in Workspace ONE as your one-stop platform to deliver any app to any user on any platform. With VMware AirWatch as its backbone, you get full client lifecycle management across all your devices. For those that require a whole desktop, Horizon 7 will remotely publish your apps to any endpoint, either from your data center or the cloud.

In order to rapidly move you from Windows XP, Windows 7 (32- or 64-bit), or Windows 8 to the new world of VMware AirWatch-managed Windows 10, you can rent Mirage for 6 months, for this one-time migration. During the rental period, users will be able to continue using their existing operating systems, while Mirage invisibly prepares their machines for upgrade. At the appropriate time, a single reboot will move all your users to Windows 10, with no downtime and no loss of productivity.

Try Mirage for Free

VMware offers an extensive library of online tools so you can experience our products without installing the software. Check out the [Windows 10 Mirage Migration Hands-on-Lab #1753](#) to test drive Mirage endpoint and applications management.

Learn More

For information or to rent VMware Mirage, call 1-877-VMWARE (outside North America, dial +1-650-427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the product documentation.

