



INTEL AND CITRIX ENABLE A SEAMLESS WINDOWS 10* EXPERIENCE FOR THE ENTERPRISE

SOLUTION OVERVIEW

Since its rollout in July 2015, the Microsoft Windows 10* operating system has been steadily gaining adoption.

At the same time, some organizations are taking a “wait-and-see” approach: Their business success hinges on a highly productive workforce, and executives fear disruptions and delays caused by migrating to a new operating system. IT managers are also concerned about committing skilled staff for weeks and months of compatibility testing and systems migration. They must also resolve hardware questions, too: What is the right platform for achieving the maximum benefits in performance, security, and manageability with Windows 10?

Enterprises have strong incentives to adopt Windows 10. New features such as improved browser performance, faster searches, and streamlined security with biometric logins can result in user productivity gains.¹ In addition, Windows 10 helps streamline bring-your-own-device (BYOD) support, allowing IT professionals to spend more time on strategic initiatives that generate revenue. What enterprises need is a pragmatic approach to accelerate Windows 10 adoption that gives them control of the migration process and minimizes the drain on IT staff.

Intel and Citrix have [collaborated for over a decade](#) to give organizations the flexibility to seamlessly scale their

IT investments and securely deliver apps and data to users. Through their close working relationship, Citrix and Intel are now addressing the real-world challenges of Windows 10 migration. Citrix offers a practical approach to deploying Windows 10 that avoids the zero-day chaos of previous migrations and enables organizations to continue using existing and legacy line-of-business (LOB) applications plus other mission-critical Windows*-based applications. Using [Citrix* desktop virtualization](#), IT groups can deploy multiple versions of Windows applications and operating systems across the enterprise. With Citrix solutions, those applications and operating systems can run on any device without modification.

[Intel® vPro™ technology](#) offers a robust, secure, and easily managed platform for Windows 10 (Figure 1). The [6th generation Intel® Core™ processors](#) offer built-in hardware support that delivers out-of-the-box security

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Windows* 10 + Intel Better Together

Making Computing More Personal and Natural

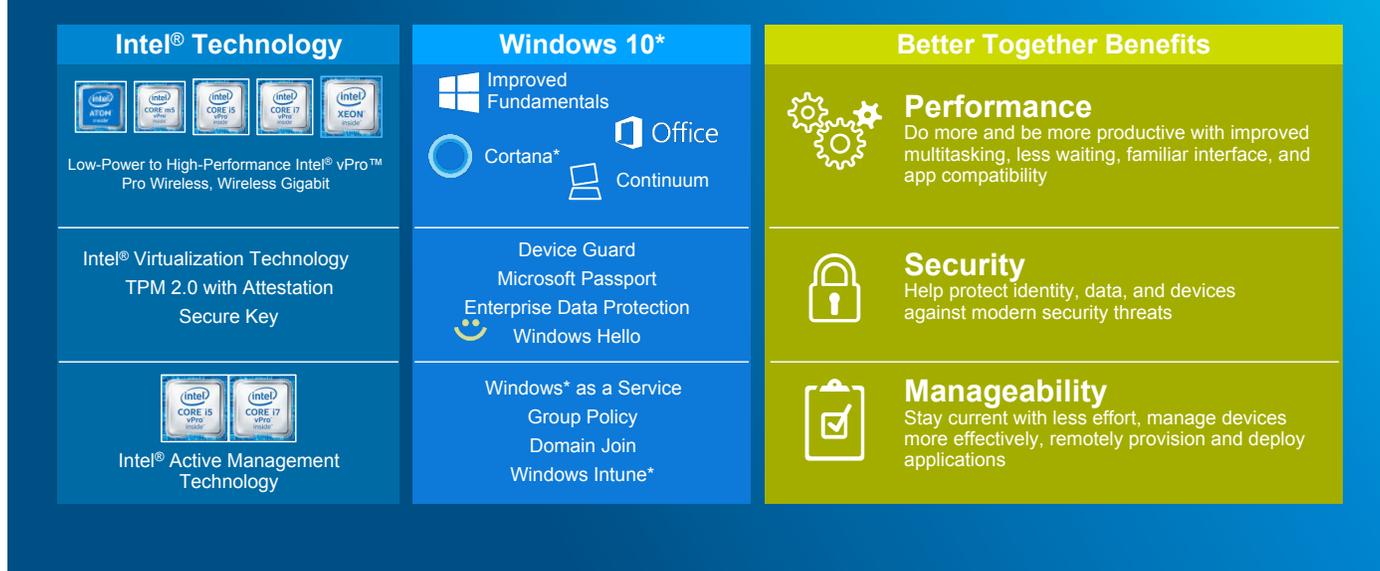


Figure 1. Intel® technology delivers a robust, secure, and easily managed platform for Windows 10*.

for applications and the Windows 10 operating system. Manageability features help IT groups stay current with less effort, manage devices more effectively, and remotely provision and deploy applications.

HARDWARE OVERVIEW

Intel processors can help enhance the value of Windows 10 by delivering exceptional performance, security, and manageability.

Performance

Intel processors help provide a robust user experience that enables the enterprise workforce to get things done faster and easier. By selecting systems with 5th and 6th generation Intel Core processors, organizations can give employees a responsive experience that reduces waiting time. With Intel processors, users can take full advantage of Windows 10 productivity-enhancing features such as the Cortana* personal assistant, which allows users to schedule appointments, execute commands, and receive alert notifications.

Security

Protecting against today's increasingly virulent and persistent security threats requires an approach that coordinates software and hardware capabilities.

Windows 10 works with Intel® technologies to provide what Microsoft calls "the most secure Windows we've ever built."² Hardware-enhanced security features capitalize on Intel technology to help protect data, devices, and identities.

Intel® Core™ vPro™ processors incorporate [Intel® Identity Protection Technology](#) (Intel® IPT) to help prevent misuse of identity credentials to access business and personal information. Intel IPT helps create safer online interactions and helps secure valuable intellectual property by enabling a hardened virtual smart card (certificate) login to XenDesktop* and a hardware-protected PIN-based Windows login. With hardware-enhanced Public Key Infrastructure (PKI) certificates from Intel IPT, the XenDesktop solution provides a more secure user authentication experience.

Manageability

Intel and Microsoft offer system administrators a range of tools that make it easier to keep enterprise devices current. Windows 10 features a single core application that runs on every device, streamlining cross-platform support and manageability. Windows as a Service is designed to keep systems more secure and up to date

through more-frequent updates. Enterprise-level support is offered in two forms: The Current Branch for Business (CBB) option covers most enterprise applications while the Long-Term Servicing Branch (LTSB) option supports more complex change-control processes or mission-critical systems.

Intel Core vPro processors allow IT managers to better discover, repair, and protect their networked computing assets. Intel vPro technology includes out-of-band system management, which enables IT technicians to securely manage systems even if platforms are powered off. KVM (Keyboard, Video, Mouse) Remote Control capabilities let IT remotely remediate and recover systems after operating system failures. Using vPro technology, system administrators can patch, repair, and upgrade the software; automatically inventory systems; and remotely manage and unlock encrypted drives—all without disrupting network users. Organizations can improve asset management, reduce downtime, and minimize desktide visits.

SOFTWARE OVERVIEW

Intel and Citrix are helping to reduce the hurdles of migration with an innovative approach to Windows 10 rollouts that addresses three critical enterprise challenges: supporting personally owned devices, deploying new mobile devices, and rolling out Windows 10 in the data center.

Bring Your Own Device (BYOD)

BYOD is increasingly embraced by both IT groups and employees. Many employees today expect their IT departments to support their personal devices and use familiar enterprise applications with Windows 10. That's often the case with large enterprise applications, but LOB applications may lag behind because IT groups do not have the bandwidth to test and qualify all the various versions of LOB applications and their dependencies. The Microsoft Edge* browser—new in Windows 10—further complicates the compatibility testing problem.

As the leader in app and desktop virtualization, Citrix has been enabling enterprises to migrate to new generations of Windows for over 20 years. Citrix Receiver for Windows*, deployed on any Windows device and connecting to Citrix XenApp* or XenDesktop, provides mobile access to applications designed for previous versions of Windows. Moreover, with Citrix solutions, IT



Figure 2. Citrix Receiver for Windows* provides access to LOB, Windows, Web, and software-as-a-service (SaaS) applications designed for any current or previous version of Windows.

is in control of security and access for users. They do not have to worry about lost devices, since neither enterprise applications nor data reside on endpoint devices. Citrix Receiver for Windows helps organizations realize the full productivity benefits of all devices, including the newest Intel processor-based Windows 10 endpoints, without compromising security (Figure 2).

Deploying New Mobile Devices

Despite the growing acceptance of BYOD, many companies still rely on enterprise-owned devices. Using Citrix XenApp or XenDesktop, corporate IT groups can accelerate the deployment of new business devices by up to 89 percent.³ AppDNA*, an application lifecycle management tool incorporated into XenApp and XenDesktop, enables IT engineers to discover, automate, model, and manage all Windows and web-based applications for faster application migration, easier virtualization, and streamlined management.

Data Center Considerations

Standardizing on Intel processor-based systems in the data center enables IT groups to offer virtual applications and desktops at greater scale and with better security. Citrix XenApp and XenDesktop provide access from any Windows 10 device—stationary or mobile—to demanding applications such as computer-aided design and computer-aided manufacturing (CAD/CAM). Intel processors in both the data center and the endpoint devices empower a workstation-like experience with the scale and security of [hosted virtualization](#).

SOLUTION CONSIDERATIONS

Planning a move to Windows 10 starts with the hardware platform. Intel processors, in particular 6th generation versions such as the Intel Core i7-6000 and Intel Core i5-6000 series, deliver outstanding energy-efficient performance while supporting the broadest range of device designs. Standardizing on Intel processors is the best way to ensure an optimum user experience on Windows 10 devices.

Citrix and Intel deliver a [practical approach to Windows 10 migrations](#). Using AppDNA, IT engineers can clearly discover which applications will work with Windows 10 and which require a remediation plan. AppDNA automates the repair of minor application issues, saving hours of manual modifications.

By standing up Windows 10 in a hosted XenDesktop environment, IT can offer users a “taste of 10” on earlier versions of Windows. This user acceptance testing helps IT groups learn critical facts about how and why their IT subscribers use Windows 10 and improves the chances of a successful migration.

Because of the proliferation of consumer devices, corporate employees may not wait for IT to approve a Windows upgrade on their consumer device. By hosting supported corporate applications and desktops in a virtual environment and delivering them to the user

through a storefront experience, employees can safely upgrade their devices and companies can buy new business devices with confidence. Citrix securely delivers Windows 10 applications and desktops on any Intel-powered endpoint including Intel Ultrabook™ devices and NUCs*, Apple* desktops and laptops, and Chromebooks*.

KEY BUSINESS BENEFITS

- **Automated compatibility testing** accelerates the deployment of new business devices by up to 90 percent.
- **Higher performance** increases productivity and provides a better user experience.
- **Enhanced security** protects data, devices, and identities, and strong encryption prevents data breaches for lost or stolen devices.
- **Support for multi-generation Windows applications** streamlines migration to Windows 10 and minimizes impact on IT resources.

To learn more about Citrix desktop virtualization, visit: www.citrix.com/xendesktop

To learn more about Intel vPro technology, visit: www.intel.com/content/www/us/en/architecture-and-technology/vpro/vpro-technology-general.html

For more about Windows 10, visit: www.microsoft.com/en-us/windows/features



^{1,2} See www.microsoft.com/en-us/windows/features

³ Results reported by Vertex, a Citrix customer. See case study at https://www.citrix.com/customers/vertex_en.html

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors.

Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit <http://www.intel.com/performance>.

Intel® vPro™ Technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software, and IT environment. To learn more, visit <http://www.intel.com/technology/vpro>.

No computer system can provide absolute security. Requires an Intel® Identity Protection Technology-enabled system, including an enabled Intel® processor, enabled chipset, firmware, software, and Intel integrated graphics (in some cases) and participating website/service. Intel assumes no liability for lost or stolen data and/or systems or any resulting damages. For more information, visit <http://ipt.intel.com/>. Consult your system manufacturer and/or software vendor for more information.

KVM Remote Control (Keyboard, Video, Mouse) is only available with Intel® Core™ i5 vPro™ and Core™ i7 vPro™ processors with Intel® Active Management Technology activated and configured, and with integrated graphics active. Discrete graphics are not supported.

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