

Microsoft

** Safer. Simpler. Easier.
My technology ROI just got a boost.*

Software Assurance Benefit
Windows Vista Enterprise

** My* Software Assurance
More benefits / Maximum value

Better efficiency, lower costs

Windows Vista™ Enterprise is available exclusively to Software Assurance customers. This premium desktop operating system is optimized for medium-sized and large organizations and delivers solutions for the challenges they face, from protecting sensitive data and improving legacy application compatibility, to simplifying IT deployment and management.

01
STRATEGY

My strategy: streamline effectiveness

Windows Vista™ Enterprise dramatically improves company-wide application compatibility, streamlines the creation, deployment, and management of multiple desktop configurations, and supports mobile workforces while protecting corporate data. In addition to all the features and benefits included in the Business edition of Windows Vista, Windows Vista Enterprise offers differentiating benefits to help address the unique technical challenges of medium-sized and large organizations: Windows BitLocker™ Drive Encryption, Virtual PC Express, Subsystem for Unix-Based Applications (SUA), and Multi-lingual User Interface (MUI).

My challenge: data protection

Situation: Laptops containing valuable company information get lost or stolen everyday. A thief can easily access the data on your laptop by booting another OS or running a hacking tool. Even desktop PCs pose a security risk—data on hard drives can be compromised if not handled correctly during recycling or refurbishment.

Solution: Windows BitLocker Drive Encryption effectively locks out unauthorized users, keeping them from accessing sensitive data and intellectual property. It achieves this by providing real-time encryption and decryption of all data stored on the hard drive, reducing the risk associated with lost or stolen PCs and reducing costs incurred by stolen data on recycled or refurbished old PCs.

Windows BitLocker Drive Encryption provides robust real-time encryption and decryption of all data stored on the full system volume, including:

- Windows operating system files
- applications
- documents
- temporary files
- hibernation files
- pagefile
- registry data

The key required to encrypt and decrypt data is protected using specialized yet readily available cryptographic hardware called a Trusted Platform Module (TPM) 1.2 chip, a microcontroller that stores keys, passwords, and digital certificates, and is typically affixed to the motherboard of a PC. It ensures stored information is more secure from external software attacks and physical theft.

Windows BitLocker Drive Encryption provides encryption of the full Windows volume and also protects the integrity of the Windows boot process. During this process, the keys that unlock the encrypted Windows partition are only released from the TPM chip once the booting operating system veracity has been established, assuring that no offline system tampering or attempts to boot an alternate operating system occurred.

Transparent to the end user: Windows BitLocker Drive Encryption is non-disruptive to the end user. It does not require any additional user authentication other than standard logon procedure.

Key recovery mechanism: Setup will automatically escrow keys and passwords into Active Directory for centralized key storage and management.

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My challenge: migration

Organizations face a dilemma—they would like to migrate to the latest operating system and take advantage of the latest technology and improved security, but some legacy applications might not be compatible with the new OS, and can create significant migration concerns for IT Professionals. Windows Vista Enterprise combines features and licensing rights that make migration seamless.

Windows Vista Enterprise provides improved application compatibility with features like Virtual PC Express and Subsystem for Unix-based Applications (SUA). With Windows Vista Enterprise, organizations can now utilize the latest desktop platform while cost-effectively using legacy applications.

Virtual PC Express enables users to conveniently run two operating systems on a single computer through a virtual machine. While the latest operating system (OS) (e.g. Windows Vista Enterprise or Windows XP Professional or even Windows XP Tablet PC Edition) runs as a host, the other OS (e.g. any of the previous pro Windows operating system versions as well as MS-Dos 6.22 and OS/2 Warp) runs as a guest in the virtual machine. Virtual PC virtualizes, with software, a complete hardware system—from processor to network card.

Virtual PC Express lets Software Assurance customers fully take advantage of their licensing use rights without acquiring any additional licenses for their virtual machine. Virtual PC Express addresses the need for certain users to temporarily maintain mission-critical legacy applications that might be working well with an older OS version while the IT department is migrating to the new OS.

Subsystem for Unix-based Applications (SUA)

SUA is a Windows component, providing platform services for UNIX-based applications. This component eases integration between Windows and UNIX/Linux environments. By re-compiling UNIX-based applications on Windows, SUA helps users leverage their in-house UNIX skills and overcome as many barriers as possible in moving their workloads to the Windows platform.

SUA is the next-generation of Microsoft's Portable Operating System Interface (POSIX) subsystem and Interix systems that shipped with Services for Unix. SUA includes 64-bit support and database connectivity libraries (ODBC and OCI). Additional utilities and SDK are available as a Web download.

Note: Virtual PC Express Early Release, available to Software Assurance customers since March 2006 supports Windows XP Pro, Tablet PC Edition, and Windows 2000 Pro as the "Host" operating system.





My challenge: worldwide deployment

Increasingly mobile and globally distributed workforces complicate the IT infrastructure and increase the costs of deployment, often requiring the creation and management of multiple disk images. Windows Vista Enterprise is the solution.

With Windows Vista Enterprise, not only can a single image be deployed across all PC form factors but also across all user interface languages, greatly reducing cost and complexity.

Multi-lingual User Interface (MUI)

MUI enables IT Pros to configure a single worldwide image by including any user interface language their global business operations may need. A total of 35 languages are available for Windows Vista Enterprise customers. With multiple language configurations on their desktops, Windows Vista Enterprise end users can toggle between languages.

Your eligibility: our flexibility

Every desktop with Software Assurance coverage on the Windows desktop operating system has rights to install and run Windows Vista Enterprise, Windows Vista Business, or Windows Vista Ultimate.

Activate your benefits today! Windows Vista Enterprise will be available to Enterprise Agreements and Software Assurance customers in November 2006.



Activate today.
<https://licensing.microsoft.com>

Frequently Asked Questions

Q: What are the differences between Windows Vista Enterprise and Windows Vista Business?

A: Windows Vista Enterprise is available exclusively to Software Assurance (SA) / Enterprise Agreement (EA) customers. It is the premium business operating system edition and is not available at retail or through OEMs. Beyond the security and compliance, infrastructure optimization, productivity and mobility features included in Windows Vista Business, Windows Vista Enterprise goes further by offering distinct business value.

Windows Vista Enterprise helps businesses protect data with a feature called Windows BitLocker[®] Drive Encryption, application compatibility with virtualization and platform interoperability solutions with features such as Virtual PC Express and Subsystem for Unix-based Applications (SUA). Worldwide deployment gives customers access to all Windows user interface languages.

Q: How does Windows Vista Enterprise help end user productivity?

A: Windows Vista Enterprise is built upon the advancements made to Windows Vista, which helps improve end user productivity through:

- A new user interface called Windows Aero offers a more visually compelling desktop experience, giving users a greater ability to visualize and work with their information and a smoother, more stable desktop experience
- Pervasive, fast search capabilities throughout the desktop
- Advances in search capabilities (80% faster than Windows XP)
- New ways to organize information
- Better collaboration with Windows Collaboration and sharing of documents
- Enhanced Internet browsing with Internet Explorer (IE) 7 tabbed browsing, Quick Tabs, and new printing capabilities
- Safer Internet browsing with IE 7 Protected Mode and Phishing Filter
- Faster sleep and resume
- Improved security features with Windows Firewall, User Account Control
- Integration with the widest range of hardware and software, enabling new innovations which further increase end user productivity
- Mobility Center with features such as Presentation Mode which allows a user to set a professional desktop background and stops e-mail pop-ups during a presentation
- Tablet PC enhancements such as handwriting recognition and pen navigation

Frequently Asked Questions

Q: Can I deploy Windows Vista Enterprise on our computers that do not have SA coverage?

A: No. Windows Vista Enterprise is only available to Software Assurance customers.

Q: Does Windows BitLocker Drive Encryption offer me more than other third-party solutions?

A: Yes! Windows BitLocker Drive Encryption offers full volume encryption integrated into the operating system. This means that page files, crash dump files, hibernation files, temporary files, and system files—which are not encrypted in OEM solutions—are encrypted in the Microsoft solution. Windows BitLocker Drive Encryption is linked with Active Directory, helping ensure that recovery is easier and the solution is more transparent to the end user.

Q: Do I need special hardware to take advantage of the data protection for my hard drive?

A: Yes. A machine with a v1.2 TPM (Trusted Platform Module) chip and supporting BIOS is required. Alternatively, a USB memory stick can also be used instead of the TPM chip, although this does not support the secure boot functionality and is more risk-prone as users tend to carry their memory sticks along with their laptops.

Q: Where can I find more information about data protection in Windows Vista?

A: <http://www.microsoft.com/technet/windowsvista/evaluate/feat/secfeat.mspx#>

Q: What are the differences between Virtual PC (VPC) Express and VPC 2004?

A: From a technical perspective, the difference between the two is based on the number of virtual sessions each can have: one for VPC Express, unlimited for VPC.

From a business perspective, the use case scenarios for leveraging VPC and VPC Express are very different. Customers who want to take advantage of virtualization for help desk, training, or software testing, which represent scenarios where multiple virtual sessions are required, will continue to use VPC. Companies who need virtualization as a way of mitigating barriers to legacy applications compatibility while migrating to the newest OS will only need one virtual session and will be interested in getting Virtual PC Express and the other features in Windows Vista Enterprise.

Q: Does the virtual session created with Virtual PC Express require additional Windows client licenses?

A: Not for Software Assurance (SA) customers. For non-SA customers, taking advantage of a virtualized OS can require an additional license. SA customers are entitled to install two copies of each Windows Client operating system for each license. One of these two can be used within a session invoked via Virtual PC Express. A license does not allow more than two copies to run.

*My Software Assurance

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