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Business Backgrounder

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New Intel® Centrino® Pro Processor Technology Puts the Mobile Enterprise in Control

Meeting the needs of the mobile workforce and the growing demands on IT professionals, Intel® Centrino® Pro processor technology provides many tools and new benefits designed to provide business value. The new processor technology delivers hardware-based security and enhanced manageability, while delivering exceptional performance and outstanding mobility for the enterprise.

Enterprises can lower their IT management costs and significantly improve IT efficiency with hardware-based security and built-in management features that readily integrate with leading management software solutions. And the mobile workforce can better and more efficiently interact with the secure, flexible and expanded options in wireless connectivity offered with Intel Centrino Pro and its next-generation Wireless-N functionality.

Wireless IT Management

Accessing, maintaining and fixing the notebook assets of a distributed, mobile workforce is no easy task. However, with Intel® Active Management Technology over Wireless IT, managers can remotely discover, heal and protect wireless notebooks – reducing on-site costs and increasing the efficiency of the enterprise.

Increased Productivity

Thanks to the multitasking performance of the industry-leading Intel®Core™2 Duo processor, Intel's energy-efficient microprocessor that delivers breakthrough mobile performance and responsiveness for demanding business users, users will see improved performance when running multiple compute-intensive applications simultaneously and when running dual-core optimized applications.

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Notebook Deployment Cost Management

Intel Centrino Pro processor technology-based notebooks offer all the benefits of the Intel® Stable Image Platform Program to help IT professionals effectively plan and manage replacement cycles and reduce the number of deployed client configurations.

Power Efficiency

The Intel Core2 Duo mobile processor with Intel® Intelligent Power Capability is built for improved processor energy efficiency. This means a notebook with power-saving features that enable improved battery life.

Faster, Farther Reaching Wireless

Intel® Next-Gen Wireless-N delivers outstanding wireless performance with support for draft .11n networks along with backwards compatibility to 802.11a/b/g networks. The new wireless technology delivers data rates up to 300Mbps – up to five times faster and up to twice the range of the previous-generation wireless technology.

Advanced Wireless Security

IT professionals will rest assured knowing that Intel is delivering advanced security functionality via 802.11i. This provides increased wireless security through the WPA2 AES based algorithm – the strongest encryption algorithm available today for mobile clients.

Efficient Data Access

Intel is delivering a new, multi-core optimized cache that significantly reduces latency to frequently used data. For the professional that works from many of the same documents and templates, this improves performance and efficiency by increasing speed at which the multi-core processor can access data from a higher-performance, more efficient cache subsystem.

Enhanced Presentations

With the new performance on the Mobile Intel® 965 Express Chipset family, business users can take their graphics, presentations and content to a whole new level. With HD capabilities built-in and new features that deliver crisp audio sound and crystal clear video, business users looking to bring their presentations and content to life are now only limited by their own imaginations.

Expanded Wireless Connectivity

Experience enhanced network security, increased wireless performance and improved Voice over IP on Cisco* WLAN infrastructure, knowing that the Intel Centrino Pro-based notebook supports current Cisco* Compatible Extensions 4.0 plus Business Class Wireless Suite.

Performance and Security with Microsoft Windows Vista* and Aero*

Power additional Windows* Vista* security features such as Microsoft* Defender* and Windows BitLocker*, while still getting great performance. Experience-improving mobile graphics performance and support for Aero 3D-desktop*, Windows Vista's latest graphics interface, with the Mobile Intel® PM/GM965 Express chipset.

PCMark 2005 and 3DMark*06, SPEC* CPU2006* and Adjacent Channel Interface (ACI)* refer to comparisons with previous generation Intel® Centrino® technologies. References to improved battery life as measured by MobileMark* 2007, if applicable, refer to previous generation Intel Centrino processor technology. Wireless connectivity and some features may require you to purchase additional software, services or external hardware. Availability of public wireless LAN access points is limited, wireless functionality may vary by country and some hotspots may not support Linux-based Intel Centrino processor technology systems. See http://www.intel.com/products/centrino/more_info for more information.*

Up to 2x greater range and up to 5x better performance enabled by 2x3 Draft N implementations with 2 spatial streams. Actual results may vary based on your specific hardware, connection rate, site conditions, and software configurations. See <http://www.intel.com/performance/mobile/index.htm> for more information. Also requires a Connect with Intel® Centrino® processor technology certified wireless n access point. Wireless n access points without the connect with Intel Centrino processor technology identifier may require additional firmware for the increased performance results. Check with your PC and access point manufacturer for details.

Intel® Active Management Technology requires the platform to have an Intel® AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. With regards to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating or powered off. For more information, see <http://www.intel.com/technology/manage/iamt>.

Tests run on customer reference boards and preproduction latest generation Intel® Centrino® processor technology with optional Intel® Turbo Memory enabled against like systems without Intel® Turbo Memory. Results may vary based on hardware, software and overall system configuration. All tests and ratings reflect the approximate performance of Intel products as measured by those tests. All testing was done on Microsoft Vista* Ultimate (build 6000). Application load and runtime acceleration depend on Vista*'s preference to pre-load those applications into the Microsoft* ReadyBoost* cache. See http://www.intel.com/performance/mobile/Intel_Turbo_Memory.htm for more information.*

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