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## Intel® Centrino® Processor Technology Demo Backgrounder

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Intel works with the software industry to optimize software to improve the experience for Intel® Centrino® processor technology consumer and business users. Below are some software providers that have specifically optimized their applications to work great with the latest Intel Centrino-based notebook PCs. Additionally, this document highlights new technologies and performance enhancements in the latest Intel Centrino processor technology.

### For Consumers:

#### Video Playback

Demonstrating how the Mobile Intel® 965 Express chipset with Intel® Clear Video Technology improves the appearance of standard definition content as compared to the previous generation chipset and how the dual-core performance of Intel Centrino processor technology enables playback of HD content such as HD-DVD\* and Blu-Ray\* titles.

Software applications:

Intel Clear Video Technology: Microsoft Windows\* Media Player 11

Blu-ray playback: Intervideo WinDVD\* BD for VAIO\*

HD-DVD\* playback: HP QuickPlay\*

Hardware shown in this demo includes:

San Francisco

Intel Clear Video Technology: Gateway W650U FVM1

Blu-ray\* playback: Sony VAIO\* VGN-FZ180E

HD-DVD\* playback: HP Pavilion\* hd2000

New York

Intel Clear Video Technology: Sony VAIO\* VGN-FZ160E

Blu-ray\* playback: Sony VAIO\* VGN-FZ180E

HD-DVD\* playback: HP Pavilion\* hd2000

**Intel® Media Share Software**

Demonstrating how Intel® Media Share Software allows you to view content hosted on an Intel® Viiv-based PC anywhere in the home over wireless and allows you to download your personal content to take with you on-the-go. Also demonstrates the performance improvement with 802.11n wireless networking enabling wireless HD content throughout the home.

Software application: Intel Media Share Software

Hardware shown in this demo includes:

San Francisco  
Sony VAIO\* VGN-AR550E  
New York  
Toshiba Tecra\* M9

**Digital Content Creation**

Demonstrating how Intel® Centrino® Duo processor technology-based notebooks provide the performance needed to edit HD video on-the-go, including authoring and burning Blu-Ray® discs of your personal video content, as well as playing them back.

Software application demonstrated: Adobe Premiere Pro\* CS3, After Effects\* CS3, Photoshop\* CS3

Hardware shown in this demo includes:

San Francisco & New York  
Sony VAIO\* VGN-AR590E

**Gaming – Unique Mobile Capabilities**

Demonstrating “unique mobile capabilities” that game developers build into their games to provide a great gaming experience whether the user is online, offline, plugged in to AC power, or running on battery, by intelligently monitoring connections and power status to provide the best frame rate, battery life, and connectivity. The demonstrated game offers many capabilities including frame rate locking and graphics downgrades to conserve power when running on battery, a battery meter, wireless signal strength indicator, and graceful handling of suspend/resume with an “auto-pause” function so you can start and stop the action when you open and close the lid.

Software application demonstrated: Sims Life Stories\*

Hardware shown in this demo includes:

San Francisco  
Gateway W650U FVM1  
New York  
Fujitsu Lifebook\* A6030

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### **Gaming – Performance**

Demonstrating the improvement in graphics and game play with Intel Centrino Duo processor technology-based notebooks as compared to the previous generation notebooks with single-core processors.

Software application demonstrated: Microsoft Flight Simulator\* X

Hardware shown in this demo includes:

San Francisco (not being shown in NY)

Velocity Micro\* Laptop w/NVIDIA 8600M GT graphics

Intel Centrino-based notebook with Intel® Pentium® M processor (Dothan) w/NVIDIA 7800 graphics

### **Intel® Turbo Memory**

Demonstrates how Intel Turbo Memory can greatly speed up application launch and run times.

Software applications demonstrated: Google Earth\* 4.0, Photoshop Elements\* 5.0

Hardware shown in this demo includes:

San Francisco

2 Toshiba Satellite\* A200 notebooks with 1GB RAM, Microsoft Vista\*; one with 1GB Intel Turbo Memory, the other without.

New York

2 Unbranded Intel Centrino Duo Processor Technology-based notebooks with 1GB RAM, Microsoft Vista\*; one with 1GB Intel Turbo Memory, the other without.

## **For Business:**

### **Manageability**

Demonstrates “Heal” capabilities of Intel® Centrino® Pro processor technology, showing wireless remote diagnostics and repair, how even when the OS is not booting, an IT department can diagnose and fix a notebook. This demo shows redirection boot for system remediation, e.g., viewing and interacting with the BIOS from the console encrypted via an encrypted connection, you can see the boot progress with the console, and boot to a known good image residing anywhere on the network to fix the notebook.

Altiris

Client: HP Compaq\* 6910P

Management Console: HP Compaq\* 6510B

HP Openview\*

Client: HP Compaq\* 6910P

Management Console: Toshiba Tecra\* A9

Microsoft SMS

Client: Fujitsu Lifebook\* E8410

Management Console: Dell Latitude\* D830

### **Enhanced Security**

Demonstrating “Protect,” or system defense capabilities of Intel Centrino Pro including hardware-based isolation and recovery - IT can work on a notebook while the PC has been effectively removed from the network. Agent presence checking allows an enterprise to take the pulse of the organization’s clients to ensure that critical agents such as virus scanners stay up and running, even if a user chooses to disable them, and enforce policies based on whether or not the agents are up and running.

Software applications shown: LANDesk\*

Hardware shown in this demo includes:

Lenovo ThinkPad\* T61

### **Performance**

Demonstrating Intel Centrino Duo and Intel Centrino Pro processor technology-based notebooks are Intel’s best mobile platforms for mainstream productivity applications and significantly outperform notebook PCs with single-core processors.

Software applications shown that support these capabilities include: Microsoft Vista\*, and Microsoft Office 2007\*

Hardware shown in this demo includes similarly configured:

San Francisco

Panasonic Toughbook\* CF-74

Unbranded Intel® Centrino® Mobile Technology-based notebook with Intel Pentium M processor (single core)

New York

Lenovo ThinkPad\* T61

Unbranded Intel Centrino Mobile Technology-based notebook with Intel Pentium M processor (single core)

### **Vertical Market Applications**

Demonstrating Intel Centrino Duo-based notebooks provide workstation level performance on-the-go for demanding vertical industry applications by showcasing a processor-intensive 3D visualization application that analyzes seismic data to aid in the discovery of oil and gas deposits.

Software application shown is Schlumberger Petrel\* (Oil & Gas).

San Francisco (not shown in NY)

Hardware shown: Asus GS1 w/NVIDIA 8600M GT graphics

System performance, battery life, high-definition quality video playback and functionality, and wireless performance and functionality will vary depending on your specific operating system, hardware, chipset, connection rate, site conditions, and software configurations. References to enhanced performance including wireless as measured by SYSMark® 2004 SE, 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.

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*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](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/amt>.*

\*Other names and brands may be claimed as the property of their respective owners.