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# **News Fact Sheet**

## Intel at the 2009 Mobile World Congress

**Feb. 16-19, 2009** – Intel Corporation is dedicated to delivering a mobile Internet and wireless broadband around the world. Under the theme "Mobile Internet Evolved," Intel is demonstrating at Mobile World Congress (MWC) in Barcelona the latest ecosystem developments around WiMAX momentum, along with a range of mobility platforms that include Intel-based notebooks, netbooks and mobile Internet devices (MIDs). Intel is also showcasing its work with leading industry players to deliver new, rich, interactive mobile Internet experiences. Below are brief news highlights for the 2009 MWC.

For more information, visit the Mobile World Congress Intel online press kit, www.intel.com/pressroom/kits/mobileworld/index.htm

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#### Mobile Internet Devices (MIDs): Best Internet Experience in Your Pocket

Intel announced its first "Moorestown"-based MID design, highlighting its progress on the secondgeneration MID platform scheduled to launch by 2010. The company is also showcasing category momentum with a range of designs based on its current-generation Intel® Atom<sup>TM</sup> processor and the Intel System Controller Hub -- highlighting MIDs in the productivity, entertainment and information MID market segments.

#### Intel and LG Electronics Plan Moorestown-based MID

Intel and LG Electronics are collaborating on a MID based on Moorestown and a Linux-based Moblin v2.0 software platform. The LG MID will be one of the first Moorestown designs to come to market and is expected to deliver the best Internet experience in a pocketable device while also supporting cellular voice capability. The joint collaboration brings together the performance and compatibility of Intel's Moorestown platform with LG Electronics' system-level expertise and service provider relationships, further extending the close working relationship the two companies have enjoyed across their respective mobile product lines. Additionally, LG Electronics announced that Ericsson will provide 3G network capability on its MID.

#### Intel's Next-Generation Moorestown Platform Making Great Progress

Intel reinforced that its Moorestown platform is making great progress and is on track to reduce platform idle power consumption well in excess of 10x versus today's Intel Atom processor-based MIDs. In addition to the MID design from LG Electronics, Intel also announced that a number of system manufacturers, including Compal, EB and Quanta, are developing reference designs for time-to-market introductions.

Additionally, Open Plug announced that it is working with Intel to integrate its telephony stack in the Linux-based Moblin v2.0 software platform for Moorestown-based MIDs. Intel has previously indicated that it is working with Ericsson and Option to deliver optimized 3G capability for Moorestown.

Moorestown consists of a System on Chip (codenamed "Lincroft") that integrates a 45nm Intel® Atom<sup>™</sup> processor core, graphics, video and memory controller. The MID platform also includes an input/output (I/O) hub, codenamed "Langwell," that includes a range of I/O blocks and supports various wireless solutions. The Moorestown platform will be accompanied by a newer Moblin software version, Moblin v2.0, that is based on the Linux operating system. This software is designed specifically to deliver a great PC-like Internet experience while also supporting cellular phone voice capabilities. The platform is on track and scheduled to launch by 2010.

### ARCHOS Announces New-Generation, Innovative MiniPCs Based on Intel® Atom™ Processor

ARCHOS announced that it is working with Intel to develop a range of MiniPCs based on the Intel<sup>®</sup> Atom<sup>TM</sup> processor. ARCHOS recently introduced the ARCHOS 10, its first MiniPC, and plans to introduce a new ultra-slim model, ARCHOS 10s, with a form factor measuring 20mm thickness in April. In the third quarter, ARCHOS plans to introduce a revolutionary 9-inch MiniPC Tablet that integrates a virtual keyboard and handwriting recognition. ARCHOS will extend its rich entertainment content and services including rich multimedia, high definition video, VOD and digital broadcast television service on this class of products while delivering a rich Internet experience in ever slimmer form factors.

### Intel Crosses 100+ Atom Processor-based MID and Netbook Designs

Intel's goal to unleash the Internet across a range of mobile devices – from clam-shell netbooks to pocketable MIDs – is off to a good start with the launch of the Intel Atom processor in 2008 and the first series of designs shipping in the marketplace today. Intel has crossed over 100 designs across MIDs and netbooks from such leading companies as Acer\*, Aigo\*, ARCHOS\*, Asus\*, BenQ\*, Clarion\*, Dell\*, Fujitsu\*, HP\*, Lenovo\*, MSI\*, OQO\*, Panasonic\*, Sharp\*, Sony\*, Trigem\*, UMID\* and many other system manufacturers that are bringing the rich Internet experience to consumers on the go. MIDs and netbooks based on the Intel Atom processor have the inherent advantage in delivering high performance while maintaining software consistency and full Internet compatibility across a range of small device form factors.

## MID Ecosystem Momentum Continues to Build

Intel highlighted the growing MID ecosystem using the Linux-based Moblin software platform with a range of applications aligned with targeted usages – productivity, entertainment, information, communication. Intel indicated that Moblin has more than 1,000 applications and well over 6,000 developers actively developing in the community. A handful of leading MID ecosystem companies – Comverse\*, Move Networks\*, Option\*, Scalado\* and Wind River\* -- are also showcasing their MID-optimized products and services in the Intel booth. Additionally, a number of ISVs announced their support for MIDs based on the Linux-based Moblin v2.0 software platform including Comverse\* for visual voicemail and social address book, EB\* for 3-D navigation, Scalado\* for imaging solutions and Telmap\* for navigation and location services.

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### WiMAX: 4G Network Already Covering 430 Million People

WiMAX, based on the IEEE 802.16e industry specification, is an exciting, flexible wireless 4G broadband technology with the ability to deliver rich Internet data experiences on the go. The WiMAX ecosystem members are delivering on the promise of the mobile Internet and wireless broadband around the world today. Live WiMAX outdoor and indoor networks at MWC feature WiMAX-enabled notebooks available today from leading OEMs including Acer, Asus, Dell, Fujitsu, Lenovo, Panasonic, Samsung and Toshiba with embedded the Intel® Wireless WiMAX/WiFi Link 5050 Series, Intel's first integrated WiFi /WiMAX module solution with advanced MIMO antenna technology, as well as embedded and MIDs.

Global Mobile WiMAX Adoption Continues to Grow – In the U.S. Intel, along with some of the world's most prominent technology and media companies, began executing on the historic merger of Sprint and Clearwire to deliver WiMAX technology in the U.S. with Clear\*, Clearwire's name for its 4G WiMAX network. Japan recently joined the new era of mobile Internet with the introduction of next-generation wireless broadband WiMAX service in Tokyo and surrounding areas. Their WiMAX commercial service, beginning in July, will be the first deployment to aim for covering an entire country with WiMAX service. UQ estimates that WiMAX will cover over 90 percent of the Japanese population by the end of 2012. Intel continues to work with carriers around the world to deploy mobile WiMAX networks globally. There are currently nearly 460 commercial deployments in 135 countries. The WiMAX at the end of 2010.

### Huawei and Alvarion Join Open Patent Alliance

Continuing to help advance mobile WiMAX wireless technology, mobile broadband technology companies Alvarion Ltd. (NASDAQ: ALVR) and Huawei Technologies – leaders in providing next-generation telecommunications network solutions for operators around the world – have joined the Open Patent Alliance (OPA). The group was formed in June by members of the WiMAX ecosystem, and the addition of the two mobile network leaders will contribute strongly to OPA's objective of offering an intellectual property rights solution that will further support the competitive development and widespread adoption of WiMAX worldwide.

#### Huawei and Intel Plan WiMAX Lab for Devices

Huawei and Intel announced that a new WiMAX IOT (Interoperability Testing) Lab has opened in Beijing. Designed and built jointly by the two companies, the completion of this project represents another milestone in the ongoing collaborative efforts to boost the speed of interoperability and delivery of commercial-ready WiMAX devices throughout the global WiMAX industry.

#### Red Bend Announces Device Management Client for Embedded Intel WiMAX Chipsets

Red Bend Software, the leader in Mobile Software Management (MSM), announced that Intel has licensed Red Bend's vDirect Mobile<sup>™</sup> device management (DM) client for use in the Intel embedded WiMAX chipset based on Intel® Centrino® 2 Processor Technology. The first Red Bend-enabled Intel chipsets began shipping last fall with the back-to-school release of Intel-based notebook PCs, which will reach consumers in the United States and Japan from operators Clearwire and UQ, respectively.

#### Mobile Broadband Demonstration Breaks Barriers at Mobile World Congress

The integration, rather than separation of mobile broadband services, is an important step for customer satisfaction according to Steve Andrews, Chairman of the Fixed Mobile Convergence Alliance (FMCA). Andrews, speaking at an industry-wide FMCA reception on February 16<sup>th</sup> hosted by Intel at MWC, was shown a live demo system exhibiting rapid handovers between WiMAX (4G) and 3G data connections (both directions), while maintaining service continuity of all data sessions.

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## Mobility: Leading the Shift to the Mobile Internet

Intel is dedicated to delivering the mobile Internet experience to the consumer mass market. Momentum continues to build across the globe as Intel leads in mobile innovation with products, solutions and services including Intel® Centrino® 2, Intel® Atom<sup>TM</sup> processors and 4G wireless broadband with WiMAX.

- <u>Intel Centrino 2 Processor Technology</u> -- Intel displayed and demonstrated a wide selection of Intel Centrino 2-based notebooks. Intel Centrino 2 processor technology advances every major aspect of an Intel-based laptop -- performance, battery life, and wireless range. The integrated WiFi and WiMAX technology module is an option with certain Centrino 2-based laptops. Both WiMAX-enabled systems and network availability are expected to increase next year.
- <u>Intel My WiFi</u> This new wireless technology will be available as a software download for certain Centrino 2 systems. This feature will enable a personal area network that connects laptops to WiFi-enabled consumer devices such as cameras, printers and photo frames. My WiFi will begin shipping on certain Centrino 2 systems later in the first quarter.
- <u>Intel® Atom<sup>TM</sup>-based Netbooks</u> Netbooks are one of the hottest trends in computing today. This new class of affordable, easy-to-use Internet devices is designed for basic Internet tasks such as browsing, social networking and education. Intel is showing a variety of Intel Atom-based netbooks at MWC including models from Acer\*, Asus\* and Dell\* at the Intel booth.
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## Moblin – the Optimized OS for Intel® Atom<sup>™</sup> Processor-based Devices

Moblin is an optimized Open Source Linux software stack and technology framework that delivers visually rich Internet and media experience on Intel Atom Processor-based devices including MIDs, netbooks/nettops, in-vehicle infotainment (IVI), and embedded systems. Key features include:

- A full, PC-like internet and media experience via optimized browser, codecs and plug-ins.
- Form factor performance optimizations such as power management to enable energy efficient systems that extend battery life and fast boot to dramatically improve boot time.
- Reduced foot print and memory requirements to enable lower BOM cost and smaller form factors.
- Application and UI Framework for developing customizable, visually rich 3D experiences.

Moblin is hosted at www.moblin.org, and is an open source project where key Moblin technologies are incubated and enhanced by the Linux open source community. Moblin based operating system products are created and distributed by Linux Operating System Vendors (OSV).

- <u>Moblin Ecosystem Momentum</u>: Moblin v1 was first launched as a project in June 2007 and is now delivered by Asianux and Canonical for MIDs. 14 Linux OSVs worldwide have committed to Moblin based products going forward:
  - <u>OSVs for MID</u>: Ubuntu\*, the Asianux\* companies (RedFlag\*, Haansoft\*, Miracle\*, and Vietsoft\*), and Windriver\*.
  - <u>OSVs for Netbook/Nettop</u>: Ubuntu\*, Asianux\* (see MID), Xandros\*, Linpus\*, Novell\*, GoodOS\*, Mandriva\*, Pixart\*, CS2C\*, and TurboLinux\*.
  - There are more than 1,000 applications and well over 6,000 developers actively developing for Moblin applications.
  - OEM shipments of Moblin OS-based devices include Acer\*, Asus\*, Aigo\*, Clarion\*, BenQ\*, Dell\*, HP\*, Lenovo\*.

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• <u>Moblin v2 to Deliver Even Richer Experiences</u>. Intel just announced to the Moblin development community an engineering alpha, Moblin v2, which includes features such as fast boot, Clutter user interface and a Connection Manager. Fast boot enables Moblin to cold boot in less than 5 seconds (modulo the BIOS). Clutter is a powerful and easily programmable environment for adding 3-D graphics, physics and media support into an integrated desktop or application experience. Connection Manager is a module which helps the end-user to seamlessly and easily manage many types of wired and wireless connection standards.

While still pre-production, v2 brings cross-compatibility to each of the targeted segments – MIDs, Netbook/Nettop, IVI, and embedded systems.

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#### **About Intel**

Intel [NASDAQ: INTC], the world leader in silicon innovation, develops technologies, products and initiatives to continually advance how people work and live. Additional information about Intel is available at <u>www.intel.com/pressroom and blogs.intel.com</u>.

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