



Mobile & Internet Linux Project

Taking Mobility to the Next Level and Beyond

The market for mobile devices is booming, with a number of devices that are currently available and a multitude of opportunities for innovative mobile experiences on the horizon. However, the devices and solutions that currently exist can be cumbersome and expensive and don't provide the rich browsing experience that users have come to expect. The upcoming class of mobile Internet devices enables an uncompromised Internet experience in a sleek, low-power form factor. Linux*, with its small footprint, flexibility, lower power consumption and low cost, is emerging as the operating system of choice for these devices.

A Community for Mobile Internet Innovation

The Mobile & Internet Linux Project (<http://moblin.org>) is a new umbrella open source project focused on the development of Linux for mobile and consumer electronic devices. The project provides the resources and framework for the community, and:

- Provides tools for easy development and deployment of a Linux stack by usage model and target device
- Focuses on optimizing memory footprint and power consumption, along with developing innovative user interfaces
- Provides a platform for ISVs to develop applications while promising compatibility across OS vendors
- Helps the integration and interoperability of components for specific devices
- Acts as a source of information and sharing for technology, ideas, and opportunities



Intel Mobile Internet Devices (MIDs)

The Mobile & Internet Linux Project is targeted for non-PC devices, such as Intel Mobile Internet Devices (MIDs). MIDs personalize a new category of small, truly mobile consumer devices, enabling an uncompromised Internet experience coupled with the capability to communicate with others, enjoy entertainment and access information on the go.

The first generation of MIDs will be based on the Menlow platform, which is comprised of the Silverthorne processor and the Poulsbo chipset, both being designed from the ground up for this category of devices. We expect multiple system manufacturers to launch Menlow-based MIDs in 1H'08. This MID platform will be coupled with Linux* as the supporting OS to harness the advantages of a smaller footprint, better power management, flexibility, performance, and cost.

Mobile Internet Devices are targeted at the following usage models:

- Access information, content and services. Whenever. Wherever.
- Communicate through email, IM, chat or blogging.
- Be entertained with videos, games, music, pictures or TV on the go.

Incubator Sub-projects for the Mobile & Internet Linux Project Include:

- **Image Creator.** The image creator is a tool aimed at aiding the development of mobile and consumer electronics devices by enabling the quick creation of platform-specific build environments and target file systems with customized content chosen from a list of available feature sets.
- **Power Policy Manager.** The power policy manager is focused on extending and enhancing existing Linux power management capabilities to provide a comprehensive and extensible power management framework—a critical aspect of Linux for mobile and consumer electronics devices.
- **UI Framework.** The user interface framework is addressing the mobile Internet device home screen interface and its underlying framework, which is GTK+-based and uses the Hildon application framework. Customizability is a key aspect of the UI framework project with a focus on easy reorganization and extension of the UI.
- **Browser.** Based on a Firefox* core, the browser is a full-featured Web browser that supports a wide variety of plug-ins for an uncompromised Internet experience. The browser project is focused on extending the browser core with features such as a simple, finger-driven UI and Hildon integration.
- **Multimedia.** The multimedia project is home to multimedia application development that will support audio and video playback and photo viewing, along with content management through a mobile-optimized interface. The multimedia application will support either the Helix* or GStreamer multimedia frameworks.
- **Image Capture.** Image capture will focus on allowing the user to capture, manage, and share both pictures and videos using a built-in camera.
- **Chat.** The Chat project is built on Telepathy's framework and specification, and inherits many of its benefits. It provides a robust framework to support popular messaging protocols.

Intel's Knowledge, Experience and Commitment

Intel is committed to open source software solutions. For the past decade, we've been a significant contributor to Linux and have developed deep relationships with the open source community, and ecosystem across all segments, to align Intel technologies to Linux solutions. In addition, we've been building Linux solutions for our own products in areas such as personal health, communications, and consumer electronics. We have domain expertise in performance, power management, wireless, graphics, and related technologies and usage models for Linux on mobile and consumer electronics devices.

Learn More

To learn more about how to be a part of this unique community and opportunities to build OSS solutions in the mobile space, go to <http://moblin.org>.

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