



Key Facts

The first highly optimized Linux operating system for mobile and wireless devices

Deployed in over 25 Million Mobile Phones

Delivers pre-built and validated support for ARM9, ARM11, and XScale™-based reference platforms from leading mobile and wireless semiconductor vendors

Standards Based Open Platform

Flexible and fully functional modern operating system enabling differentiated and cost effective mobile phone designs

Qt Extended and Montavista Freedom to Innovate and Customize

As the mobile handset market matures, increased competition and mass-market commoditization have forced device manufacturers to aggressively differentiate their offerings. Handset manufacturers seeking sustainable competitive advantage must look beyond proprietary operating system platforms and cookie cutter graphics interfaces that restrict control and customization of the phone architecture and visual presentation. MontaVista's Mobilinux and Qt® Extended deliver an open flexible mobile phone development platform that enables manufacturers to innovate at the pace of the market.

The solution

Handset manufacturers are discovering that traditional proprietary platforms no longer support the advanced services that Mobile operators require. The solution is a modern operating system environment combined with Qt Extended that addresses today's advanced application and multimedia requirements while also providing the ability to deliver unique, branded experiences to the user.

As an open source platform, Mobilinux and Qt Extended give manufacturers complete control over the software in the phone, and simultaneously provide unlimited freedom to innovate and create highly customized phone software and user interfaces. The solution is extremely scalable and can be used to build different types of mobile phones for different market segments. Its ability to serve as a common platform across the handset portfolio can reduce the amount of testing necessary to deploy new applications and services and facilitate interoperability across multiple networks. Processor architecture support includes silicon from Intel®, Freescale®, Texas Instruments® and Samsung®.

MontaVista's Mobilinux is the industry standard Linux mobile phone platform and is currently deployed in over 25 million phones by manufacturers in every segment of the market. Mobilinux provides an operating system with a minimum memory footprint that has been optimized for minimal power consumption through tight integration of the OS and the underlying hardware. Dynamic Power Management (DPM)-enabled device drivers offer highly tuned control over the power usage of individual software components.

Feature and smart phones are typically based on a dual core architecture including an application-focused operating system as well as a hardened real-time operating system to handle the extreme response-time requirements of communicating between the protocol stack and the back-end infrastructure.



**Code less.
Create more.
Deploy everywhere.**

Qt Extended and MontaVista–Freedom to Innovate and Customize

Key Features

Flexible architecture to help prevent commoditization and enable differentiation

Advanced real-time with Kernel Mutexes, Prioritized Interrupts, and High Resolution Timers

Dynamic power management optimized for mobile devices

Size Optimizations, including “execute in place”

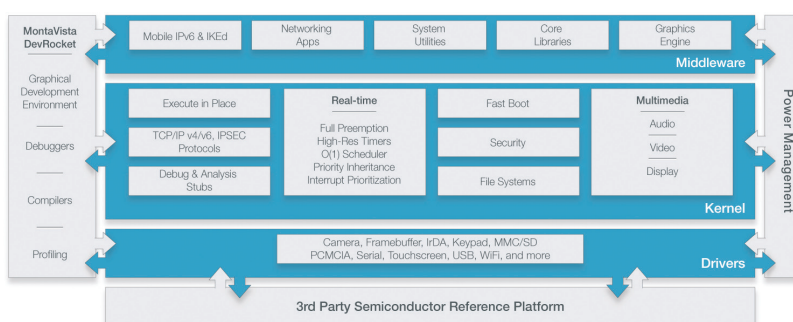
Boot and application execution tuning

Latest Open Source technology

Compiler enhancements for improved system price/performance

Robust Mobile OS Development Tools

Failing to meet response-time requirements leads to dropped calls, a behavior that is unacceptable to an operator whose customers will often blame the network rather than the device. Mobilinux features advanced real-time support that gives manufacturers the choice to create their products using a single chipset that handles both baseband and application processing to deliver high-end functionality at significantly reduced prices. High resolution POSIX timers and O(1) Real-time Scheduler with up to 1024 levels of priority are also included. In addition, Mobilinux delivers a full-featured Linux networking stack to manage technologies such as streaming video, voice, DVB, e-mail, Internet, and VoIP.



Mobilinux product architecture diagram

Numerous powerful development tools are available for the Linux platform, enabling choice and flexibility for software developers. In particular, Eclipse-based development tools have made software development for Linux even easier. Mobilinux includes tools to reduce the footprint and to save on RAM and Flash. In addition, Mobilinux provides system measurement capabilities, from boot-time measurement, memory usage analysis, to real-time measurement and platform execution tracing.

Qt Extended atop Mobilinux form a complete world-class platform for smart and feature phone manufacturers. Together, MontaVista and Qt Extended enable handset manufacturers to get to market faster with lower costs and higher margins.



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