

Wind River Platform for Moblin

Mobile Internet devices (MID) are rapidly becoming the high-demand consumer devices that industry analysts long predicted. With form factors ranging from multimedia consumer electronics to enhanced personal digital assistants to next-generation smartphones, MIDs require a flexible, feature-rich platform to allow original equipment manufacturers (OEMs) and original design manufacturers (ODMs) the flexibility to build these multiple form factors from a common software investment. Moblin is an open source project for building Linux-based platforms optimized for next-generation mobile devices such as netbooks, MIDs, and in-vehicle infotainment systems. Moblin is now recognized as a leading open source platform for building next-generation MIDs. Wind River Platform for Moblin is a commercial product based on Moblin—a complete solution that includes value-added software components, certified customer support, a managed, complementary ecosystem, and highly experienced professional services.

Wind River Platform for Moblin delivers a validated, fully compliant foundation platform for building Moblin-based mobile devices. The platform is enhanced by cutting-edge Wind River technology and select, pre-integrated partner components. Wind River Platform for Moblin's product approach delivers a predictable way to innovate and differentiate. With a leading role in open mobile operating systems, vast experience in mobile handset software development, and long involvement in Moblin, Wind River offers the only complete product solutions for Moblin-based products.

Optimized System Framework

With form factors ranging from multimedia consumer electronics to enhanced personal digital assistants to next-generation smartphones, MIDs require a flexible, feature-rich platform to allow original equipment manufacturers and original design manufacturers the flexibility to build multiple form factors from a common software investment.

A MID must deliver a controlled, secure environment, using limited system resources, tightly managed power, and much smaller screen sizes than a notebook or a personal computer. A MID is truly a mobile device with all the characteristics of a sophisticated embedded software stack. To ensure a smooth adaptation of the Moblin open source software to the embedded device, Wind River's system framework does the following:

- Provides a common API and specification for all applications
- Delivers an ecosystem of compatible applications
- Manages application life cycle, power management, security, interprocess communication, software upgrades, global settings, and application bundle load/remove

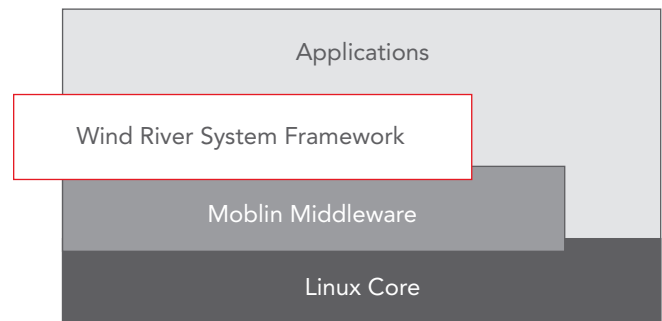


Figure 1: Wind River Platform for Moblin

The system framework reuses components that exist in Moblin, such as OSPM and GStreamer, with a framework layer offering the following:

- A documented and proven method of using existing components
- An implementation of needed fundamental components such as application manager, resource manager, and software update

Advanced Moblin User Interface

Wind River Platform for Moblin offers a user interface optimized for both MID and smartphone form factors as a core component of the platform. A creative visual language for user interface development enables sophisticated entertainment, information, communication, and productivity use cases for differentiated product features.

Using advanced browser technology, a rich level of mobile Internet browsing facilitates online communication with friends, colleagues, and family. Wind River 3G wireless telephony technologies offer several options for mobile communications.



Figure 2: Wind River Platform for Moblin reference user interface

Using advanced browser technology, a rich level of mobile Internet browsing facilitates online communication with friends, colleagues, and family. Wind River 3G wireless telephony technologies offer several options for cellular mobile communications.

A Complete Solution

To accelerate mobile product development, Wind River has pre-integrated software components, services, and solutions from select partners, such as social networking, online stock information, and weather forecasts. Our partners' technologies extend the capabilities of Wind River Platform for Moblin, speed your product development time, and reduce costs.

Testing

Wind River provides a complementary test management tool for Moblin to cut development costs, improve quality, and reduce testing cycle time. Each release of Wind River Platform for Moblin is validated through a rigorous process that combines hundreds of manual test cases and Wind River's test framework, with tens of thousands of automated test scenarios and the Moblin OSV Distribution Checker suite of tests. Wind River's test management tool can be easily integrated with your proprietary test suites, test suites from third parties, or open source test suites.

Services and Support

Wind River Platform for Moblin is backed by Wind River Support, a Service Capability and Performance (SCP)-certified organization. Our customers have consistent, worldwide access to the industry's leading experts to ensure that projects are completed on time and within budget.

A CMMI Level 3–certified organization, Wind River Professional Services offers extensive experience in mobile systems integration. We apply expertise in user interface design, multimedia support, power management, and fast boot to provide services tailored to the needs of mobile device development, including subsystem optimization, services integration, and application migration.

As a complete solution offering, Wind River Platform for Moblin delivers predictability that roll-your-own Moblin projects or Linux-only vendors lack because of Wind River's ongoing investment in developing a commercial, road-mapped, validated Moblin platform for MID devices and smartphones. Leveraging the benefits of a commercial software solution offered by Wind River allows the cost-effective expansion from an initial, expensive, single SKU delivery to a whole portfolio of devices without creating significant additional Moblin-based engineering and quality assurance costs.

To learn more about Wind River Platform for Moblin, visit <http://windriver.com/solutions/mobile-handsets/>. To have a representative contact you, call 800-545-9463 or write to inquiries@windriver.com.