ANDROID SOLUTIONS AND SERVICES

Android has become one of the most popular and fastest-growing operating systems due to its openness, highly customizable features, and robust ecosystem. As Android moves into new device categories, its use requires deep embedded, industry, and security expertise to drive rapid innovation with high quality results. Wind River® Professional Services provides these vital capabilities covering a broad spectrum of silicon architectures and vertical markets, including medical, industrial, aerospace and defense, enterprise, and consumer devices.

Wind River is a founding member of the Open Handset Alliance and has completed over 150 major Android projects since 2007. Our worldwide development centers allow us to staff locally and resource globally.

Wind River Professional Services offers key features in our Android Solution Accelerators to assist customers in fulfilling their product requirements around connectivity, firmware management, multi-windowing, and a media center.

In addition, Professional Services delivers a unique mix of embedded, vertical market, and security expertise to develop high quality, differentiated Android-based products. We specialize in the following areas:

- Android BSP development and customization
- Boot time and performance optimization
- Android framework modifications and extensions
- User interface and graphics
- Security and management
- Third-party integration
- Android Compatibility Test Suite (CTS) verification
- End-to-end testing and automated tools

WIND RIVER ANDROID SOLUTION ACCELERATORS

Wind River Professional Services provides key features on top of the standard Android Open Source Project (AOSP) to fill real-world requirements in building next-generation Android devices. Offerings include the following:

- **Apple iOS Device Connectivity:** Enables access and playback of multimedia content from an Apple® iOS device when connected to an Android-based host system, such as a fitness equipment console, via USB or Bluetooth

WHEN IT MATTERS, IT RUNS ON WIND RIVER

- **Firmware Management:** Provides a secure firmware over the air (FOTA) solution for updating firmware and applications on Android devices
- **Multi-windowing:** Allows multiple applications to be displayed simultaneously in different user experience styles, including split screen, picture-in-picture, and desktop windows
- **Media Center:** Implements basic media sharing based on the Digital Living Network Alliance (DLNA) standard, allowing users to easily find, store, view, and play digital content located on DLNA devices
- **Fast Boot:** Reduces device startup time through several optimization methods, including Android Package Manager customizations, ability to resume from suspended system state, and driver performance optimizations
- **Secure Boot:** Verifies each stage of the boot process through a chain of trust and only allows authenticated software to be executed, preventing malicious code from being run without impacting performance
- **Data/Application Persona Separation (Lightweight Partitioning):** Provides application and user data security isolation for multiple domains or personas with strong disk encryption and customizable policy restrictions

WIND RIVER PROFESSIONAL SERVICES

Wind River Professional Services has a strong track record of guiding our customers through the complexities of embedded software design and implementation. Certified to CMMI Level 3 across all of our global development centers, our proven engagement methodology, timely delivery, and in-depth understanding of market and technology dynamics have made Professional Services a valuable implementation partner to our customers.

Professional Services welcomes the opportunity to discuss Android solutions for your specific needs. For further information, contact your local Wind River sales representative by visiting www.windriver.com/company/contact, calling 800-545-WIND (9463), or sending an email to inquiries@windriver.com.