



Wind River Automotive Services Catalog: Android Platform Maintenance

OFFLOAD COMPLEX BSP AND SECURITY UPDATES TO THE INTEGRATION EXPERTS

Maintaining Android platforms in automotive environments requires continuous integration of security and board support package (BSP) updates – among the most resource-intensive aspects of platform maintenance. These updates provide critical performance improvements, vulnerability fixes, and hardware enablement, yet aligning them with OEM/Tier 1 customizations adds complexity. Without disciplined impact analysis, rigorous testing, and compliance validation, BSP and security updates can introduce instability, regress performance, or compromise certification readiness.

Wind River helps customers overcome these challenges through specialized Android lifecycle services:



BSP INTEGRATION AND IMPACT ANALYSIS

- Integrate BSP releases (kernel, HALs, firmware, bootloader) to ensure compatibility with evolving SoC and hardware updates.
- Perform impact analysis and resolve conflicts with OEM/Tier 1 customizations.
- Conduct regression and compliance testing (CTS/VTS) to ensure platform stability and certification readiness.



SECURITY UPDATES AND RISK ANALYSIS

- Analyze monthly Android security bulletins and relevant AOSP changes for security and stability impact.
- Provide risk-based recommendations aligned with automotive cybersecurity standards (ISO 21434, UNECE R155).
- Integrate selected patches and fixes into customers' build trees on a scheduled cadence.



Business Outcomes

- Faster adoption of BSP performance, feature, and security updates
- Reduced integration risks and downtime
- Verified compliance and Google certification readiness

WHY WIND RIVER

With decades of embedded expertise and proven success in delivering production-grade software, Wind River enables OEMs, Tier 1s, and suppliers to meet performance, safety, and lifecycle requirements in the software-defined vehicle era.

To discuss how Wind River can help streamline BSP integration, security patching, and validation for automotive programs, visit us at www.windriver.com/contact.