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Wind River Studio Linux Services: Architecture and Implementation

Starting an embedded Linux project with a binary supplied by a hardware vendor is the fastest and easiest way to get to a proof of concept (POC). But embedded systems typically have unique, market-specific functional requirements. Moving from a POC to a deployable product takes a lot more system architecting, feature integration, and long-term management over the entire lifecycle.

Detailed planning in the initial phase is key to a successful embedded project. This planning should include full lifecycle scope, defining functional requirements and system architecture, identifying risks, and creating a detailed project plan.

Wind River® offers comprehensive solution services by an experienced team of industry experts who can interpret system requirements, architect platform options, and provide recommendations for meeting business, technical, and program goals. Our engineering expertise can help you accelerate time-to-deployment, increase quality, lower risk, and ensure greater long-term project success.

SOLUTION ASSESSMENTS

Our team of embedded experts can assess the full lifecycle requirements for your project. We look at your design architecture, security and risk tolerance, market specifications, and available hardware and software technologies to recommend a course of action.

- Detailed design phase planning
- Proactive risk matrix plan identifying major risks and necessary mitigation that could impact schedule and budget
- Architecture assessment, including the Linux platform, hardware, and application deployment environment
- Solution assessment of software add-ons such as over-the-air (OTA) updates, OS hardening, system integration, networking, 5G integration, and more
- Security assessment of risk profile, attack surfaces, software and hardware requirements, and security plan
- Detailed compliance matrix tracing requirements to standards and specifications
- Documented recommendations with supporting evidence for business and technical decision making

LINUX PLATFORM CUSTOMIZATION, OPTIMIZATION, AND IMPLEMENTATION

Many embedded systems have unique market requirements which must be met before deployment, such as features and customizations to meet specification and standards requirements. In addition, rigid deployment environments can require additional optimizations for performance and footprint.

- Assessment integration services for architecture, security, and solutions
- Project acceleration and tuning
- Integration of Linux packages with market-specific requirements for automotive, energy, industrial, and medical devices
- Board support package (BSP) creation and optimization
- Hardware boot loaders and driver support
- Performance tuning for speed and footprint
- OTA mechanism and fielded device updates
- End-of-life services

ACCESS TO EMBEDDED LINUX EXPERTS

Work with our team to quickly identify and prioritize the vulnerabilities based on a common vulnerability threshold (CVSS), severity of impact, and difficulty of attack and avoid ability. We work with you to build release plans to address critical and prioritized CVEs and defects.

- 10 global design centers
- 150 experts
- 24/7 online support
- Dedicated project engineer as needed

FOR MORE INFORMATION

Contact your local account team or salesinquiry@windriver.com .

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