

Automotive Services Catalog: Linux Platform Maintenance

STAY AHEAD OF CVES AND KEEP LINUX INSTALLATIONS PRODUCTION READY

Automotive software platforms are under constant pressure from cybersecurity threats and the pace of technology change. Keeping Linux up to date and compliant is essential for safety and reliability. However, sustaining that effort strains engineering teams and resources. Many OEMs and suppliers struggle to balance security, stability, and long-term support across complex Linux platforms. Common Vulnerabilities and Exposures (CVEs) accumulate daily, which can compromise safety and compliance without proactive patching. At the same time, updating kernels, drivers, and middleware can disrupt integrations and regress performance.

To address these challenges, Aptiv provides comprehensive Linux lifecycle management services to keep platforms secure, compliant, and stable throughout their lifespan:



Security and Compliance Management

- Ongoing scanning and reporting via a customer-accessible portal, including automated and on-demand scans, generation of software bills of materials (SBOMs), and reports in both human-readable and machine-readable formats (CycloneDX VEX)



CVE Monitoring and Mitigation

- Regular patching and emergency fixes for critical vulnerabilities, with collaborative prioritization that aligns with customer release plans



Defect Remediation and Quality Checks

- Skilled engineering support to identify and fix kernel, driver, board support package (BSP), and open source package defects, with emergency patches for critical issues and quarterly updates for prioritized fixes



Business Outcomes

- Reduced security risk through continuous monitoring, patching, and compliance management
- Stable, production-ready Linux systems that minimize downtime and rework
- Extended platform lifecycle with proven support for legacy environments