

DEVELOP: WORKFLOW AUTOMATION**MODERNIZE EMBEDDED SOFTWARE PROCESSES****THE CHALLENGE**

A supplier of automotive collision-avoidance equipment is seeing skyrocketing expenses for creation and maintenance of its device software. The cost driver is the need for increasingly advanced artificial intelligence software technologies that will help transform these systems from passive (warning drivers of potential collision risk) to autonomous (taking control of the vehicle to actively prevent collisions).

This transformation is causing longer software development times. At the same time, the software quality metrics are dropping, even as the cost of testing keeps rising. The software team is looking for ways to modernize its development with new tools, processes, and automation.

THE SOLUTION

By leveraging Wind River® Studio, the team can automate many processes it used to handle manually, including software build, source code management (using GitLab), security scanning capabilities (using integrated third-party tools such as Coverity SAST), and testing (using Studio Test Automation Framework).

With Studio, these steps can be incorporated into a shared software development pipeline hosted in the cloud, increasing the productivity of the entire development team while leveraging shared cloud resources.

THE RESULTS

As a result of this software process modernization, the company is seeing reduced time-to-market for new software releases and increased software quality. The workflow automation eliminates many mundane manual processes, and onboarding new developers to the team is easier.

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