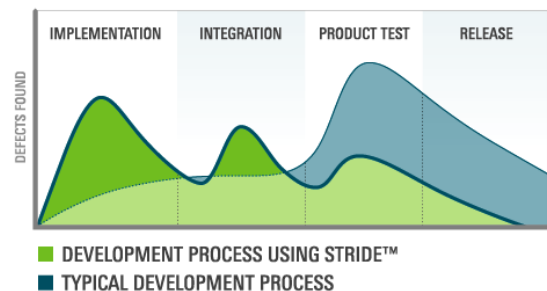


How Increasing Complexity of Embedded Devices Impacts Business

Software complexity outpaces development strategies and processes

The high density of functionality being designed into embedded devices is resulting in exponentially increasing software complexity. Software engineering organizations across industry sectors are struggling to address the challenges of developing and delivering complex embedded software as a part of their solutions.

In response, companies employ various software development strategies, such as offshore and/or distributed development, licensing of third-party software, outsourcing portions of a project, and leveraging expert contractors. Unfortunately, all of these strategies further increase complexity. The difficulty of integrating so many different software components, developed by so many different people, throughout various locations and time zones can severely challenge the development process.



One of the most visible and damaging symptoms of the complexity problem appears when the Product Test team detects and reports disproportionately high volumes of software defects, *because this team is often first to extensively exercise the software as an integrated whole*. Already late into the development process, software engineers must respond by addressing and fixing an overwhelming number of defects in the face of a looming product release deadline. This all-too-familiar scenario results in:

- Extra test cycles and resources, adding unplanned development time and costs
- Missing or dropped features, as a trade-off to meeting tight deadlines and resource constraints
- Compromised quality, impacting reputation and revenues
- Delayed product releases, resulting in competitive losses

How should an organization respond to these challenges?

Fundamentally, engineering organizations need scalable technology that enables software development teams to test and verify device software **prior to Product Test**. S2 Technologies' **STRIDE™** is an **embedded software verification platform** that enables software engineering organizations to employ cost-effective testing and code verification **throughout the development cycle**. With STRIDE, development teams can create reusable test assets that automate unit and component testing, white box integration testing, and regression testing.

STRIDE's unique embedded verification and automation technology offers even greater efficiencies by supporting:

- Continuous integration
- Hardware/software co-development
- Parallel development
- Agile development practices

Industry leaders have selected STRIDE to transform their software development processes, enabling their software organization to automatically and continuously detect and correct defects early in the development cycle.

MAJOR CUSTOMERS



Contact us to schedule a demonstration at sales@s2technologies.com, or call **760-635-2345**.