CUSTOMER STORY – AUTOMOTIVE & MANUFACTURING
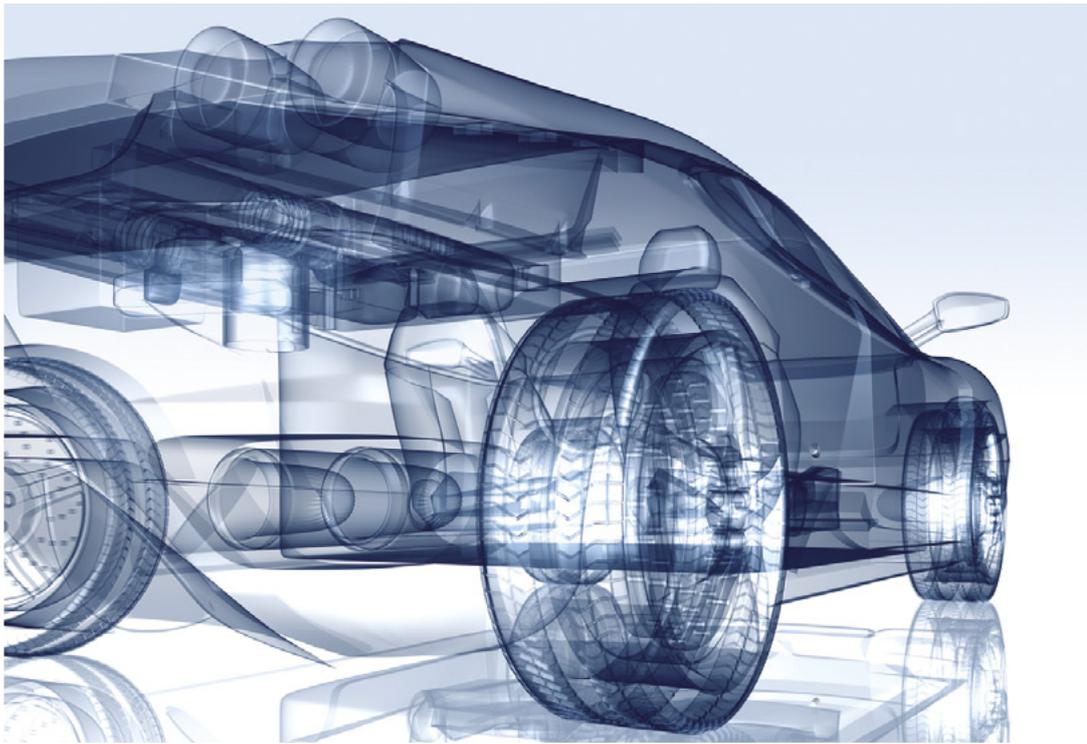
Testing & Automating Automotive Innovation

Upgrade of PLM platform to Siemens Teamcenter

Background

The client need

To accelerate and streamline product development, a leading supplier of advanced automotive technology systems decided to upgrade its product lifecycle management (PLM) platform to Siemens Teamcenter.

Why SQS

The client company, determined to bring the highest standards of testing to the multifaceted migration, chose SQS as its testing partner for one important reason: Siemens chooses SQS as its testing partner. Since 2005 Siemens has used SQS as its one and only testing partner for its Teamcenter suite of software. For the automotive tech leader, this relationship and SQS' existing automation framework offered a powerful advantage.

Challenge

The client company was simultaneously upgrading its CAD software, CATIA, and introducing Siemens NX to design functionality and customization capabilities. With multiple upgrades and a data migration all occurring at once, the risk of system defects was extremely high.

Solution

The Automation Framework

Over that last decade, SQS has created a Reusable Automation Testing Framework for Teamcenter that is updated and adjusted with every change — big or small — to the software suite.

"Our Framework is **in lockstep with the development and evolution of Teamcenter.** As it advances and innovates to **meeting the changing needs of its global PLM client base,** we adjust our testing framework. In the automotive industry, the pace of product development and output cannot slow or falter. Our ready framework is an important part of ensuring that upgrade and transitions to automation **do not slow progress and innovation.**"

M.S. Subramanian
Director, Connected Car Practice
SQS Software Quality Systems

The Testing Solution & Team

To support this client's upgrade and transition to automated testing, SQS established a combined on-site and offshore team of test analysts, test engineers, a test manager and an on-site client manager. The SQS on-site manager coordinated all testing between the client teams and the SQS quality team based in India. Mirroring the assembly line approach that has defined automotive manufacturing, SQS built a progressive system of testing checks to ensure quality at every level of software development. Before software can move on from a phase of development (development phase, production phase or UAT phase), it must pass SQS' objective-focused validation testing. If it doesn't pass, it doesn't advance to the next phase of the software "assembly line."

Benefits for the Customer

Over the course of the upgrade to Teamcenter, SQS developed approximately 200 test cases for the client and automated around 50 percent of them to support the company's migration to test automation. In addition, the client engaged SQS for an extensive Testing HealthCheck, an SQS service that assesses, measures, fixes and improves testing processes. Over the course of the Testing HealthCheck, SQS built a suite of 50-plus test cases and created a new foundation of assets for the client's IT software testing.

Contact

If you are interested in SQS' service offering regarding testing and quality management, please do not hesitate to send us an e-mail: info@sqs.com

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