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RELIABLE SOFTWARE LIBRARIES WITH ADESSO'S EXPERT TESTING SOLUTION

EFFICIENT AND HIGH-QUALITY SDK TESTING SOLUTION

Bühler faced a challenge in ensuring the thorough testing and high quality of their software libraries accompanying their hardware platform, which posed risks to stability, performance and customer satisfaction. To address this, they partnered with adesso, leveraging their expertise in embedded software testing and quality assurance, resulting in improved software quality, enhanced stability and a competitive advantage for Bühler.

CHALLENGE

One of Bühler's Business units needed to ensure that the software libraries accompanying their hardware platform were thoroughly tested and of the highest quality. This collection of libraries, also known as SDK (Software Development Kit) serves as a crucial component for internal teams within the company. But the lack of comprehensive testing was putting stability, performance and customer satisfaction at risk.

SOLUTION

Bühler recognised the urgent need for a robust test suite to ensure the reliability and functionality of their SDK and partnered with adesso, leveraging our expertise in embedded software testing and quality assurance.
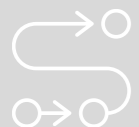
Our collaboration included close interaction with the team responsible for developing SDK, to gain a deep understanding of its architecture and functionality to implement their new test suite.

BENEFITS

The impact of working with the Bühler Unity team on their SDK has been transformative. Here are some of the key achievements in the overview:

> Improved software quality

> Enhanced stability

> Competitive advantage

> Increased customer satisfaction

Read more about the benefits on the next page

90+ %
APIs test coverage

Testing time
drastically reduced during release phases

SW Quality
significantly increased due to early bug detection

MORE ON THE BENEFITS

Bühler experienced a significant improvement in the quality of its software library. Critical bugs and issues were identified early in the development cycle, allowing for prompt resolutions and from now on preventing potential customer dissatisfaction.

The extensive testing ensured that the SDK became more stable and of higher quality. The reliability and the performance of the libraries increases user satisfaction and retention.

METHODS AND APPLIED TECHNOLOGIES

Drawing on our experience, we developed a meticulous testing strategy tailored to Bühler's unique needs and already existing services and infrastructure.

Our approach was based on best practices in CI/CD automated testing methodologies, meticulously validating core functionality by implementing a suite of end-to-end tests running on real devices, from user interface to hardware outputs.

C | agile | testing

> *adesso's embedded software testing expertise elevated our SDK to new levels. Our development process became more reliable, ensuring customer satisfaction. The collaboration with adesso brought tangible benefits and increased the (internal) customer satisfaction."*
>
> **Daniel Sieber,** Project Manager Embedded Platform, Bühler Group

ABOUT THE CUSTOMER

Bühler Holding AG is a Swiss multinational plant equipment manufacturer based in Uzwil that holds leading market positions worldwide in the fields of technology. The core technologies of the Group are in the field of mechanical and thermal process engineering.

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