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OVERVIEW //

The customer

Headquartered in Switzerland, Belimo is the world market leader in the development, manufacture and distribution of field devices for the regulation and control of heating, ventilation and air conditioning systems. Sensors, control valves and damper drives form the core business.

The project

Belimo Energy Valve[™] is a new product range which enables transparent monitoring of the heating or cooling system on the one hand and simplifies the management and billing of thermal energy on the other. adesso Schweiz AG was one of the testing partners.

Key project figures

Project start Project end 07/2020 11/2021

Technologies used

- > JIRA
- > Atlassian Confluence
- > Systems Engineering
- > Spring
- > Rest

adesso Schweiz AG

As an independent consulting and IT service provider, adesso ensures the success of your projects and the future security of your applications through consulting and software development. Our mission: to optimise core business processes through the targeted use of modern IT. We focus on customer proximity and flexibility.

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ADESSO AS TESTING PARTNER FOR BELIMO: BELIMO ENERGY VALVE[™]

", Thanks to the partnership with adesso, we were able to ensure that the software system of the new Belimo Energy Valve™ meets our high quality requirements.""

Valentin Gresch, Head of Product Engineering Zone Valves, Belimo

Startig position

To guarantee the successful launch of the latest generation of the Belimo Energy Valve[™], Belimo was looking for a reliable testing partner.

Belimo Energy Valve[™] enables pressure-independent flow control and transparent monitoring of the heating or cooling system. Measurements, calculations and visualisations of important system data and the performance reports provided enable energy-efficient system operation. The special feature of the Belimo Energy Valve[™] is that it can be connected to the Belimo Cloud in order to allow easy access to the data and reports at any time, from anywhere.

With the MID version of the Belimo Energy Valve[™], Belimo complements its product range with an IoT-based cost accounting system characterised by high accuracy and reliability and enables simple and efficient energy cost accounting.

The special feature of the product is the wide range of communication interfaces - it can be configured and monitored with the smartphone app and browser-based web applications with cloud access. Belimo has found a reliable partner for testing these applications in adesso Switzerland.

The solution

In order to test the Belimo Energy Valve[™], adesso created and implemented the test concept and the test processes of the entire system based on a system engineering approach.

This means that the process ran at all levels, from the overall system to the planning and implementation of the system acceptance tests with the product managers, the coordination of the software and firmware tests, the setting up of the change management (change control board, troubleshooting) and the writing of the test report.

A special case was the creation of the automated test cases for the integration and acceptance tests of the sensor module in the heat meter.

Customer benefit

Due to the structured and systematic procedure, a high level of test coverage was achieved. The testing ensured that the products were tested by the planned date and that the release went without incident.

In addition, the identification of interfaces and dependencies, the clear assignment of responsibilities for verification, and the rapid exchange of test results with the development teams have contributed significantly to a high degree of software quality.

The well-documented tests also allow reuse in later product extensions.

