

# Gigatronik

Micro Focus helps Gigatronik meet the increasing demands of the automotive industry.

## Challenge

Leading automotive electronics services provider, Gigatronik, needed to improve its requirements management and development quality to meet the needs of a demanding customer base.

## Solution

### GIGATRONIK

When premium automotive manufacturers, such as Audi, BMW, Daimler and Porsche, need automotive electronics and instrumentation for their latest model, they turn to specialist development services provider, Gigatronik. Founded in 2001, Gigatronik's 450 employees work in

five locations across Germany and Austria. The company's comprehensive product range is used to power and control automobiles and includes control device software, operating system configuration, information and analysis systems, PLM systems, testing systems and cross-departmental test stations as well as on-board and off-board diagnostic software. Given the importance of these systems for the safety of automobiles, reliability and quality are paramount. The company employs Capability Maturity Model Integration (CMMI) to drive software quality but needed to update its tools and processes to ensure higher levels of process maturity and improved efficiency.

### GREATER SUPPORT OF DEVELOPMENT COORDINATION AND PERFORMANCE REQUIRED

The automotive market is highly competitive and manufacturers are constantly pushing for the latest technology to deliver competitive advantage. The part that Gigatronik plays in its customers' market success demands efficiency, and its product teams recognized the need to improve development speeds by eliminating manual development processes.

"To ensure market success, it is extremely important that the development of software and IT solutions employed during the prototype phase are based on the latest technologies and keep pace

**"Automated configuration and change management from Micro Focus gives us an overview of all versions employed in the application lifecycle. This virtually eliminates, or reduces to a minimum, all potential sources of defects due to compatibility problems or outdated versions."**

### SVEN SAUERZAPF

Head of Diagnostics & Data Management  
Gigatronik GmbH



## At a Glance

### ■ Industry

Computer Services

### ■ Location

Germany

### ■ Challenge

To achieve even higher levels of maturity and support development coordination and performance, Gigatronik wanted its technology solutions to be fully integrated.

### ■ Solution

Use StarTeam as a centralized platform for communicating between development teams and to give developers visibility of the current status of development at any time from any location.

### ■ Results

- + Improved collaboration and customer loyalty. Customers can insert changes directly into the configuration and change management system and check on the progress or status of their changes at any time
- + Increased automation, which speeds up the software delivery process
- + Improved software quality

with the development cycles of premium manufacturers,” explains Sven Sauerzapf, Head of Diagnostics & Data Management at Gigatronik.

Software drives the functionality of the company’s services, including the development of components, functions and simulations; systems integration and networking; vehicle integration as well as diagnostic, information and testing systems. This means that Gigatronik must pay particular attention to quality management and quality assurance measures in its software development practices. The development team needed to capture the required functionality and manage any changes in order to catch and resolve any quality issues in an efficient manner.

In order to ensure the efficiency of its software development processes and a uniformly high level of quality across its software developments, Gigatronik employs Capability Maturity Model Integration (CMMI), which ensures quality software development by enabling development teams to use a systematically prepared collection of proven, specialized practices and well-defined requests. To achieve even higher levels of maturity and support development coordination and performance, Gigatronik wanted the technology solutions to be fully

integrated, finding the solution in Micro Focus® StarTeam® and CaliberRM™.

### **OPEN APPROACH TO APPLICATION LIFECYCLE MANAGEMENT**

Gigatronik initially started using StarTeam for the development of new software and systems as it provides an open, flexible tool to record and update various development activities in the application lifecycle. As a centralized platform for communicating between development teams, StarTeam gives developers visibility of the current status of development at any time from any location.

Following the successful adoption of StarTeam, the company decided to address software requirements management and architecture design through CaliberRM. This enterprise software requirements-management tool ensures that application development meets customer needs.

The open approach to application lifecycle management played a major role in Gigatronik’s adoption of the products into its software development operations. As a result, the company’s development teams are more productive and efficient and its products more reliable and delivered to market faster.

### **Results**

The benefits of this approach are felt across Gigatronik’s impressive customer base. Previously, customers sent change requests via email—a manual environment in which errors could occur. Now, customers insert changes directly into the configuration and change management system and can check on the progress or status of their changes at any time.

CaliberRM ensures that the software Gigatronik develops for its customers fully meets their requirements, and because the solution supports standardized electronic processes based on Requirement Interchange Format, customers can exchange requirements definitions and documents starting from the initial phases of software development without incurring losses.

“This approach has helped us improve collaboration and raise the level of customer loyalty,” says Sauerzapf.

The quality of the software developed by Gigatronik has improved significantly through automation. Once development is complete, the finished applications are created automatically and all data is double checked, the code compiled and an executable install-shield program created and linked to a setup file. This

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process is supported by a build server linked with StarTeam, and it is now possible to process hundreds of thousands of files and large volumes of data, significantly improving productivity, performance and reliability.

“Electronic stabilization control systems must function perfectly, and diagnostic systems must

not leave open any questions regarding the causes of a defect,” says Sauerzapf. “Automated configuration and change management from Micro Focus gives us an overview of all versions employed in the application lifecycle. This virtually eliminates, or reduces to a minimum, all potential sources of defects due to compatibility problems or outdated versions.”

For Gigatronik, the products and approach that Micro Focus has delivered now enable greater control, visibility and quality of its software products to automotive customers who appreciate defect-free, high-quality software designed to provide vital competitive advantage.

**“This approach has helped us improve collaboration and raise the level of customer loyalty. Increased automation also helps speed the product’s delivery.”**

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