



SAP Business Transformation Study | Healthcare | Medtronic

How Can Automating Defect Testing Speed the Availability of New Medical Technology to Patients?

Patients and medical professionals around the world depend on medical technology, solutions, and services from Medtronic. To help develop new healthcare innovations more quickly, the company was looking for a way to improve its software testing environment. The goal was to make developers more responsible for defect detection and correction in order to resolve issues earlier in the development cycle.

Having successfully used the SAP® Quality Center application by Micro Focus for quality testing and the SAP LoadRunner application by Micro Focus for performance and functionality testing under load, Medtronic decided to expand use of these applications to defect detection and correction. Now, 50% of defects are detected during design – up from 5% previously – accelerating testing and lowering costs. The result is that new medical solutions can get to market faster – helping save more patients' lives.





Speeding Healthcare Breakthroughs with SAP® Quality Center and SAP LoadRunner



Medtronic
Fridley, Minnesota
www.medtronic.com

Industry
Healthcare

Products and Services
Medical products and services

Employees
85,000

Revenue
US\$29 billion

SAP® Solutions
SAP® Quality Center
application by Micro Focus
and the SAP LoadRunner
application by Micro Focus

Medtronic is a global leader in taking on healthcare's greatest challenges through technology. The company saw improving its software testing environment as a great way to speed new solutions to market and make them more cost-effective.

Before: Challenges and Opportunities

- Shorten time to market and save costs
- Provide for comprehensive regression testing
- Make developers more responsible for defect detection and correction
- Shift defect detection "to the left," meaning earlier in the software development lifecycle

Why SAP

- Success over the last 10 years with SAP Quality Center for quality testing and SAP LoadRunner for performance and functionality testing under load
- Need for continued integration with existing SAP software

After: Value-Driven Results

- Defined and automated processes, developed a regression test suite, and standardized the testing process
- Improved the efficiency of the change management process by focusing on the testing of "what changed"
- Experienced near-zero defect leakage in production by shifting left to catch defects as soon as possible
- Introduced an integrated change management solution using SAP software that includes requirement and defect management, reporting, and automation
- Shifted performance testing to the left by making performance part of the development process

"These solutions help us find defects earlier in the software development process, allowing us to **reduce costs and speed up testing processes by a huge margin. SAP LoadRunner by Micro Focus was the key solution we needed to accomplish these goals and shift left."**

The Testing Team at Medtronic

35%

Of tests automated – up from 10%

50%

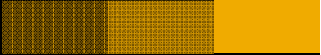
Of defects detected during design by "shifting left" and detecting defects earlier – up from 5%

<5%

Defect leakage in production

10 years

Of success using SAP Quality Center and SAP LoadRunner



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