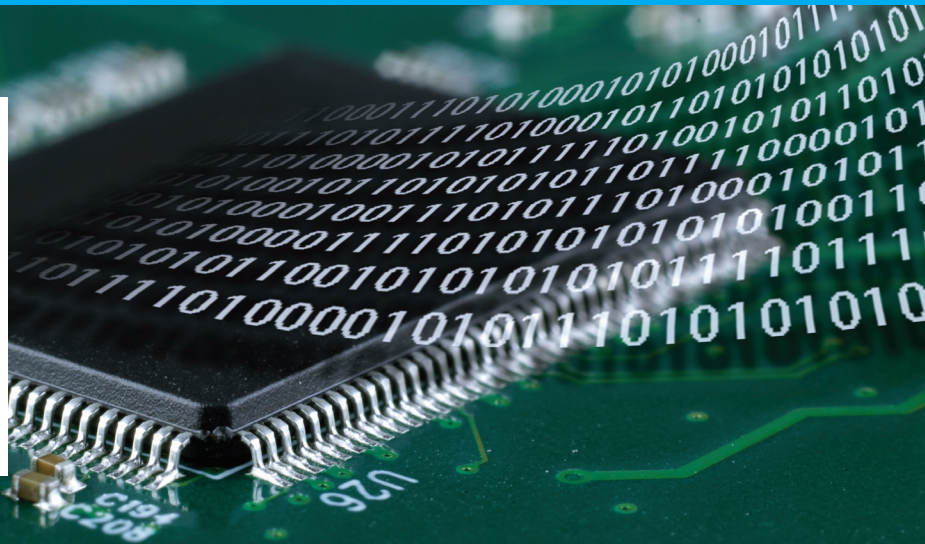




Fujitsu selected Polarion because:

“Polarion delivers the best price-quality ratio”



## The Situation

It is of primary importance to deliver a certain level of software quality in the automotive industry, which can be strongly supported through a suitable tool. To achieve this, Fujitsu Semiconductor Europe (FSEU) set up a Quality Initiative project. The final goal of this project was to achieve compliance with SPICE Levels 2 and 3.

The company worked mainly with Microsoft® Excel® and Word, and therefore had two processes for each task, which was both time-consuming and error-prone. For projects with 6 to 7 users, the company usually produced 30 to 40 documents.

Another big pain point of this method was traceability, which was very hard to achieve through links between different documents. Fujitsu Semiconductor Europe used Subversion (SVN) for its document management, while Bugzilla was the tool used for bug/ issue tracking.

Any potential new Application Lifecycle Management (ALM) solution had to support the company's process, improve its efficiencies, plus facilitate traceability with easy linking, and automated tracking of artifacts.

In the Requirements Management field, the company needed impact analysis, shared development through a tracked exchange of data with customers, explicit workflow for different artifact types, reporting that would reveal the status of the project at any time, and overall cost efficiency.

## The Selection

The evaluation and decision process took one year, from the beginning of the evaluation until the purchase. A dedicated team organized the evaluation process into 3 phases:

1. Initial market review to identify candidate solutions

and cull solutions deemed unsuitable for reasons of technology, features, and high cost.

2. Evaluation of the features of “short-listed” candidate solutions through vendor presentations and question-answer interviews, and delivery of use cases to vendors to evaluate their chances of fulfillment.
3. Analysis of the cost-quality ratio through a Total Cost of Ownership (TCO) evaluation including license models and costs, initial costs such as set-up and training, and ongoing maintenance costs.

The company evaluated several other tools that are widely used on the market.

Fujitsu Semiconductor Europe finally chose Polarion because it not only delivered the best quality-price ratio, but it also satisfied all the company's technical requirements.

## The Solution

The installation of Polarion had to be reliable, and the implementation proved to be quick, without any previous proof of concept. Before the production roll-out, critical aspects were tested on a staging server.

Fujitsu Semiconductor Europe now uses the unified Polarion platform for requirements management, change management and test case management. Polarion is integrated with Vectorcast for unit tests (hardware and the testing tool are linked using the Polarion Web Services API), and is connected to Sparx Systems® Enterprise Architect® for UML modeling. Bug Tracking is now covered by Polarion's integrated Work Item tracker. The company also uses Polarion's open API to create its own extensions to integrate with various state-of-the-art software development tools.

# 80%

time reduced on traceability management



### Environment

120 users in  
3 locations, localized for Japanese and Chinese users



### System Specs

Self-hosted, Fujitsu Primergy RX 300 S5 server, running Red Hat Enterprise Linux



### Products

Polarion REQUIREMENTS  
Polarion ALM  
Polarion PRO



### Conclusion

“A tool with a best price-quality ratio. That's why we choose Polarion.”  
Uli Markert, Supervisor Software Services

Polarion is hosted on a single server located in Linz, Germany. The initial production roll-out was used by 60 employees for 30 projects. Users were quickly brought up to speed by a Polarion Consultant who held a workshop in Linz. The custom workflows were configured fast and trouble-free, and the ease of the system configuration enabled the company to further save on consulting and service costs.

An important goal for Fujitsu Semiconductor Europe is to standardize and harmonize the processes developed in different projects, and then create a mature and ready-to-start environment for all new projects. The objective is to emulate Polarion's unique approach and abilities that provide out-of-the-box templates to develop projects that encompass all the company's industry knowledge and internal best practices.

The Polarion solution has been expanded to include additional users and projects with additional installations at Fujitsu in Japan.

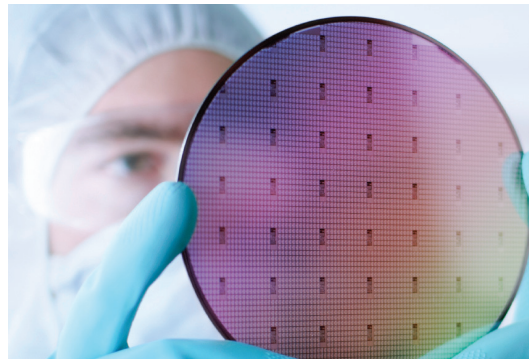
## The Benefits

Fujitsu Semiconductor Europe concludes that Polarion has delivered these main benefits:

- Polarion's designed-in **traceability support saves significant time**. Before, the company invested 20-25% of project time just managing the process with Excel and Word. With Polarion, the traceability is achieved by "pressing a button," and the time invested is **reduced to 5-10%**.
- The **predefined workflows prevent deviations** from the process that could result in errors and oversights.
- The **easy exchange of data** and the storage of all artifacts in a single tool **speeds up collaboration and approvals**, eliminating "information islands" and the need to use different tools to access different information.
- As a **web-based solution, Polarion avoids separated installations** at the workplace and allows easy collaboration between the company locations.
- Using Polarion to manage development processes helped Fujitsu Semiconductor Europe to successfully **reach SPICE Level 2** in a relatively short time. The next step will be to achieve the Workflow Definition ISO 26262 standard in Functional Safety.

## The Client: Fujitsu Semiconductor Europe (FSEU)

For many years, Fujitsu Semiconductor Europe (FSEU) has been developing microcontrollers for the automobile and industrial market. Many of the industry's major players trust our extensive experience and are close, long-term partners of Fujitsu Semiconductor Europe. We set great store in close and long-term partnerships with our customers - who can count on the reliable cooperation between our dedicated embedded software team and our hardware design centre. Our software teams in Langen, Munich and Linz, Austria, work together closely from the beginning of the development process through its completion. Software is tailored perfectly to the hardware. This philosophy of harmonized hardware-software co-design allows us to develop highly innovative solutions and products.



Fujitsu Semiconductor Europe is a system provider focusing not only on semiconductors, but also on embedded software development to provide full embedded system solutions. The company doesn't simply offer "chips," but rather integrated solutions.

Fujitsu Semiconductor Europe is a subsidiary company of Fujitsu Semiconductor Ltd., an international company with headquarters in Japan.<sup>1</sup> Its four development locations and five sales offices are focused on the automotive industry and employs a 400-member staff.

## About Polarion

Polarion Software's success is best described by the hundreds of Global 1000 companies and over 1 Million users who rely daily on Polarion's Requirements Management, Quality Assurance, and Application Lifecycle Management solutions. Polarion is a thriving international company with offices across Europe and North America, and a wide ecosystem of partners world-wide. For more information, visit [www.polarion.com](http://www.polarion.com).

<sup>1</sup> Fujitsu Semiconductor in Japan is also a Polarion customer.

## Predefined workflows prevent errors

Polarion is first to deliver a full ALM tool qualified for ISO 26262 / IEC 61508

Polarion can help improve the speed, quality, and productivity of your time-to-market development

## Easy exchange of data

speeds up collaboration and approvals

## SPICE Level 2 reached in short time