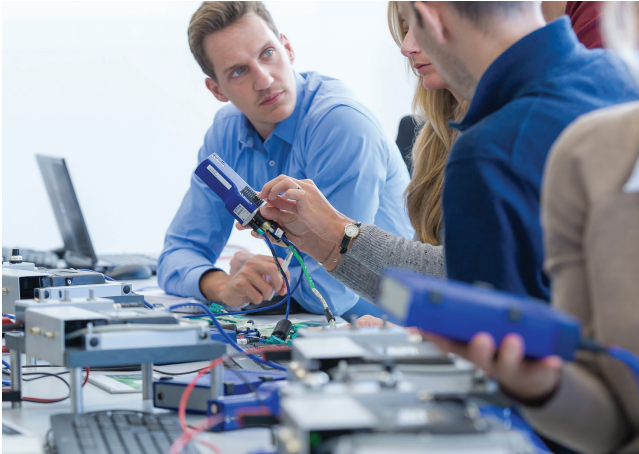


# CppDepend Case Study



## Company: ETAS GmbH

ETAS provides innovative solutions for the development of embedded systems for the automotive industry and other sectors of the embedded industry. As a systems provider, ETAS supplies a multifaceted portfolio that covers the range from integrated tools and tool solutions to engineering services, consulting, training, and support. Holistic IoT security solutions are offered via ETAS subsidiary ESCRYP. Established in 1994, ETAS GmbH is a 100-percent subsidiary of the Bosch Group, with international subsidiaries and sales offices in Europe, North and South America, and Asia.

### Challenges and Objectives

In our department we started the development of a new product using modern C++.

We must supply very reliable software which is developed and maintained for decades. This is why we need to keep an eye on code degeneration over many product releases.

### What made our solution stand out over others that you researched?

It was the native support of using Visual Studio solutions and the ability to create rules in a very interactive way. So it was a very intuitive and easy way to start.

### What feature of our product was most appealing?

The usage of CQLinq to define even complex rules like the usage of specific namespaces based on the code location, the allowed dependencies between modules or even changes on some exported API classes to keep them compatible.

### How do you and your team currently use the product?

Runs automated on a server and outputs via xml to a sonar machine. We track mainly the dependencies between our modules to be aware if there are forbidden dependencies introduced by code changes.

### What types of goals or tasks are you using the product to accomplish?

Verify that the defined architectural dependencies between modules are kept and violations are shown.

### What were the major pain points of your process prior to using our product?

No automated verification of dependencies lead to massive code degeneration over years, which make it expensive to maintain.

### Has this solution saved money and/or increased productivity?

It could save effort for maintenance and feature implementation, because it makes the technical debt transparent and we could react to that changes.

### What have you been most impressed with?

The way how easy rules could be formulated using the CQLinq language. The good integration, the easy way to create trend charts for communication.

### Is there anything else we should know?

I like the way your support is responsive to my problems and helps me, thanks for that.

#### ETAS GmbH

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