

# DIPS ASA ADOPTS ISOLATOR TO DEVELOP ITS APPLICATIONS

## INDUSTRY

**Healthcare sector**

## CHALLENGES

- Capture market share in international markets
- Introduce and unit test a new application written in .NET

## BENEFITS

- Faster tests
- Reduced testing complexity



## RESULTS

**40 - 60**

developers writing unit tests with Typemock

**>50%**

in test coverage over several months

**1,100 - 3,200**

tests


## THE COMPANY

DIPS ASA is a dominant player in the Norwegian healthcare sector with the largest customer base in the ERP field. The company's products have gained a reputation for high quality and its high growth rate is expected to continue.

DIPS ASA started inside the healthcare sector, and the DIPS-system has been developed through many years of close cooperation with hospitals. More than 20% of the company's staff consists of physicians, nurses and other professional healthcare workers. DIPS has great expertise in project management, quality control, implementation, and process improvement.

## THE CHALLENGE

Having acquired 70% market share in Norway, DIPS is looking into penetrating the international market. The company's EPJ/ERP software system was based on an old application written in Delphi, which they needed to phase out and replace with a brand-new application written in .Net. DIPS needed a solution for unit testing this new platform.



**"We strongly believe that with Typemock we will now be able to reduce the test period before a release from the usual three weeks to only one. This is a major improvement in our code testing procedures."**

*Erling Paulsen,  
Senior Developer, at DIPS ASA*

## THE SOLUTION

The company's developers learned about Typemock in Scott Hanselman's Computer.Zen blog. Before moving to TDD, DIPS had large amounts of written code that was never designed with testability in mind. Typemock enabled developers to write test against untestable code without significant modifications to the code.

The company began practicing TDD only a few months ago, and is beginning to see the benefits with increased code quality. DIPS has two major releases each year, usually with a three-week test period prior to release. The company is expecting the number of bugs in the beta test phase in their next release to be half of the previous one thanks to unit testing.

## FACTS AND FIGURES

From 40 developers writing unit tests on a regular basis to 60 developers with Typemock  
Increase of approximately 50% in test coverage in only a few months  
From 1,100 tests with CI-builds to 3,200 with Typemock

“When it comes to Typemock, service is the key word. We are most pleased with the response we received whenever we found a problem in Typemock. The first time, it was fixed within four hours of us reporting it, and on a Saturday! This is most impressive. I don’t think that it is possible to do any better.”



*Erling Paulsen, Senior Developer, at DIPS ASA*

## BENEFITS

DIPS’ developers report that they churn out tests at a much faster pace than before because Typemock makes it easy to get rid of the parts of the application that they do not want to test. Typemock enables DIPS developers to write less complex and maintainable unit tests, which directly reflected on the company’s increase in test coverage.

## SUMMARY

DIPS EPJ/ERP software system was based on an old application written in Delphi, which they needed to phase out. The company’s developers learned about Typemock in Scot Hanselman’s blog and selected it for their newly written .Net framework.