



TestComplete



TechnipFMC

Case Study:

TechnipFMC Reduces Regression Testing by 300% Using TestComplete



About TechnipFMC

TechnipFMC is a world leader in project management, engineering and construction for the energy industry. From sub-sea oil and gas developments to complex offshore and onshore infra-structures, the company's 38,000 people constantly offer solutions and innovative technologies to meet the world's energy challenges. TechnipFMC operates industrial assets in 48 countries across all seven continents and a fleet of specialized vessels for pipeline installation and sub-sea construction. Company shares are listed on the NYSE Euronext Paris exchange and traded in the U.S. on the OTCQX marketplace (TKPPY).

Case Study Overview

Business Challenges

- | Eliminate manual testing of large applications
- | Identify application performance issues before deploying into production
- | Ensure applications remain stable continuously
- | Streamline regression testing
- | Simplify server sanity testing

Solution

- | TestComplete accelerates user adoption with an easy-to-use interface
- | Supports wide range of development technologies
- | Offers low licensing cost with a streamlined procurement process
- | Includes 24/7 support from experts who diligently provide resolutions

Measurable Results

- | TestComplete reduces regression testing by as much as 300% (12 days down to 4)
- | Measures performance of common functionalities across different applications
- | Quickly runs server application sanity tests
- | Enables faster deployment of application changes

Business Need

As a company that operates in the oil and gas industry, TechnipFMC's main business involves large-scale engineering, construction and procurement. Most applications the company develops support these three critical functions for which engineers are the primary end users.

Other internally-developed applications provide services across the business, such as human resources, while others are developed for specific departments, such as finance. The majority of the applications are Web applications developed with Microsoft.NET, but the company also custom develops desktop applications.

"We develop multiple applications supporting each of our key disciplines, and the size of those applications has grown so large that we can no longer test them manually," said Muhammad Mazhar Mahmood, a Software Testing Manager for Technip. "We thus needed an automated testing solution to help us make sure all of our applications continuously remain stable—before deployment into the production environment."

In searching for an automated testing solution, TechnipFMC specifically wanted to find an easier way to conduct application regression testing. "Previously, we found regression testing to be painful," Mahmood said. "We often need to test complete applications. This is not possible in a short amount of time, so we preferred to automate the regression testing process. We also needed an easier way to conduct server sanity tests to make sure each application runs properly."

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"SmartBear places a high priority on technical support. In addition to giving us access to resources 24/7, SmartBear always provides experienced, highly-skilled experts who don't just offer quick fixes—they provide complete solutions to any issue we encounter."

- Muhammad Mazhar Mahmood

Software Testing Manager, TechnipFMC

Targeted Solution

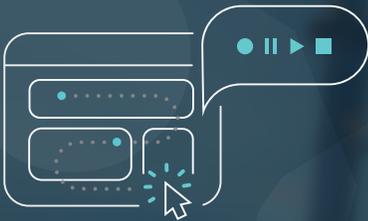
Key attributes TechnipFMC sought in a new application testing solution included ease-of-use so the tool could be quickly adopted along with support for each development technology the company relies on, including Microsoft.NET and SharePoint as well as SilverLight, Java and Oracle. "The cost of the product was also a major consideration as well as 24/7 support," Mahmood added. "We have teams across the world, so we may need technical help at any time of the day."

TechnipFMC evaluated multiple leading solutions but chose SmartBear [TestComplete](#) because it provides all the required testing capabilities at the lowest cost. "SmartBear also provides a streamlined purchasing process that delivers software orders quickly," Mahmood emphasized. "We never run into any delays when purchasing or renewing licenses."

TestComplete gives TechnipFMC an intuitive and automated software testing tool with which developers and testers can create, maintain, and perform automated tests for any desktop, web, or rich client software. Mahmood also appreciates the detailed TestComplete user guide. "Our developers and testers quickly understand how to utilize the basic functions," Mahmood explained. "But the user guide comes in handy when we want to delve into the advanced features. With just a little research within the guide, we can manipulate TestComplete the way we need to."

In addition to TestComplete, TechnipFMC also purchased SmartBear [LoadUI Pro](#) for API load testing and SmartBear [QAComplete](#) to ensure complete test coverage through every stage of the software development process. "With LoadUI Pro, we generate high-volume real-world loads while QAComplete lets us find defects faster during application development," Mahmood said.

Key TestComplete Features for TechnipFMC:



Easily Build Automated GUI Tests



Reuse Functional Tests



Access to Free Training & Support

Benefits & Results

With TestComplete, TechnipFMC can now test common functionalities across different applications and quickly run server application sanity tests. “Regression testing is now much easier,” Mahmood added. “For Agile projects in particular, we can automatically test features that have already been developed instead of working our way through manual testing.”

When TechnipFMC conducts regression tests, TestComplete saves considerable time. For one application that changes frequently, regression tests used to last 12 days. But with TestComplete, TechnipFMC now has automated scripts for most of the functionalities, so the same regression tests now require just four days. “In addition to making the process much easier for our testing team, we can also deploy application changes much faster for the benefit of our end users who interact with our critical applications,” Mahmood said.

In addition to the faster regression testing, TechnipFMC can also quickly run server sanity tests. This proves helpful when implementing priority patches onto production servers after which the entire system must be tested.

“Automating our testing processes is very helpful when we need to perform specific tasks at times when testing resources are limited,” Mahmood said. “We no longer have to ask one of our testers to spend an entire night monitoring test results before going live. TestComplete takes care of this automatically and in a much shorter amount of time.”

Mahmood concluded his comments on SmartBear by saying, “SmartBear solutions include everything in one package so we don’t have to spend extra money for add-ons. And if there is new technology in the market or a technology is upgraded, SmartBear makes sure it’s included in the very next release of its products—without charging us extra money.”

About SmartBear Software

SmartBear is behind the software that empowers developers, testers, and operations engineers at over 20,000 of the world’s most innovative organizations including Adobe, JetBlue, MasterCard, and Microsoft. More than 6 million people use our tools to build, test, and monitor great software, faster. Our high-impact tools are easy to try, easy to buy, and easy to use. These tools are backed by a team of people passionate about helping you create software that transforms our world. Those tools are SmartBear tools. That team is SmartBear. For more information, visit: <http://smartbear.com>, or follow us on [LinkedIn](#), [Twitter](#), or [Facebook](#).