

Services Epargne Entreprise (S2E)

S2E, the leading service platform in administration management of employee savings, reduces its web portals time testing by an average of 10% with the Coverity Test Advisor solution.



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BENJAMIN BOUTIN
S2E QA MANAGER

S2E

Services Epargne Entreprise (S2E) was born in 2006 as a joint-venture between four major players in employee savings: AXA, BNP Paribas, HSBC and Société Générale. It has quickly established itself as the market standard in terms of innovation and quality of service. The platform now processes transactions of more than 3 million employee customers for 50% of CAC40 companies and more than 80,000 SME’s.

The employee savings market faces strong requirements, in terms of:

- Reactivity, with regulatory changes which are difficult to anticipate and trade issues which require implementation, testing and deployment of new versions more and more quickly.
- Quality, inscribed in the DNA of S2E (ISO 9001) in order to ensure a high level of service and satisfy all segments of its customer base.

Benjamin Boutin, S2E QA Manager, specifies: “At the IT level, it’s an ongoing challenge to deliver the expected quality while adapting to the needs of our clients.”

High stakes

In 2013, S2E undertook the redesign of its Web portals, a strategic channel for processing customer transactions. For the testing team at S2E, it was crucial to be able to adapt to very short iterations which deliver incremental improvements. The organization transitioned from a traditional V-cycle process to a hybrid mode, development in agile mode while maintaining a complete validation phase. Given this tight schedule, it was impossible to test everything systematically at each iteration; the testing effort had to be focused on each version’s specific functional scope and regression tests had to be optimized.

Benjamin Boutin explains: “We studied the market and identified Coverity’s Test Advisor solution as the only technology which could meet our needs to better target our tests. However, we still had to put it to the test!”

BUSINESS BENEFITS

- A More Agile Test Process:**
 Thanks to Test Advisor, S2E gained agility in its testing and was able to adopt accelerated version cycles with deployments every month.
- More Effective Tests:**
 With a clear vision of the changes in each release and of their impacts, S2E was able to reduce the number of tests to run.
- Enhanced Confidence in Deliverables:**
 With a combined vision of development and testing for each release, S2E makes the test effort tangible and produces reliable indicators for calmer deployments.

Deployment and integration of the solution

Coverity made its solution available to S2E in order to outline a proof of concept. The ease of implementation was the first pleasant surprise for Benjamin Boutin: “The SaaS/Cloud mode makes for speedy implementation and the solution has no impact on the performance of our test servers. Finally, the quality of the Coverity support teams, well above market standards, allowed us to be operational in a just a few days!”

Thanks to the plug-ins offered by Coverity, the Test Advisor solution naturally integrated with the tools used by S2E: Maven/Jenkins for continuous integration, JUnit for unit testing, HP Quality Center (QC) for manual testing.

A very effective solution with tangible benefits

The first priority for the S2E testing team was to have complete visibility of all changes and updates between each version of the Web platforms, essential in order to ensure compliance and stability. Benjamin Boutin shares a specific example: “Coverity provides an inventory of optimizations and technical improvements.”

The second priority was to know exactly where to focus testing efforts in order to effectively save time by avoiding unnecessary tests. Again, mission accomplished by Coverity, Benjamin Boutin happily points out: “Overall, thanks to Test Advisor’s impact analysis, we save more or less 10% workload on each of our test campaigns.”

Finally, he continues, “With the visibility provided by the solution, no test is spared, but we don’t waste any time testing the same elements several times.”

Conclusion

Coverity’s solution has demonstrated its ability to respond very effectively to the challenges of responsiveness, quality and budgetary constraints with an undeniable ROI. Its use has become standard and will expand to other applications of S2E’s IT infrastructure.