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# YuMi® robot makes 24-hour testing a reality for the ATM Industry

- World-first prototype dual-armed YuMi® software testing is a game-changer for ATM industry
- Testing with YuMi® will make cash machines more reliable and secure
- YuMi® ATM testing will now be rolled out to test labs around the world
- Video available here: [https://youtu.be/Fa\\_VqLf259I](https://youtu.be/Fa_VqLf259I)

It takes around thirty seconds for a person to withdraw money from an Automated Teller Machine (ATM). These cash-dispensing and receiving devices are found “around the corner” in every city of the world and have made banking simple and intuitive.

To make these financial transactions safe and secure, an ATM receives new software versions or patches at least every six months, but before any new ATM software is released it needs to undergo thorough testing to ensure that it complies with strict global and local specifications for reliability, usability and security.

Swiss-based payments software provider Abrantix AG commissioned an ABB YuMi® robot to automate the testing of Diebold Nixdorf's ATMs. The Abrantix Test Environment software instructs the YuMi® robot to test out common ATM operations such as inserting cards, punching in PIN codes and withdrawing and inserting money, just like a human.

The testing is so exhaustive that YuMi® is programmed to deliberately make human errors, such as inserting money bound with a paperclip, to ensure the software can deal with a range of issues.

The prototype dual-armed YuMi®, developed at the Abrantix global headquarters in Switzerland, is a game-changer for ATM software testers. The YuMi® system replaces the traditional manual testing environment, that not only required testers to spend hundreds of hours in front of an ATM, but also ran the risk of human error.

Automation has increased the speed of the software development process. During the day, developers create new ATM software features that are then tested automatically by the YuMi® robot at night. Feedback is checked the following day, which frees up time for testers to perform more meaningful tasks.

“Previously, the test cycles could become bottle necks and even risks in the critical path of a release. With the new YuMi®-based solution, this is much more under control and employees can now focus on improving test cases and procedures or even develop new software features, while YuMi® is testing the ATMs,” said Abrantix CEO Daniel Eckstein.

"At Diebold Nixdorf, we believe this testing automation environment created by the innovation leaders Abrantix and ABB, combined with our own extensive knowledge in innovative ATM software development and testing, has a fantastic potential to massively improve test efficiency and software quality in hundreds of our customers' test labs around the world," said Richard Schlauri, MD of Diebold Nixdorf, Switzerland.

Marc-Andre Zingg, ABB Robotics Business Line Manager in Switzerland, said: "The ATM testing system developed by Abrantix is exactly the sort of precise, collaborative process that our YuMi® robot was designed for. With YuMi®, Abrantix is not only assured that the robot will safely share tasks with their employees, but their skilled software developers now have more time to devote to other more valuable tasks, while YuMi® works away in the background on repetitive, but highly important tests, 24 hours a day."

#### **Notes for editors:**

**Abrantix Ltd.** are specialists in Payment Software Engineering. The company was founded in 2001 in Zürich, Switzerland as a private and independent company. Abrantix stands out with its many years of proven software project experience and its in-depth knowledge of the payments industry, both on the business and technology side. They are the ideal partners for the implementation of your software project in electronic payments. The headquarters of Abrantix lies in the heart of Zürich, Switzerland. We have international representations in Newcastle, Australia and Koper, Slovenia. As of today, we have implemented payment projects in over 30 countries and thus take care of efficient, safe and high-quality electronic payment systems around the globe. Visit Abrantix at [www.abrantix.com](http://www.abrantix.com), or find out more about our robotics and testing solutions at [blog.abrantix.com/robot](http://blog.abrantix.com/robot).

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