

Project Note

Test Environment for the Bancomat 5.0 Software

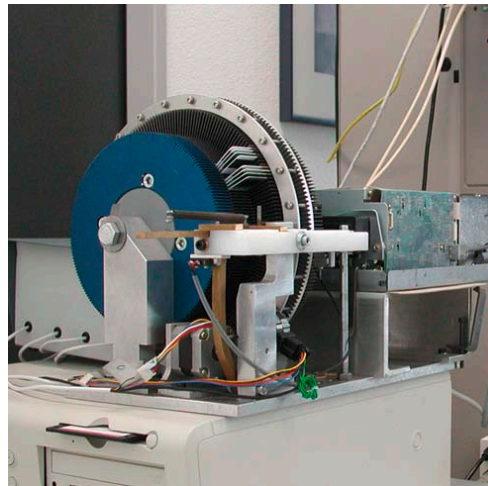
Due to the robot for a cash terminal, tests can be conducted automatically. The robot inserts customer cards, enters PIN-codes and extracts cash. Therefore the staff of our customer is relieved of monotonous work.

Task

The Swiss company Diebold Selbstbedienungssysteme (Schweiz) GmbH was in charge of creating the latest generation of the Bancomat 5.0 (BM5.0) software (software for ATMs). To meet the tough quality standards set by Telekurs Payserv and the Swiss Association of Raiffeisen Banks, Diebold had its own test team to develop a complete testing environment tailored to customer needs.

Implementation

- Computer-assisted testing of ATMs with a testing robot and test scripts.
- Development of a testing robot capable of performing entire transactions independently, from card insertion and PIN code entry to the extraction of the cash.
- Regression tests that operate the ATMs continuously with all conceivable test versions.
- Development of a database for test results that acts as a central coordination point to manage all errors with a given status, their priority and the staff member in charge of them.
- Regular reviews of the design and source code (C++) that allow misunderstandings and errors to be detected.



Customer Benefits

- Thanks to the newly created Product Acceptance Plan, a clear procedure is set down for conducting the acceptance tests.
- The testing robot relieves staff of having to perform the boring and monotonous test sequences themselves.
- The regression tests help to detect errors that only occur after a certain number of transactions.
- The planning and carrying out of the tests helped to detect and correct early on what could otherwise become unpleasant surprises later.

Zühlke Engineering AG
Wiesenstrasse 10a
8952 Schlieren (Zurich)
Switzerland

Phone +41 44 733 6611
Fax +41 44 733 6612
info@zuehlke.com
www.zuehlke.com

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