Test Automation

Information Sheet

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In today's rapidly evolving payments landscape, the ability to complete EMV testing efficiently and without disruption is more critical than ever.

By combining a fully qualified and trusted EMV test tool from ICC Solutions with an automated testing solution, organisations can streamline their testing processes, reduce time, cost, and resource requirements while accelerating delivery and maintaining compliance.

As part of an exciting enhancement to ICC Solutions' fully trusted TMat testing platform, customers can now automate EMV test execution using external hardware, such as robotic test systems, or integrate directly with their own automation frameworks through the Auto API add-on.

Within the TMat tool, users can create customised test packages containing all required contact and contactless brand test cases.

The Auto API then exposes these test suites through a comprehensive API interface, enabling external automation software to control test execution, retrieve transaction data, and automatically submit test results.

The Auto API solution also provides control of the probes used during point-of-sale (POS) testing, delivering a seamless, end-to-end automated testing environment that reduces manual effort and improves testing efficiency.

Customers looking to further enhance their testing capabilities can purchase the Auto API add-on from ICC Solutions, together with the required probe hardware.

The Auto API provides access to the test projects created within the ICCSim platform, exposes the data required to execute individual test cases, and controls the probes used during terminal testing.

This information can then be utilised by the customer's automation software and robotic test system to interrogate the available project list, select and execute test cases, and perform the required interactions at the terminal. Once completed, test results are automatically returned to the Auto API and stored within the ICCSim tool, where they can be reviewed and analysed by the tester.

To support automated execution of contact, contactless, and magstripe test cases, three dedicated probes are required: one for card insertion (contact), one for card presentation (contactless), and one for card swiping (magstripe). Depending on the robotic platform and middleware solution deployed, a camera can also be integrated to automatically respond to terminal prompts, such as PIN entry requests, further increasing the level of test automation.