Integrating PaytestProbe with PaytestMux and the PaytestLab Card Library

Boosting Test Precision and Flexibility in Real-World Payment Scenarios

As the demand for diverse and seamless payment experiences continues to rise, so does the complexity of testing those interactions. At the core of building robust, reliable payment software is the ability to simulate real-world conditions across all payment interfaces - and do it quickly, efficiently, and at scale.

This is where the integration of PaytestProbe with PaytestMux and the PaytestLab Card Library transforms the game.

PaytestProbe: Precision Interface Simulation

PaytestProbe plays a critical role in the PaytestLab automation ecosystem. It serves as the physical bridge between payment terminals and EMV Level 3 (L3) test tools, allowing precise simulation of real-world transactions through:

- EMV chip – supporting chip insertions with full protocol handling
- Magnetic stripe – emulating traditional swipe-based transactions
- Contactless (NFC) – simulating tap interactions

This versatility ensures that organizations can validate terminal behavior across all commonly used interfaces. PaytestProbe supports online and offline testing scenarios as well as fallback, making it suitable for a wide range of use cases—from functional verification to brand certification.

Its flexibility allows it to be deployed either as a standalone test device for manual validation or as part of a fully automated test setup when integrated with PaytestHub, PaytestRobot, and PaytestMux. In either mode, it enhances test accuracy, reduces manual effort, and enables consistent, repeatable results - vital for teams aiming to accelerate development and ensure payment system reliability.

PaytestMux: Smart Routing Across Terminals

Integrating PaytestProbe with PaytestMux adds a layer of intelligent routing. PaytestMux allows testers to manage multiple test cards from a single interface. Instead of manually switching between cards, teams can seamlessly switch between them through choosing a different slot in their test case within PaytestHub.

With the latest firmware upgrade, the PaytestMux can now be added to your local network. This allows you to connect more than two probes to one multiplexor and therefore reduces the hardware footprint and allows you to share cards across multiple terminals. This is especially useful in scenarios that involve concurrent testing of multiple terminals or when the same card needs to be shared in different test sets.

The combination of PaytestProbe and PaytestMux gives testing teams the flexibility to cover more ground in less time - without compromising accuracy.

PaytestLab Card Library: Organized, Taggable, and Test-Ready

One of the standout features in this integrated setup is the PaytestHub Card Library - a digital card management system that simplifies the testing process. The card library is a real time reflection of your PaytestMux and the cards which are stored in each slot. Through the multiplexor, we read the card data and provide this information in an overview within PaytestHub.

With the Card Library, you can:

- See which card is stored in which slot - tag cards based on test criteria (e.g., brand, country, card type, risk level)
- Use tags within your test case instead of slot numbers

The card library streamlines the test case creation process, making it easier to write and manage test cases. With this invaluable addon to the PaytestMux, we stay at the forefront of innovation and bring additional value to our customers.

Why This Integration Matters

Integrating PaytestProbe, PaytestMux and PaytestHub card library creates a unified, intelligent ecosystem that modernizes payment software testing. With this combination, you are able to accurately execute payment transactions across multiple terminals with a simplified approach on how to write your test cases.

The new network functionality of PaytestMux brings benefits to your testing process which are crucial for a streamlined automation process. Now that all card images can be reviewed within PaytestHub in the card library, there's no need to go and check which card is stored in which slot. Testers are enabled to write their test cases in a simplified way by utilizing labels and this also reduces the failure rate if a card gets switched into another slot.

PaytestLab's goal is it always to reduce the manual workload involved in testing by simplifying the process. This not only frees up time for other tasks but also reduces the error rate and therefore improves the accuracy and quality of your test results. For organizations dealing with frequent software updates, terminal deployments, or compliance checks, this solution offers unmatched speed, scalability, and flexibility, backed by PaytestLab's expertise in automated payment software testing.

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