



Test Tools

UL Integrated Test Automation Module

Who is it for?

UL Integrated Test Automation Module is the solution for Terminal Vendors, Acquirers, and Acquirer Processors that want to use their UL Brand Test Tool to automatically run a full brand certification test on a payment terminal without manual involvement of a test operator.

Why do you need it?

UL Integrated Test Automation Module is an extension to the **UL Brand Test Tool** (containing qualified test cases for Visa, MasterCard, American Express, Discover, Diners, UnionPay, JCB). It allows to create a fully automated terminal test environment combining the power of the Brand Test Tool with your proprietary test automation environment.

UL Brand Test Tool's Integrated Test Automation module is linked to your test automation environment using a TCP/IP connection. If your test automation environment is capable of simulating 'physical' behavior (such as key entry and magnetic stripe card swipe), you are able to run a full brand certification test without the involvement of a test operator.

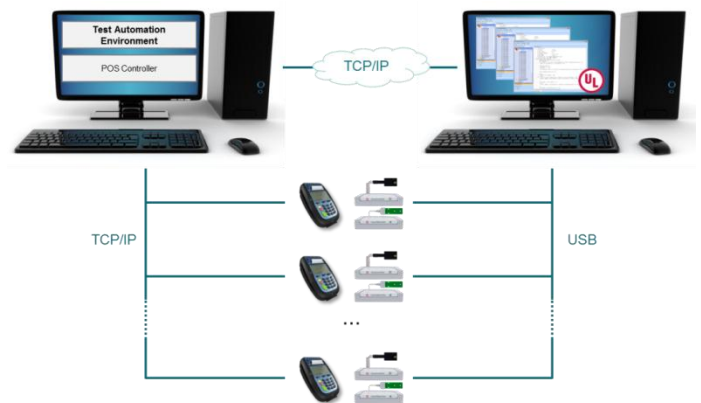
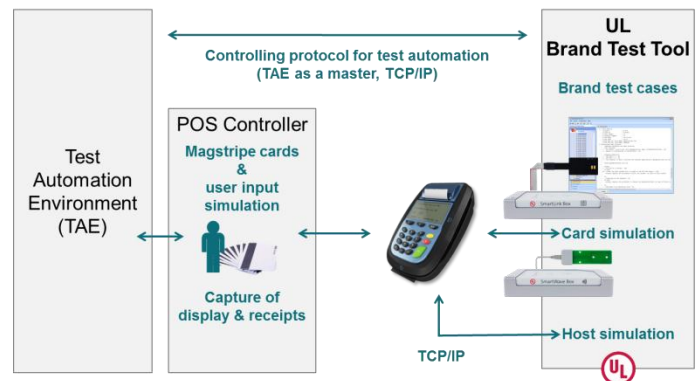
The test cases implemented in UL Brand Test Tool are run by triggering card simulation using the UL SmartLink Box and/or UL SmartWave Box. The tool evaluates test case results and reports these results back to your Test Automation Environment.

Your test environment is instructed on which test procedure to trigger, on which type of magstripe card to simulate (if applicable for the test case), and on any POS user interface checks that must be done (e.g. what text was displayed, whether the transaction was approved, whether the receipt has been printed). In this way, you completely automate your test execution.

What is inside?

UL Integrated Test Automation Module works in combination with one or more existing licenses of UL Brand Test Tool and the UL Host Simulation & Utilities Module.

The controlling protocol for test automation is fully described in a comprehensive document and provided to you. This allows you to code and implement your test procedures in your test automation environment.



Key benefits

- Fully integrated and automated terminal test environment
- No manual involvement of a test operator
- Combine the power of the UL Brand Test Tool with your proprietary test automation environment
- Automatically run mandated test cases qualified by Visa, MasterCard, American Express, Discover, Diners, UnionPay, JCB, Interac
- Kick-off your test automation process with maximum efficiency
- Scalable to multiple simultaneous terminal test runs
- Speed up your development and validation process



Integrated Test Automation Module

Specifications

Deployment options

- Multiple instances of UL Brand Test Tool can run on one computer, allowing multiple simultaneous runs
- Your test automation environment can run on the same or another computer
- A network license dongle and remote desktop are supported
- To retain qualification by payment brands, the UL Brand Test Tool test cases are kept as much intact as possible
- Verdicts for brand test cases implemented are made by UL Brand Test Tool. For other test cases, UL Brand Test Tool can be used for card simulation only
- For each acquiring interface, the UL Host Simulator and Utilities Module within the UL Brand Test Tool is used. It is still possible to run the test cases with or without Host Simulation checks

Joint development

To streamline the construction of the automated test environment, joint development sessions with UL may be beneficial. This allows to kick-off your test automation process with maximum efficiency. Any specific requirements for customization will be discussed with UL beforehand so UL is able to provide for tailored test automation support.

Required Software

- UL Brand Test Tool
- UL Host Simulation & Utilities Module

Technical Support

To ensure that you can effectively use the tool and gain the maximum benefits, UL offers for tools a Service Contract that gives you access to our Technical Support services. Our experienced technical team is available to provide support, advice and guidance.

The following services are covered

- New releases
- Helpdesk support
- Bug fixes
- Instant hardware replacement

You can access these services through the service portal at www.ul-ts.com.

Controlling Protocol

- The controlling protocol between your test automation environment and UL Brand Test Tool's Integrated Test Automation Module is based on JSON and supports the following features:
 - UL Brand Test Tool supports a request to start a specific test case (with or without Host Simulator checks)
 - UL Brand Test Tool supplies a list of checks that must be made by your test automation environment
 - At end of a transaction, your test automation environment sends a list of checks and results to UL Brand Test Tool.
 - UL Brand Test Tool responds with the overall validation result for the test case (taking account of any customer specific checks) and location of log file for that specific test case.

The **controlling protocol for test automation** is fully described in a comprehensive document and provided to you. This allows you to code and implement your test procedures in the test automation environment.

The **POS Controller** (not included) is the part of your test automation environment responsible for simulation of user input (key pressed, PIN entered, magstripe swiped, etc.) and for automated checks of the display and printer output.

Required Hardware

- Contact testing: UL SmartLink Box
- Contactless testing: UL SmartWave Box