UL MOBILE HANDSET TEST PLATFORM

Who is it for?

UL Mobile Handset Test Platform is the most advanced test tool for any mobile handset manufacturer, developer or tester that wants to have a stable environment for handset testing over the SIM card interface in which repeatable tests can be performed.
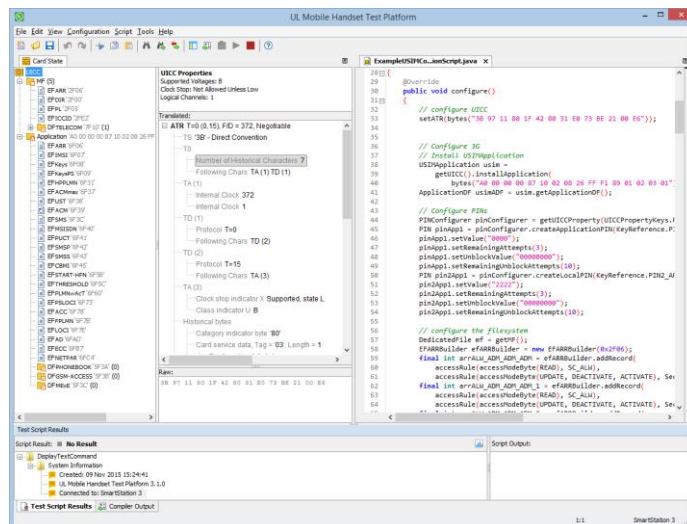
Why do you need it?

With UL Mobile Handset Test Platform, you can test your handset over the SIM card interface by simulating a SIM/RUIM card or multi-application UICC. The simulation's behavior can be controlled and predicted. Both correct and faulty behavior of SIMs and UICCs can be simulated.

What is inside?

UL Mobile Handset Test Platform combines a fully functional UICC or SIM simulator with a Java development environment that lets you build test scripts (card profile, Toolkit, ISO 7816-2, 3 and 4) in minutes. Using UL Mobile Handset Test Platform to simulate a UICC and running tests of various sizes and complexity allows handset behavior to be verified.

UL Mobile Handset Test Platform can be configured to simulate USIM, ISIM, SIM, CSIM and RUIM applications. It can be used for testing handsets in a GSM, 3G (UMTS or cdma2000) or LTE network environment when combined with a suitable network simulator or live network.

Key benefits

- Simulate both correct and faulty SIMs or UICCs to test the behavior of a handset
- Build your own test scripts (card profile, Toolkit, ISO 7816-2, 3, and 4) in just a few minutes
- Complete handset testing using powerful and flexible JAVA APIs
- Detect interoperability issues at an early stage
- Immediate visual feedback on tests
- Reduce time-to-market and save costs
- 5G filesystem and command support

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Specifications

Industry specifications supported

GSM (SIM) module
- TS 51.011, "Specification of the Subscriber Identity Module – Mobile Equipment (SIM-ME) Interface"
- TS 51.014, "Specification of the SIM Application Toolkit for the Subscriber Identity Module – Mobile Equipment (SIM-ME)"

3G (USIM) module
- 3GPP TS 31.102, "Characteristics of the Universal Subscriber Identity Module (USIM) Application"
- 3GPP TS 31.111, "Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)"
- ETSI TS 102.221, "Smart cards; UICC-Terminal Interface; Physical and Logical Characteristics"

3G (CSIM) module
- 3GPP2 C.S0065-B, "CDMA2000 Application on UICC for Spread Spectrum Systems"
- 3GPP2 C.S0035-A, "CDMA Card Application Toolkit (CCAT)"
- ETSI TS 102.221, "Smart cards; UICC-Terminal Interface; Physical and Logical Characteristics"

3G CDMA2000 (RUIM) module
- 3GPP2 C.S0065-B, "CDMA2000 Application on UICC for Spread Spectrum Systems"
- 3GPP2 C.S0035-A, "CDMA Card Application Toolkit (CCAT)"

Remote option
- Option to use the card simulation without the user interface and integrate it into an automated test environment using a Java API
- Remote API includes functionality such as loading configuration and test scripts, starting and stopping test scripts, interacting with the running test script and retrieving test results.

Hardware
- UL SmartConnect
- UL Contact and Contactless Card Reader

Features
- Low Level Testing
- Answer to Reset
- T=0 protocol support
- Full support for PPS
- 5G filesystem and command support

File system
- Fully configurable using Java configuration scripts
- Scan a real card to create a simulation image

Test scripts
- Test scripts written in Java
- High level APIs with methods based upon application level and toolkit commands
- Java classes for all Toolkit commands and data objects
- Output from test scripts is displayed as test certificates that can be saved and shared

Automation
- Control UL Mobile Handset Test Platform from your test environment
- Load configuration and test scripts
- Send events between your test script and controlling software

Live network automation
- Optionally forward commands to a real UICC to authenticate handset onto a live network
- Provide custom handling of authentication commands
- Includes support for ISIM, USIM and CSIM

UL Mobile Log Viewer

UL Mobile Log Viewer is used to view exported test certificates. Using UL Mobile Log Viewer, people who do not have UL Mobile Card Test Platform can still review test certificates.

UL Mobile Log Viewer is free to use and can be downloaded from our website.