

Specifications

Supported features

- User-friendly GUI to write, compile and run scripts
- Real-time view of file system (select, read and update functions)
- File system or I/O stream (translated or untranslated)
- Easy-to-read results that you can save and share
- Convenient reports and details of the last run test
- To help you develop your own test scripts and test suites, UL Mobile Card Test Platform supports these APIs:
 - 3G API (includes 3G-5G functionality)
 - GSM API
 - SWP API (includes SWP and HCI functionality)
 - GlobalPlatform API

APIs

- Comprehensive APIs written in Java™
- Suitable for those with limited development experience
- Incorporates a simple integrated development environment (IDE), or you can use your own IDE of choice

JAVA scripting API

The scripting API includes methods for:

- All 3GPP TS 31.102 3GPP 31.111 and ETSI 102 221 commands
- All 3GPP TS 51.011, 3GPP TS 51.014 and ETSI 102 221 commands
- GlobalPlatform Card Specification v2.3.1 including support for:
 - SCP02, SCP03, SCP80 and SCP81
 - AES and ECC authorization tokens
 - RSA variant 2 authorization tokens
 - DAP signatures
- Analyzing responses
- Verifying status words
- Recording test results
- Supports SWP/HCI

Hardware

UL Mobile Card Test Platform runs in combination with different types of high-end hardware depending on your testing requirements — PC/SC reader, National Instruments MP65 or TC3.

Industry specifications supported

ETSI TS

- 102 221, Smart Cards; UICC-Terminal Interface; Physical and Logical Characteristics
- 102 223, Smart Cards; Card Application Toolkit (CAT)

ETSI TS for SWP

- ETSI TS 102 613, Smart Cards; UICC - Contactless Front-end (CLF) Interface; Part 1: Physical and data link layer characteristics
- ETSI TS 102 622, Smart Cards; UICC - Contactless Front-end (CLF) Interface; Host Controller Interface (HCI)

3GPP TS for GSM

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

3GPP TS for 3G

- 31.101, UICC-Terminal Interface; Physical and Logical Characteristics
- 31.102, Characteristics of the Universal Subscriber Identity Module (USIM) Application

GlobalPlatform

- GlobalPlatform Card Specification v2.3.1
- GlobalPlatform Card Specification v2.2 – Amendment B, Remote Application Management over HTTP
- GlobalPlatform Card Specification v2.3.1 – Amendment C, Contactless Services
- GlobalPlatform Card Specification v2.2 – Amendment D, Secure Channel Protocol 03
- GlobalPlatform Card Specification v2.3.1 – Amendment E, Security Upgrade for Card Content Management



Additional products (stand-alone or integrated with UL Mobile Card Test Platform)

UL Mobile 31.122 Test Suite (3G)

Verifies USIM compliance with the 3GPP 31.122 Universal Subscriber Identity Module (USIM) Conformance Test Specification test specification

This test suite covers:

- Logical and timing level
- Transmission protocols
- Application and file structure
- Security features
- Commands and responses
- File content

UL Mobile 31.048 Test Suite (3G)

Contains test cases defined in 3GPP TS 31.048, sections 5.1-5.3 – Security and 5.5 – Remote File Management for USIM

This test suite covers:

- Functional Security
- Remote File Management (RFM) and Remote Applet Management (RAM) for USIM

UL Mobile 31.213 Test Suite (3G)

Contains the test cases defined in 3GPP TS 31.213, Test specification for (U)SIM; Application Programming Interface (API) for Java Card™ and ETSI TS 102 268, Test Specification for UICC Application Programming Interface (API) for Java Card

This test suite covers:

- uicc.usim.access package
- uicc.usim.toolkit package
- (U)SAT Framework
- uicc.access package
- uicc.toolkit package
- uicc.access.fileadministration
- uicc.system
- CAT runtime environment

UL Mobile 31.048 Test Suite (GSM)

Contains test cases defined in 3GPP TS 31.048, sections 5.1-5.3 - Security and 5.4 - Remote File Management for SIM

This test suite covers:

- Functional Security
- Remote File Management (RFM) and Remote Applet Management (RAM) for SIM

UL Mobile 51.013 Test Suite (GSM)

Contains test cases defined in ETSI Test Specification 51.013, Test Specification for Subscriber Identity Module (SIM) Application Programming Interface (API) for Java Card

This test suite covers:

- sim.access package
- sim.toolkit package
- SIM Toolkit framework

UL Mobile 51.017 Test Suite (GSM)

Contains test cases defined in 3GPP 51.017, Subscriber Identity Module (SIM) conformance test specification

This test suite covers:

- Logical and timing level
- Transmission protocols
- Application and file structure
- Security features
- Commands and responses
- File content

UL Mobile ETSI 103 481

Contains the test cases defined in ETSI Test Specification 103 481 for Remote APDU structures used by UICC based applications

The test suite covers:

- 6.1 Overview of remote management
- 6.2 Remote APDU format
- 6.3 Security parameters assigned to applications
- 6.4 Remote File Management (RFM)
- 6.5 Remote Application Management (RAM)
- 6.6 Additional command for push, for BIP, but not CAT_TP
- 6.7 Confidential application management

UL Remote Android Reader

The UL Remote Android Reader allows remote card content testing of physically inaccessible SIMs, UICCs, embedded Secure Elements (eSE) and eUICCs. This test target option sends commands from the UL Card Test Platform running on the test computer to the UL Remote Android Reader installed on an Android device. It runs on Android v4.4 (KitKat) and above.

UL Mobile Log Viewer

The UL Mobile Log Viewer allows you to view exported test results from the UL Mobile Card Test Platform. Using UL Mobile Log Viewer, anyone who does not have the UL Mobile Card Test Platform can still review test results.

For more information, visit UL.com/mctp.



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