



UL GSMA NFC HANDSET TEST SUITES

Who is it for?

UL GSMA NFC Handset Test Suites are the ideal network independent solutions for handset manufacturers and conformance test laboratories that want to verify the correct implementation of NFC UICC-based functionality in mobile devices, based on technical core requirements (TS.26 NFC API and TS.27 NFC Test book) defined by GSMA.

Why do you need it?

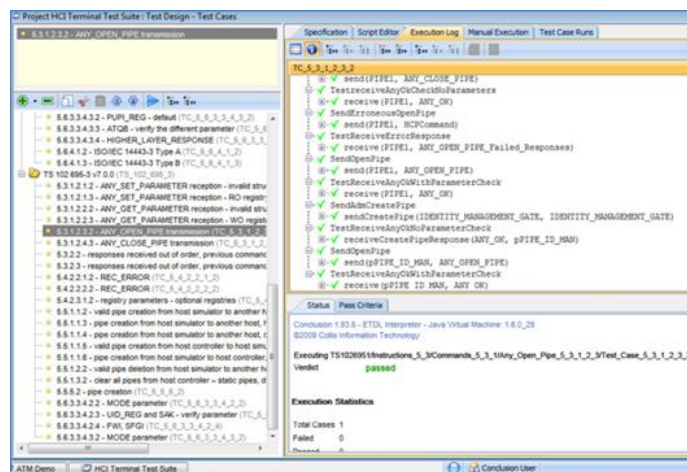
GCF and PTCRB have added the GSMA NFC test requirements into their respective Certification Programs. Therefore, and among other mandatory requirements, mobile manufacturers must pass these GSMA test cases using officially accredited test laboratories under their certification schemes. UL GSMA NFC Handset Test Suites will help you in pre-certification and ultimately lead to quicker certification by test laboratories.

What is inside?

UL offers the following Test Suites:

- UL SWP Terminal Test Suite
- UL HCI Terminal Test Suite
- UL GSMA NFC NI Handset Test Suite

The solution, identified in GCF and PTCRB as TP-120, includes the required NFC and UICC simulators, using Micropross MP500 TCL3 and SC2 boxes, respectively. Alternatively real UICCs and NFC tags and readers can be used.



Key benefits

- Assesses compliance with the latest GCF WI-176, 190 & 197, and PTCRB RFT 123 conformance test cases
- Covers both development and conformance testing purposes
- Fast results thanks to a separated test setup, operating network independent and network dependent tests in parallel
- Cost effective solution based on easy to install software upgrades for existing customers
- Real 24/7 test automation for optimized usage of your test capabilities
- Other available GCF/PTCRB validated test suites can coexist in the same hardware

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Specifications

UL GSMA NFC Network Independent Handset Test Suites

- Includes the following compatible test suites:
 - UL SWP Terminal Test Suite
 - UL HCI Terminal Test Suite
 - UL GSMA NFC NI Handset Test Suite
- NFC emulator based on ISO 14443, NFC Forum and EMVCo standards
- Simulates NFC devices in Reader/Writer mode and card/tag emulator mode
- UICC simulator based on ISO 7816, ETSI 102 221, Single Wire Protocol (SWP) and Host Control Interface (HCI) standards
- Supports full 3G/GSM functionality which enables the handset to boot up properly

UL SWP/HCI Terminal Test Suites

For mobile handset (i.e. terminal) testing, UL offers the following test suites:

SWP Terminal Test Suite, based on ETSI TS 102 694-1

- Test cases validated against GCF WI-133
- Test cases validated against GCF WI-190

HCI Terminal Test Suite, based on ETSI TS 102 695-1 and TS 102 695-3

- Test cases validated against GCF WI-133
- Test cases validated against GCF WI-190

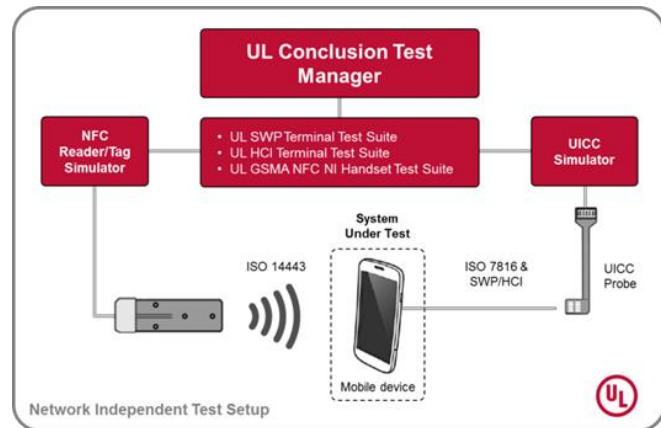
The test suites include test cases validated at GCF and PTCRB and may be used for certification of SWP enabled mobile handsets.

Hardware

The solution, identified in GCF and PTCRB as TP-120, includes the required NFC and UICC simulators, using Micropross MP500 TCL3 and SC2 boxes, respectively. Alternatively real UICCs and NFC tags and readers can be used.

UL Conclusion Test Manager

The UL Compliance Test Suites run on UL Conclusion Test Manager. UL Conclusion Test Manager is a user-friendly Test Management Application. UL Conclusion Test Manager consists of a test engine that has the ability to create and send messages in many variations via (several) interfaces to the system under test, and a cutting-edge test management system to manage the entire test process. It provides flexible ways in configuring the test execution and reporting results.



UL GSMA NFC NI Handset Test Suite

As the specifications and work items evolve, the UL GSMA NFC NI Handset Test Suite is split into different test packages. These test packages will be updated or new test packages will be added. The currently available packages are:

UL GSMA NFC NI Handset Test Suite Package 1

- Test cases related to the SIMalliance Open Mobile API (OMAPI), NFC Features and UI Application triggering, and Multiple Card Emulation Environment
- Validated test cases from GCF WI-176, 197, 214, and 228

UL GSMA NFC NI Handset Test Suite Package 2

- Test cases related to GlobalPlatform Secure Element Access Control (SEAC)
- Validated test cases from GCF WI-176, 197, and 214

UL GSMA NFC NI Handset Test Suite Package 3

- Test cases related to Android
- Validated priority 2 test cases from GCF WI-197, WI-214

UL GSMA NFC NI Handset Test Suite Package 4

- Validated test cases from GCF WI-248 and 249

UL GSMA NFC NI Handset Test Suite Package 5

- Validated test cases from GCF WI-265



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