



UL SGP.23 DEVICE TEST SUITE

Who is it for?

UL SGP.23 Device Test Suite tests the functionality of the Consumer RSP Device and LPAad (Local Profile Assistant device) defined in GSMA's RSP Architecture SGP.21 and RSP Technical Specification SGP.22. This tool is aimed at companies in the Consumer RSP industry such as mobile network operators (MNOs), device vendors who want to test the device and LPAad.

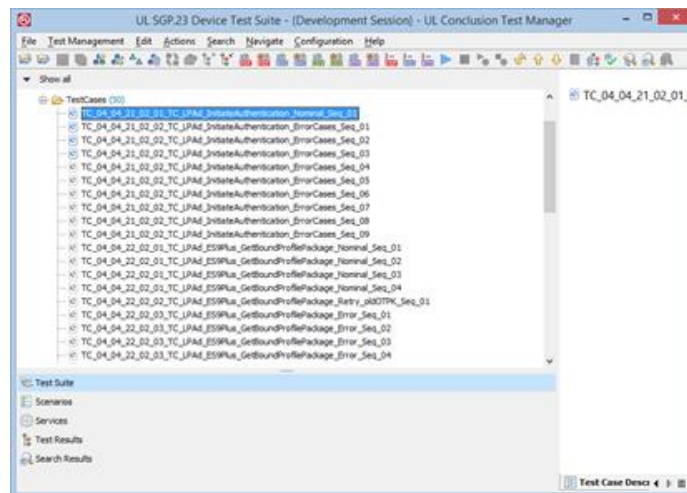
Why do you need it?

UL SGP.23 Device Test Suite enables you to validate that the device and LPAad are compliant to the GSMA's SGP.23 'Remote SIM Provisioning Test Specification' version 1.1. Full validation of your implementation can be performed without the need to interface with other entities in the Consumer RSP architecture.

What is inside?

UL SGP.23 Device Test Suite consists of several simulation modules that work together to test the device and LPAad.

- **Full Simulation of GSMA Subscription model procedures** performed by all entities in the Consumer RSP architecture.
- **Test Individual GSMA ES interfaces** with support for testing all functions on the ESu, ES9+, ES10a, ES10b, ES10c and ES11 interfaces.
- **Full coverage of SGP.23 Interface Compliance test cases** for device and LPAad nominal and error test sequences.



Key benefits

- Simulates core Consumer RSP architecture elements
- Full coverage of SGP.23 Section 4 Interface Compliance test cases including all device and LPAad nominal and error test sequences
- Test individual GSMA ES interfaces
- Ensure that the device and LPAad comply with GSMA's SGP.21 architecture, SGP.22 implementation and SGP.23 test specifications
- Automated report generation
- Reduce your time to market

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Specifications

Supports

- Automated and manual testing
- Synchronous and asynchronous message flows
- Complete device and LPA d testing
- Communication support for HTTP TLS v1.2, Protocol for Profile Protection (including GSMA's Common Mutual Authentication procedure) and SCP03t
- Comprehensive reporting
- WiFi Connectivity Testing

Tested GSMA ES Interfaces

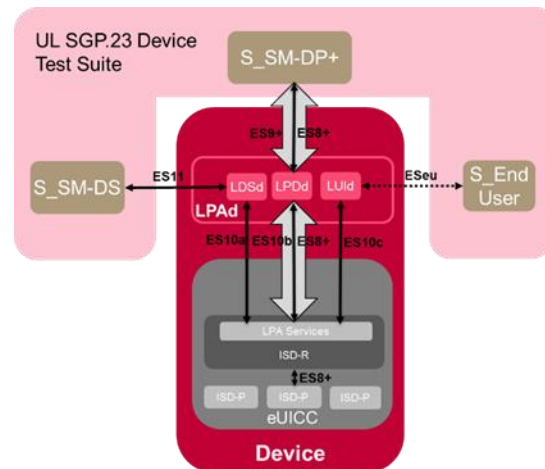
- **ES9+**: (SM-DP+ to LPDd) is used by the SM-DP+ and the LPA d to secure transport for the delivery of the Bound Profile Package from the SM-DP+ to the eUICC via HTTP TLS v1.2 and the GSMA's Protocol for Profile Protection.
- **ES10a**: (LDSd to eUICC LPA Services) allows the LDS component of the LPA d in the Device to request the eUICC Authorisation to generate a Discovery Request via the LPA Services in the ISD-R.
- **ES10b**: (LPDd to eUICC LPA Services) allows the LPD component of the LPA d in the Device to transfer a Bound Profile Package to the ISD-P via the LPA Services where ES8+ SCP03t secured profiles are tunneled within ES10b.
- **ES10c**: (LUI d to eUICC LPA Services) allows the LUI component of the LPA d in the Device to perform Local Profile Management by the End User via the LPA Services in the ISD-R.
- **ES11**: (LDSd to SM-DS) allows the LPA d's LDSd component to retrieve Event Records for its eUICC
- **ESeu**: (End-User to LPA d) is used by End User to use the LUI d manage their eUICC profiles.

Validations

- GSMA SGP.21 architecture specification
- GSMA SGP.22 implementation specification
- GSMA SGP.23 test specification

Covers

- Device Power On and Profile Discovery
- LPA d TLS testing
- Local Profile Management procedure testing
- Interface compliancy testing for Off-card Interfaces
- Full Profile Installation Process
- Notification types and behaviours
- SM-DS retrieval and deletion
- Nominal and error test sequences for functional device and LPA d testing



UL Conclusion Test Manager

UL SGP.23 Device Test Suite runs on Conclusion Test Manager (CTM). CTM is a user friendly Test Management Application which consists of a test engine that has the ability to create and send messages in many different variations via (several) interfaces to the system under test, and a cutting edge test management system to manage the entire test process. It also provides flexible configuration of the test execution and reporting results.



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