



## UL GSMA CONSUMER RSP SGP.23 SUBSCRIPTION MANAGER TEST SUITES

### Who is it for?

UL GSMA Consumer RSP SGP.23 Subscription Manager Test Suites are aimed at companies in the Consumer RSP industry, such as mobile network operators (MNOs), subscription manager vendors or eUICC manufacturers, who want to test their SM-DP+ or SM-DS.

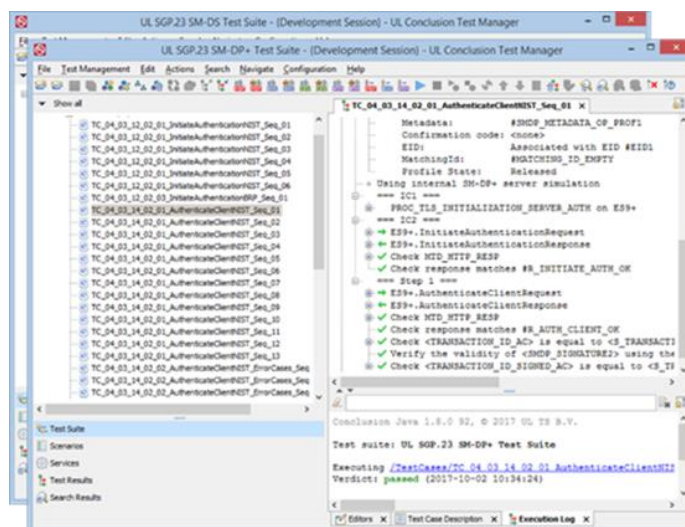
### Why do you need it?

The UL GSMA Consumer RSP SGP.23 Subscription Manager Test Suites enable you to validate that the SM-DP+ or SM-DS is compliant to 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 GSMA Consumer RSP SGP.23 Subscription Manager Test Suites comprises of two individual test suites, the UL SGP.23 SM-DP+ Test Suite and the UL SGP.23 SM-DS Test Suite. Both consist of several simulation modules used to test the SM-DP+ or SM-DS under test.

- **Full Simulation of GSMA Subscription model procedures** performed by all entities in the Consumer RSP ecosystem
- **Test Individual GSMA ES interfaces** with support for testing all functions on the ES8+, ES9+, ES11, ES12 and ES15 interfaces



### Key benefits

- Simulates core Consumer RSP architecture elements
- Full coverage of SGP.23 Section 4 Interface Compliance and Section 5.3 Platform Behaviour test cases for SM-DP+ or SM-DS nominal and error test sequences (excl. ES2+)
- Test individual GSMA ES interfaces
- Ensure SM-DP+ and SM-DS comply with GSMA's SGP.21 architecture, SGP.22 implementation and SGP.23 test specifications
- Automated report generation
- Reduce your time to market

# UL GSMA CONSUMER RSP SGP.23 SUBSCRIPTION MANAGER TEST SUITES

## Specifications

### Test Suites

- UL SGP.23 SM-DP+ Test Suite
- UL SGP.23 SM-DS Test Suite

### Supports

- Automated and manual testing
- Synchronous and asynchronous message flows
- Complete SM-DP+ & SM-DS interface testing
- Communication Support for HTTP TLS v1.2, Protocol for Profile Protection (including GSMA's Common Mutual Authentication procedure) and Secure Channel SCP03t
- Comprehensive reporting

### GSMA ES Interfaces

- ES2+: (Operator to SM-DP+) is currently out of scope in SGP.23
- ES8+: (SM-DP+ to eUICC) is used by the SM-DP+ to securely load profiles onto the eUICC via SCP03t
- ES9+: (SM-DP+ to LPDd) is used by the SM-DP+ and the LPAd 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
- ES11: (LDSd to SM-DS) allows the LPAd's LDSd component to retrieve Event Records for its eUICC
- ES12: (SM-DP+ to SM-DS) allows any SM-DP+ to issue or remove Event Registrations on the SM-DS
- ES15: (SM-DS to SM-DS) allows event registrations and event deletions to be cascaded from the Alternative SM-DS to Root SM-DS

### Configurable Simulators

Each simulator can run in isolation or they can be linked together depending on testing requirements for the unit under test.

## UL Conclusion Test Manager

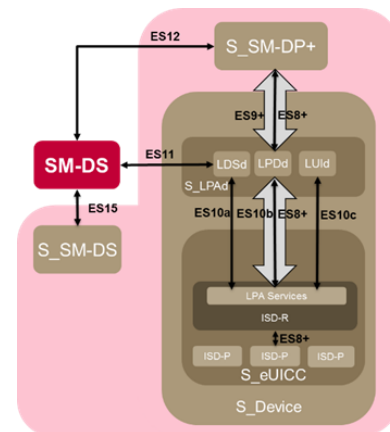
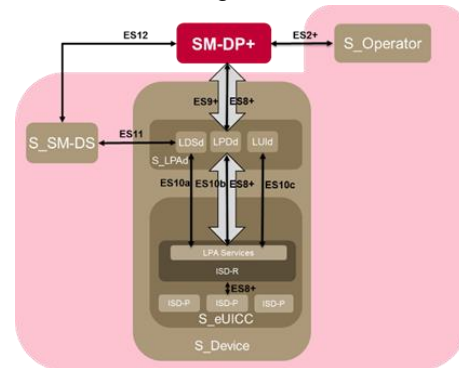
UL GSMA Consumer RSP SGP.23 Subscription Manager Test Suites run on UL Conclusion Test Manager (CTM). CTM is a user-friendly test management application consisting of a test engine with the ability to create and send messages in many variations via (several) interfaces to the system under test. A cutting-edge test management system to manage the test process providing flexibility in configuring the test execution and reporting results.

### Validations

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

### Covers

- Interface compliancy testing for Off-card Interfaces
- Profile Download and Installation
- Common Mutual Authentication
- Notification types and behaviors
- SM-DS registration, retrieval and deletion
- Nominal and error test sequences for functional SM-DP+ and SM-DS testing



For your sales enquiries, please contact us at [insecurity@ul.com](mailto:insecurity@ul.com), visit [ims.ul.com](http://ims.ul.com), or contact one of our resellers.

All rights reserved. It is not allowed to multiply, electronically save or publish (parts of) this document, in any form or manner (electronically, mechanically, photocopy etc.) without written approval in advance from UL. UL, the UL logo and the UL certification mark are trademarks of UL LLC © 2019