

# Mobile eUICC Profile Tester

Perform eSIM profile management and verify SIM and eSIM profiles.

## Overview.

The **Mobile Mobile eUICC Profile Tester** is a tool designed for managing embedded SIM (eUICC) profiles and testing both eUICC and SIM profiles on SIM cards or removable eSIMs a.k.a BAP testing.

It serves as an ideal solution to perform the eSIM management and testing activities without requiring access to a Subscription Manager, device or mobile network.

## How it works.

The **Mobile eUICC Profile Tester** can test the complete eUICC profile management lifecycle. It allows you to create a card profile from scratch, load profiles onto an eUICC, enable profiles and delete profiles. SIM and enabled eUICC profiles can then be tested against UL's proprietary XML profile format or against the TCA ASN.1 format using a simple wizard interface.

Fime can help you at any stage of your project lifecycle.

Define

Design

Deliver

Test



SIM and eSIM profile management and test tool.

## Key benefits

- Support for remote eUICC profile management for removable GSMA eUICCs.
- Simulate GSMA subscription model architecture
  - SM-DP, SM-SR, SM-DP+ and LPAd.
- Communicate with and test the SIM or eUICC using multiple secure interfaces.
- Support for Trusted Connectivity Alliance (TCA) Interoperable eSIM Profile Format.
- Includes an LPAd Simulator for downloading profiles from a real SM-DP+.

## Key features

- Support for GSMA M2M ES5, ES6, ES8 and Consumer ES10x, ES6, ES8+, ES9+ and ES11 interfaces.
- Support for eUICC profile management and testing via secure channels SCP03, SCP03t, SCP80 and SCP81.
- Test installed or enabled SIM profiles using proprietary XML and TCA ASN.1 formats (a.k.a. BAP testing).
- Scan SIM or eSIM profiles to explore card content and create new test profiles.
- Support for GSMA M2M SGP.02 and Consumer SGP.22 procedures.

## Libraries.

OTA interface and protocol support	ETSI TS 102 225 and 3GPP 31.115 for SMS notification and profile management.
	ETSI TS 102 226 for profile management.
	ETSI TS 102 223 for low-level BIP support of profile management.
	IETF Transport Layer Security Protocol v1.2 for LPA-SM-DP+ communication.
Multiple secure channel support	Simulation of the GSMA Architecture for M2M and Consumer eUICCs to send data via secure channels to the eUICC:
	<b>M2M</b>
	<ul style="list-style-type: none"> <li>• SCP80 via ES5 interface.</li> <li>• GlobalPlatform Amendment B</li> <li>• SCP81 via ES5 interface.</li> <li>• SCP03 and SCP03t via ES8 interface.</li> </ul>
	<b>Consumer</b>
GSMA architecture simulation	<ul style="list-style-type: none"> <li>• TLS via ES9+ and ES11 interface.</li> <li>• SCP03t via ES8+ interface.</li> </ul>
	Profile verification via GlobalPlatform SCP02, SCP03, SCP80 and SCP81
	Combined simulation of GSMA M2M SM-DP and SM-SR.
	Simulation of GSMA Consumer SM-DP+ and LPA.
	Simulation of ISO, 3GPP and ETSI compliant devices.

## What's in the box?

### Profile management procedures

- M2M – Profile Download and Installation, Profile Enabling, Profile Disabling, Profile and ISD-P Deletion, Master Delete, Default Notification (SMS and HTTPS) and Update POL1 by MNO procedures.
- Consumer – Remote Provisioning, Local Profile Management, Local eUICC Management, eUICC Initialization and Notifications procedures. Including LPA Simulator with support for GSMA Profile Discovery procedure with detailed logs of all active interfaces.
- Integration with Fime Mobile Spy without the need to use SmartConnect hardware to capture session logs.

## Technical specifications.

### For comprehensive ASN.1 profile generation, combine it with the eSIM Profile Generator

- Scan SIM or eSIMs to create test profiles in proprietary XML input format.
- Edit the XML profile visually via the GUI then convert it to TCA ASN.1 formats.
- Visualize TCA ASN.1 formatted profiles.
- Convert ASN.1 to DER and vice versa.

### Profile verification

- Generation of ISO7816 C-APDUs based on input profiles and analysis of the R-APDUs to verify the SIM or enabled eSIM profile.
- Detailed reports highlighting profile differences: file presence, file contents, FCP, Security Domain presence and SCP keyset verification.
- Support for 3GPP Release 18, including 5G updates to the file system.
- SIM profile conformance check against ETSI and 3GPP specifications: ETSI 102 221, 3GPP 31.102 and 3GPP 31.103.

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SIM and eSIM profiles test and management tool.

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