

Overview of eSIM Profile Generator

eSIM Profile Generator provides an ideal test tool for Global System for Mobile Communications (GSMA) Consumer and machine-to-machine (M2M) industry professionals to generate, edit and validate GSMA eSIM profiles based on the Trusted Connectivity Alliance (TCA) Embedded Universal Integrated Circuit Card (eUICC) Profile Package: Interoperable Format Technical Specification.

Benefits

eSIM Profile Generator serves as a tool for quickly generating, editing and validating eSIM or eUICC profiles at your level of comfort, whether that is working at the traditional logical SIM file system view or working directly at the Abstract Syntax Notation One (ASN.1) level. It serves as a companion tool to Mobile eUICC Profile Tester that allows you to load the profile onto your test or production eSIMs, or SM-DP+ Simulator and M2M Server Simulator for loading profiles onto test eSIMs.

Features

eSIM Profile Generator provides a range of powerful features for mobile network operators (MNOs), mobile virtual network operators (MVNOs) Subscription Manager (SM) server vendors, OEMs, eSIM vendors and other key industry players interested in generating test or operational profiles.

- Generate profiles via user interface (UI) driven wizards, scanning SIMs or eSIMs, or editing existing profiles.
- A dedicated editing environment for eSIM or eUICC profiles allows you to work at your comfort level; choose between the traditional logical SIM file system view or work directly at the ASN.1 level.
- Profiles are validated against the key TCA, 3rd Generation Partnership Project (3GPP) and European Telecommunications Standards Institute (ETSI) specifications.
- Create eSIM profile personalization templates that allow you to create random or specific batches of test profiles.



Key benefits

- Generate test or operational profiles via a dedicated UI or directly at the ASN.1 level.
- · Scan SIMs or eSIMs to generate profiles.
- Dynamically generate profiles and translate them into a human-readable format.
- Autogenerate complex profile elements such as EF-ARR, EF-DIR or ELF packages.
- Validate your profiles against TCA eUICC Profile Package: Interoperable Format Technical Specification with dynamic debugging.
- Generate error reports with recommended resolutions.
- Generate detailed overviews of your validated profile with reference to each profile element.
- Create eSIM personalization profile templates to build batches of test or operational profiles.
- Compare different eSIM profiles and generate powerful reports.

Specifications

Industry Specifications

Full support is based on the latest version of TCA eUICC Profile Package: Interoperable Format Technical Specification.

Profile Generation

- · Wizard driven profile creation from scratch.
- Edit profiles in a custom-built UI.
- Copy and paste any MF, DF, EF, Security Domain,
 Application or ELF package from one profile to another.
- Scan SIMs or eSIMs to create profiles.
- Open and edit pre-existing profiles from ASN.1 or Distinguished Encoding Rules (DER).
- Full support is provided for TCA-defined templates.
- Build your library of profile elements and import them at the ASN.1 editing layer as needed.
- Create eSIM personalization profile templates to build batches of test or operational profiles.
- Convert DER profiles to ASN.1.

Profile Validation

- Validate your profiles against TCA eUICC Profile Package: Interoperable Format Technical Specification with dynamic debugging.
- · Validate your profile against 3GPP and ETSI logical rules.

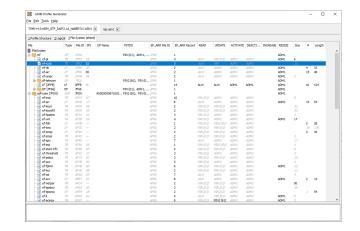
- Generate error reports with recommended resolutions.
- Generate detailed overviews of your validated profile with reference to each profile element.

Profile Comparison

- Compare full eSIM profiles with differences identified and highlighted in the file system, SDs, applications and ELF packages.
- Individual PE templates or individual PEs can also be compared.
- All comparisons can be saved to an HTML report.
- · The identified differences are detailed.

Profile Personalization Templates

- Profiles consist of multiple assigned values (e.g., ICCID, EF-LP, PINs, PUKs, ADM pins, AKA K-Key, OPC, Security Domain, RAM/RFM SCP key values, etc.). The values associated to the profile elements can be set as variables and saved as profile personalization templates to be reused or imported.
- Personalization templates can be populated with randomized values to create a range of test profiles.



File System View

Hardware

 Any standard PC/SC card reader hardware is required to allow you to scan a SIM/eSIM to generate a profile.

For more information, visit <u>UL.com/eSIM.</u>

