

# TCA eSIM Interoperability Service – delivered by COMPRION

Version 1.0, 2023-02-22

## Testing Proposition Options

The customer can choose between three different testing propositions:

- 1. Profile Testing:** Test one (or more) customer-provided eSIM profile(s) against a customer-defined subset of the available portfolio of test devices:
  - Profile is downloaded to a device and enabled.
  - Ability to send a text message, to make a voice call, and to connect to the internet are checked.
  - Optional: test applet functionality (perceivable behavior on the device user interface by a user).
  - Optional: test OTA connectivity<sup>(2)</sup>.
  - Optional: other mutually agreed tests, proposed by customer.
  - Profile is disabled and deleted.
- 2. SM-DP+ Testing:** Test a customer-provided SM-DP+ service against a customer-defined subset of the available portfolio of test devices:
  - Test profile (GSMA TS.48) is downloaded to a device, enabled, disabled and deleted.
- 3. Device (LPA, eSIM) Testing<sup>(2)</sup>:** Test one (or more) customer-provided devices against a customer-defined subset of the provided portfolio of test SM-DP+ services with test profiles:
  - Test profile (GSMA TS.48) is downloaded to a device, enabled, disabled and deleted.

## Modes of Testing Options

The customer can choose between three different modes of testing. Each one can be combined with each testing proposition option:

- 1. Self-Testing:** Customer comes to COMPRION's office in Paderborn, Germany and gets access to devices and the required test tools and conducts testing himself.
- 2. Remote Testing:** Customer conducts testing himself via remote access to test devices, provided by COMPRION. COMPRION facilitates this only as far as local actions are required, for example, to connect a device to the remote access solution.
- 3. COMPRION Conducted Testing:** COMPRION staff conducts the testing locally. COMPRION staff will create a testing report and send it to the customer.

## Pre-Requisites and Customer Contributions

i. General:

- The testing is conducted between SM-DP+ services, using the GSMA live certificates, and devices with eSIMs also using GSMA live certificates.
- The test device portfolio is maintained by COMPRION. It consists of a range of devices, consistent with the GSMA eSIM Technical Specification SGP.22. This means these are consumer devices like smartphones, smartwatches, tablets, laptops. It is extended from time-to-time. The list of contained devices can be obtained from COMPRION.
- COMPRION will provide all required lab equipment, software tools and services, necessary to conduct the described testing.
- In case of self-testing or remote testing: customer is in possession of all skills to conduct testing himself.
- Customer staff can be contacted during the testing session in case of issues with the customer-provided contributions.

ii. Profile Testing:

- Customer ensures that the eSIM profile(s) can be downloaded from a customer-provided SM-DP+ service by scanning QR codes or entering activation codes.
- Provided profiles are operative M(V)NO profiles with the ability to roam with one of the German MNOs: Vodafone, O2, Deutsche Telekom.
- In case of applet testing: Customer provides description of the applet functionality to be tested, as it can be perceived by a device user.
- In case of OTA testing<sup>(2)</sup>: Customer provides all necessary keys.

iii. SM-DP+ Testing:

- Customer provides test profiles (GSMA TS.48 V4.0 SAIP2.1 NoBERTLV) on its SM-DP+ service that can be downloaded by scanning a QR-code.

iv. Device (LPA, eSIM) Testing:

- Customer provides the device.

<sup>(1)</sup> This Service Description Document, together with COMPRION's General Terms and Conditions (<https://www.comprion.com/terms-conditions/>) form the contractual basis of this service).

<sup>(2)</sup> Feature not yet available.

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## Service Description Document

### Testing Process

#### Upfront preparation:

1. Customer specifies the intended testing proposition, mode of testing and test device portfolio by filling-out a COMPRION-provided template.
2. Customer purchases the required testing time:
  - Time slots can be purchased and are planned with the granularity of half days (i.e. 4 consecutive hours; splitting is not possible).
  - Required time depends on the customer-defined testing scope and the number of devices / SM-DP+ services / profiles. Indicative value for testing one profile from one SM-DP+ with one device is 10-30 minutes, depending on e.g.:
    - Time to provide remote access to each device one after another – in case of remote testing.
    - Time to check applet functionality / OTA connectivity – in case this is requested.
    - Time to document test result.
3. Both parties agree on a time slot to conduct the testing within German business days and business hours.
4. Customer ensures that all its required contributions are in place.
5. COMPRION ensures that all test devices / test services are available and in proper shape.

#### Testing session:

1. For each test device / test profile / test SM-DP+:
  - In case of remote testing: COMPRION staff provides remote connectivity to device.
  - Test steps are executed as specified above.
  - Test result is documented, including for example, screenshots if necessary (not in case of self testing).
2. A report with the test results is send to the customer (not in case of self-testing).

### The Benefit

Leveraging this “TCA eSIM Interoperability Service – delivered by COMPRION” can significantly reduce the risk of an interoperability issue. As you can make use of this testing service exactly when you need it, for example, when engineering a new eSIM profile, you can prevent an issue before it hits an end user of a communication service causing credibility and business issues.

By nature of testing, of course there cannot be a guarantee that each and every issue can be detected. But the risk can be significantly reduced.

### Pricing

One half day of testing:

- For members of the Trusted Connectivity Alliance:
  - Self-testing in COMPRION’s office: free-of-charge
  - All other modes of testing: 400 EUR
- For all other companies and for all modes of testing: 700 EUR

Unused testing time cannot be refunded.

If the purchased testing time is not sufficient to conduct the desired testing scope, both parties can agree to continue with the testing. Pre-requisite is that the customer agrees to purchase the additional testing time on COMPRION’s WebShop. Pricing per additional hour or part thereof is:

- For members of the Trusted Connectivity Alliance:
  - Self-Testing in COMPRION’s office: free-of-charge
  - All other Modes of Testing: 125 EUR
- For all other companies: 220 EUR

### Additional Remarks

- In case an interoperability issue is detected, any kind of root cause analysis is not part of this service. COMPRION provides separate “Advanced Testing Services”, which can cover this. Please just contact COMPRION at: [sales@comprion.com](mailto:sales@comprion.com)
- COMPRION will generate reports about the service usage, frequency and types of identified issues. These reports only contain anonymized and aggregated data. COMPRION is entitled to use the data of such reports for public discussions and in particular to share them with the Trusted Connectivity Alliance.

## COMPRION

Test Solutions for a Connected World

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