



# eSIM-in-Device Profile Tester

Validate the content of eSIM profiles in non-removable eSIM.

## Overview.

As non-removable eSIM becomes the industry norm, MNOs, MVNOs, OEMs and eUICC vendors need to validate eSIM profiles on the eSIM inside the device.

The **eSIM-in-Device Profile Tester** is a tool designed for validating that profiles are installed correctly in non-removable eSIMs (NRe) a.k.a. non-removable eSIM BAP testing.

## How it works.

Using AT commands sent via the standard USB interface between Mobile eUICC Profile Tester and the handset under test, or via Wi-Fi and the Fime Android application, the tool can test enabled eUICC profiles against Fime's XML profile format by sending ISO7816 C-APDUs and analyzing the R-APDUs to verify the enabled eSIM profile is provisioned as expected.

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



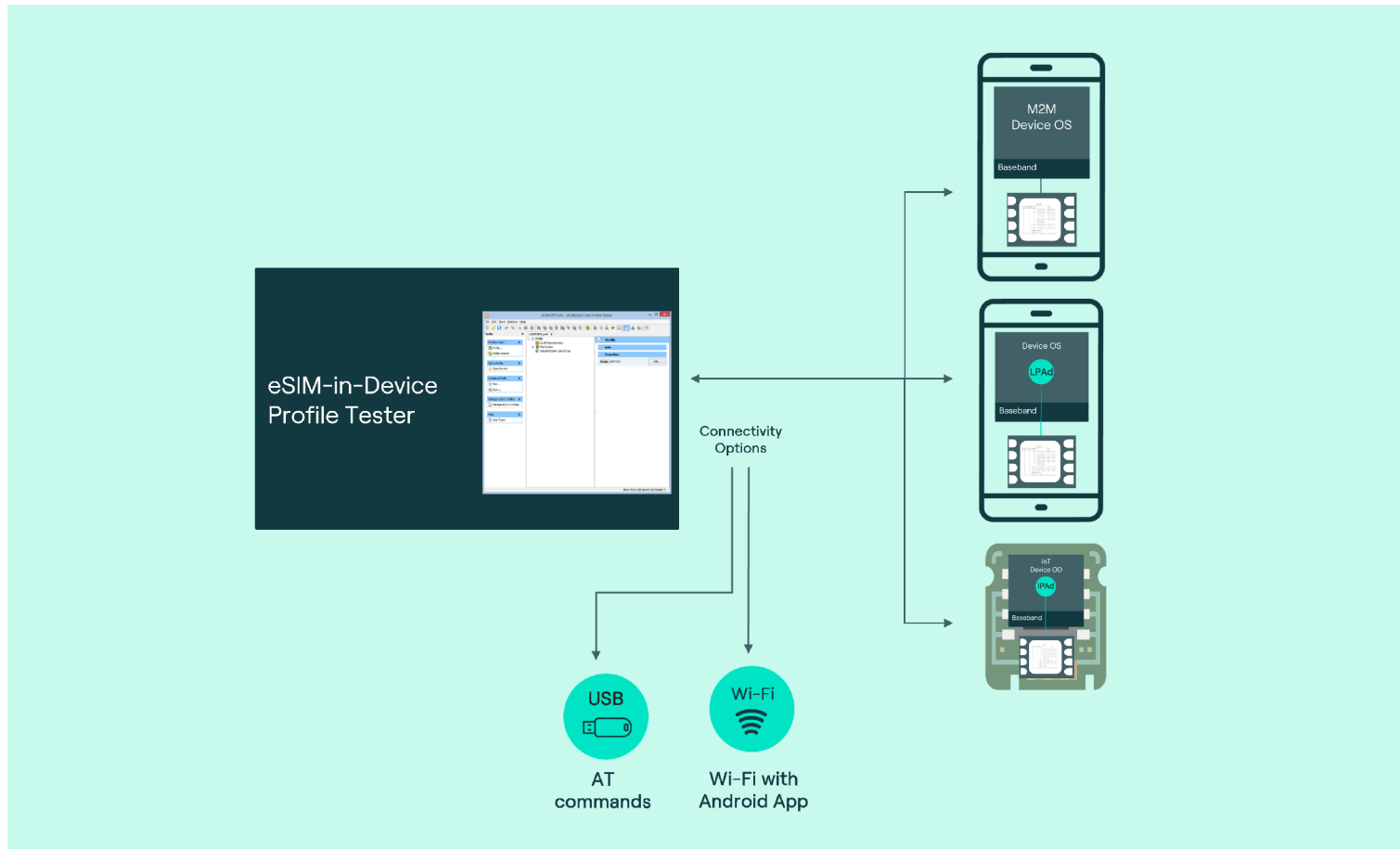
Non-removable eSIM BAP test tool.

## Key benefits

- Scan enabled eSIM profiles to debug interoperability issues between cellular modems vs soldered NRe or integrated eSIM (iSIM) profiles.
- Build test profiles using a dedicated user interface.
- MNO, MVNO, M2M Service providers, OEMs and eSIM vendors can BAP test inaccessible SIM or enabled eSIM Profiles in any device.
- Works with any device cellular modem that supports AT Commands using CSIM, CRSM or CGLA to view the file system and create your own test profiles.

## Key features

- Scan and BAP test enabled profiles on soldered NRe or iSIM including MF, DFs, EFs, their attributes and contents (support for testing any additional installed applications or Security Domains that make up the profile including verification of any associated SCP keys will be added in the future).
- No need to use any proprietary test hardware.
- Multiple connectivity options to target SIM, UICC or eUICC (M2M, IoT or Consumer) in the device/modem via AT Commands or Wi-Fi with Fime's proprietary Android Application.
- Test input is Fime XML (ASN.1 will be added in the future).
- Detailed reports highlighting profile differences in file presence, file contents & FCP.



## Specifications

Custom profile verification with support for 3GPP Release 18, including 5G updates to the file system; 2G (GSM), 3G-5G (W-CDMA) USIM, ISIM, Access Control (ARA-M and PKCS#15), CDMA2000 file systems and SIM profile conformance checks against ETSI and 3GPP specifications:

- ETSI TS 102 221: UICC-Terminal interface; Physical and logical characteristics.
- 3GPP TS 31.101: UICC-Terminal Interface; Physical and Logical Characteristics.
- 3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application.
- 3GPP TS 51.011: "Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface.

## What's in the box?

For both the AT commands via USB connection and the alternative Fime Android application via Wi-Fi options, no additional Fime or 3rd party hardware is required.

For the Wi-Fi option Fime provide an additional Android application and sample ASN.1 to be added to your eSIM profiles.

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## Contact

To learn more about how Fime can help your business:

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Non-removable eSIM BAP test tool.

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