fime

eCall eSIM Test Suite

Test embedded SIM (eUICC) located within an automotive IVDS.

eCall eSIM
testing and verification tool.

Overview.

eCall eSIM Test Suite provides the perfect test tool for the automotive, telecommunication or GSMA M2M industries to test and verify eSIM support in an In-Vehicle Emergency Call Device / System (IVDS) via a simulated cellular mobile network.

Test and verify eSIM support in an IVDS via a simulated cellular mobile network.

It allows testing of industry standard use cases for ERA-GLONASS and GSMA M2M eSIM behaviors.

How it works.

eCall eSIM Test Suite enables testing of an eUICC located within an automotive IVDS. It also acts as a test companion to regional domestic eCall System regulation and testing, e.g., Commission Delegated Regulation (EU) 2017/79.

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

Define Design Deliver Test

Key benefits

- Performs eSIM audit (lists profiles, etc.).
- Supports GSMA SGP.02 and Trusted Connectivity Alliance (TCA) interoperable profile format.
- Is compatible with multiple network simulators.
- Serves as a test companion to regional domestic eCall System regulation and testing, e.g., Commission Delegated Regulation (EU) 2017/79.

Key features

- Supports ERA-GLONASS GOST 33470 chapter 9 Appendix G test cases.
- Supports 61 GSMA SGP.11 M2M eSIM tests re-purposed to run over the Celluar RAN interface of a network simulator.
- Simulates core M2M ecosystem elements.
- Supports SMS SCP80 and RAM over HTTP TLS SCP81 transport layer security protocols, depending on the active control mechanism.
- Supports SCP03 and SCP03t for GSMA SGP.02 profile management procedures.

Specifications.

Industry testing.

- **ERA-GLONASS GOST 33470**, chapter 9, appendix G eSIM test cases.
- **GSMA SGP.11** M2M eSIM test cases.

Over-the-air interface.

- **ETSI TS 102 225** and 3GPP 31.115.
- **ETSI TS 102 226** and 3GPP 31.116.
- **GSMA SGP.02 ES6** (MNO-eUICC) used to send GlobalPlatform CCM between the mobile network operators (MNOs) over-the-air (OTA) platform and the Mobile Network Operator Security Domain (MNO SD) via SCP80 SMS or SCP81 HTTPS.

Multiple secure channel protocols (SCPs).

Uses multiple secure channel protocols (SCPs) SCP03, SCP03t, SCP80 SMS and SCP81 HTTPS to download and perform profile management.

Trusted Connectivity Alliance Interoperable Profile Format

Full support based on Trusted Connectivity Alliance (TCA, former SIMalliance) eUICC profile package: interoperability functional requirements specification used for Abstract Syntax Notation One (ASN.1) profile.

What's in the box?

Depending on your preferred connectivity option, you may need to purchase a low-cost network simulator or provide your own network simulator.

- You can use your own network simulator, or we can direct you to our vendor partner from whom you can purchase a small, low-cost, fully functional 4G network simulator.
- If you choose to use your own network simulator and we can support it, we'll provide integration support to connect the **eCall eSIM Test Suite** to your network simulator.

Technical specification.

ERA-GLONASS emergency call system GOST 33470, chapter 9.

- M2M eSIM profile download and installation, profile disable, profile enable and profile deletion.
- Testing performed via AT commands, SCP80 SMS or SCP81 HTTPS, depending on data control mechanisms implemented by the eUICC, as defined in GOST 33470, appendix G.

GSMA SGP.11 M2M eSIM functional test cases.

61 reconfigured test cases to run eSIM testing while located in the IVDS via a network simulator.

Contact

To learn more about how Fime can help your business:
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F-T-ECALLESIM-A
eCall eSIM testing and verification tool.

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