



LS to IMTC IMS Activity Group

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Document Summary

This Document provides an answer to LS on IMTC's status of VoLTE work in the IMS Activity Group received dated on the 16th of September from the GSMA Device Group.

Document History

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Liaison Statement

Liaison Statement Title:	Reply to the LS from IMTC on the status of VoLTE work in their IMS Activity Group
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The GSMA Devices Group (DG) thanks IMTC for their LS, and welcomes this step to avoid duplication of test definition effort whilst ensuring appropriate overall coverage. DG acknowledges the fact that the “DG26_015 IMTC_Test_Cases_v0 11_clean” test specification covers the main aspects to be verified regarding interoperability of VoLTE clients.

We understand that the purpose of DG’s test recommendations differs from IMTC Test Specifications as follows:

- the phase within the life cycle of a device in which the tests are executed
- the test coverage itself.

These points are addressed below.

Test phase:

GSMA Device Group produces End to End test recommendations to confirm the operation of the terminal within the wider system, under conditions representative of the real-world, viewing the device as a ‘black box’.

Such tests assume that each part of the terminal has been already validated. The VoLTE client is one part of the overall device. Others parts of the device can be, for example, the 2G/3G & LTE modem, or any application like a Video Player. The IMTC Test Cases appear to be appropriate to this validation.

Typically, DG's test cases do not consider details such as message sequences: they rather examine functionality at the user-level.

Therefore DG would anticipate that the current IMTC test cases would be used at an earlier stage than DG's own test cases.

Test Coverage vs IREG 92:

We note that the LS states *"The IMTC has been working in recent months on the creation of a comprehensive test specification for GSMA PRD IR.92"*.

Our understanding is that the currently-described tests are covering mostly the following aspects of IR.92: Chapter 2 (IMS feature set) & Chapter 3 (IMS media).

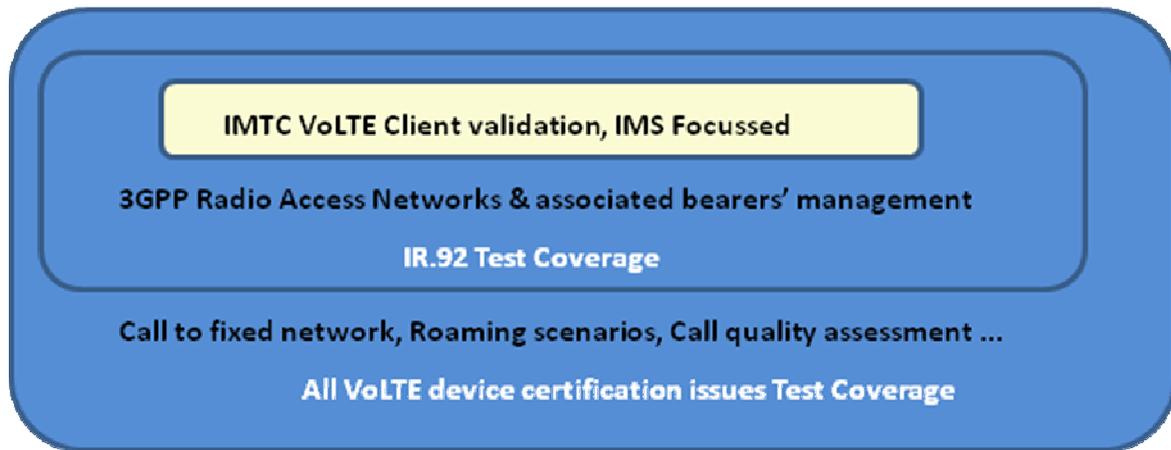
They do not seem to be 'comprehensive' (as statement mentioned above) at this stage, and do not cover the chapters relative to 3GPP Radio Access Networks & associated bearers' management: Chapter 4 (Radio and packet core feature set) & Annex A (Complementing IMS Voice Service with Circuit Switched Voice Access).

To avoid potential duplication, DG would welcome IMTC's confirmation of the expected final scope of their tests.

The validation of the aspects covered in Chapter 4 and Annex A is probably not needed to confirm the interoperability of VoIMS clients in the earlier test execution phase; however they need to be considered, and will be taken into account, when defining the DG test cases focussing on End to End user experience in the later test execution phase.

Additionally DG will define more tests cases for VoLTE certification not directly related to IREG92.

Our understanding of the test coverage can be summarized as below:



In yellow: DG's expectation of the final scope of IMTC's test cases.

In blue: tests that the device group plans to specify for VoLTE certification which are additional and complementary to the IMTC test specification.

As examples, DG would provide test cases for:

- Interworking with the circuit switched voice part, i.e. one subscriber users VoLTE while the other side is connected via a CS network

- Roaming scenarios, i.e. to ensure the VoLTE client works when the user is in a foreign network. The VoIMS can either be de-activated in order to use CS Voice call either being used with a foreign packet network (UMTS or LTE).
- Ensuring the VoLTE client is integrated in the user interface and provides a seamless experience for the user concerning CS interworking.
- Testing between different clients and different networks, because signalling is end to end.
- Ensuring the transparency of bearer from the user's point of view
- Fallback to CS behaviour for the user
- Call-related SS
- Call to a fixed network.

Summary:

IMTC's work in the IMS Activity Group is seen as very useful to de-risk the VoLTE client part of the device.

It is seen as complementary and not duplicating the GSMA DG work.

DG would welcome clarification of any intention of IMTC to produce a *comprehensive test* specification for IR.92, but doesn't see additional areas for the IMTC IMS group to investigate at the moment beyond v0.11 already shared.