Global TD-LTE Initiative **Beijing, China**

Ref: 2018-TERM-01

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3GPP RAN4

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Subject: Input from GTI on test case Priority for 5G/NR UE Conformance Test work Item

GTI would like to thank 3GPP RAN5 group for making good progress in the 5G/NR conformance test specifications. After reviewing the latest wok plan [1] and status report [2], we would like to provide the following inputs about the test case priority for RAN5's reference.

There are quite a few operators in GTI are targeting 5G commercial services in sub-6GHz bands, for example n78, n79, n3, n41, n77 and, etc. GTI understands that 3GPP have completed the most of the Release-15 core technical specifications for Non-Standalone configuration (NSA) in December-2017 and are currently working on SA core specifications aiming to complete in June-2018. GTI is also very happy to see that RAN5 will complete SA Phase 1 by November-2018 (RAN5#81). For the conformance tests, GTI would like to specify the test cases that are common to NSA and SA configurations as well as those that are specific to SA configuration as priority. By prioritizing the following test cases in sub-6GHz, GTI operator members could get these test results earlier, which could make the GTI operator members have more confidence in 5G's deployment. And GTI believes that will greatly help to promote 5G's earliest possible large-scale commercialization.

For the PCT part, GTI priority includes the test cases of PLMN selection, Cell selection and reselection, the basic function of Layer2, Paging, RRC connection establishment / reconfiguration, Handover, Measurement configuration control and reporting, mobility management, etc.

For the RF part, GTI priority includes the test cases of Tx Maximum Output Power, MPR/A-MPR/Pcmax, Minimum Output Power, OBW / ACLR / SEM / Off Power, On/Off Time Mask / Power Control, EVM / Frequency Error / Carrier Leakage / In-band Emission, Sensitivity, Max Input, Blocking, etc.

For the performance part, GTI priority includes the test cases of throughput and latency.

However, GTI understands that RAN5 have a dependency on RAN4 to complete the specifications for RF performance before test cases could be completely defined by RAN5. GTI would be happy to see that through the good close cooperation between RAN5 and RAN4, SA Phase 1 will be completed as planned. For this reason, RAN4 is copied on this liaison statement for their information.

GTI kindly requests RAN5 to

1. Review the GTI priority in sub-6GHz and planned the work in the conformance test specifications and TTCN implementations to take into account of this input.
2. To choose the first golden TTCN protocol test case from those that are applicable to NSA (option 3) and SA (option 2), but without affecting RAN5 current working plan. This will in fact benefit all operators regardless of the network configuration they have chosen for their initial service.

It would be appreciated if RAN5 could provide a response to this GTI request. We look forward to further progress of the conformance test work item in the coming months. And GTI would like to share more information about 5G's industry progress with RAN5 in the future.

Date of Next GTI Meetings:

GTI Workshop #22	25-26 June 2018	Shanghai, China

Reference

[1] R5-180247 “WP UE Conformance Test Aspects - 5G system with NR and LTE – Status after RAN5#1-5G-NR Adhoc”

[2] R5-180248 “Status Report to TSG - UE Conformance Test Aspects – 5G system with NR and LTE”