

Title: GTI liaison on Handover support between LTE FDD and LTE TDD

Source: GTI Task Force – Handover between LTE FDD and LTE TDD

To: 3GPP TSG RAN WG4
3GPP TSG RAN WG5

CC: 3GPP TSG RAN

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Attachments: -

1. Introduction

Global TD-LTE Initiative (GTI) is a virtual open platform to advocate cooperation among global operators to promote TD-LTE. GTI is formed to create value for stakeholders across the TD-LTE ecosystem for early adoption of the technology and convergence of TD-LTE and LTE FDD. GTI was founded by leading international mobile network operators in February 2011 to meet the demands for growing mobile broadband and explore new opportunities across industry and public segments.

GTI aims to bring together the leading operators to steer the TD-LTE ecosystem as a major standard in mobile broadband technology and drive early development of next generation mobile broadband networks.

2. Handover support between LTE TDD and LTE FDD

The Task Force on Handover between LTE TDD and LTE FDD (GTI TF HO) is currently working on the consolidation of operators' requirement on roaming and handover (mobility) scenarios between LTE TDD and LTE FDD. The result of this activity should support the industry to understand the operators' priorities and facilitate the harmonisation of both operator and vendor roadmaps on this subject.

The GTI TF HO appreciates the work of 3GPP TSG RAN WG4 and WG5 in defining requirements and test cases that support LTE mobility in 3GPP technical specifications TS 36.133, TS 36.521-3, and TS 36.523-1, as well as the test environments in TS 36.508.

The GTI TF HO would like to kindly ask RAN WG4 to add the missing E-UTRA TDD RRM TCs into Release 8 of TS 36.133 for the case of mobility between E-UTRA TDD and E-UTRA FDD, including cell reselection, handover and supporting measurements, as well as TCs to support mobility from E-UTRA TDD to HRPD and 1xRTT. It is worth noting that RAN WG4 has the core requirements covered for all FDD-TDD mobility scenarios, including all inter-RAT scenarios, but the test case definitions for some E-UTRA TDD scenarios, including both intra- and inter-RAT, that accompany the core requirements are incomplete.

The GTI TF HO would like to kindly ask RAN WG5 to add complementary TCs into TS 36.521-3 and to add or to clarify protocol test cases in TS 36.523-1 or test environments in TS 36.508 for the case that RF abstracted inter-band protocol test cases need to run across duplex modes when a device supports both FDD and TDD bands.

3. Requested action

1. The GTI TF HO kindly asks RAN WG4 to add RRM TCs into TS 36.133, noting that that RAN WG4 has already developed the core requirements for all FDD-TDD mobility scenarios in TS 36.133 but the test case drafts to accompany the core requirements are incomplete.
2. The GTI TF HO kindly asks RAN WG5 to add complementary RRM TCs into TS 36.521-3 and to add or to clarify protocol test cases in TS 36.523-1 or test environments in TS 36.508 for the case that RF abstracted inter-band protocol test cases need to run across duplex modes when a device supports both FDD and TDD bands.

4. Next meeting

The next meetings of the GTI TF HO are listed below for your information.

3. GTI Workshop	November 2011	Hong Kong, China
4. GTI Workshop	February 2011	TBC