CTIA Certification Program Working Group
Liaison Statement

To	Global Certification Forum (GCF) PAG
CC	RAN5, RAN4, PTCRB, PVG, GCF SG
Source	CTIA MIMO OTA Subgroup (MOSG)
Subject	Response LS to PAG-16-46: LS PAG-16-046 to 3GPP RAN5 on TR 37.901from GCF-PAG
Date	19 September, 2016

1. Introduction

    The CTIA MIMO OTA Subgroup (MOSG) would like to thank GCF PAG for including the CTIA MOSG in their recent LS to TSG RAN WG5 entitled "LS on TR 37.901" [1]. The CTIA MOSG would like to take this opportunity to provide the GCF PAG with input concerning this topic.

2. Discussion

    The CTIA MIMO OTA Subgroup (MOSG) agrees with TSG RAN WG5 in their response [2] that the logical OTA extension of the conducted throughput testing currently defined in 3GPP TR 37.901 [3] would be MIMO OTA testing. In our recent response to PAG-16-038r1 ("New Performance Item MIMO OTA") [4], the CTIA MOSG has provided details concerning the CTIA MIMO OTA test plan and its current status as part of CTIA certification testing. The CTIA MOSG would like to highlight that the conducted testing defined in 3GPP TR 37.901 [3] is based upon setting a specific SIR value for the test, with few exceptions. The MIMO OTA test procedure defined by the CTIA MOSG in the CTIA Test Plan for 2x2 Downlink MIMO and Transmit Diversity Over-the-Air Performance [5] also employs specific SIR values when evaluating the UE's Transmission Mode 3 (TM3) performance in an OTA environment. In contrast, the current TSG RAN WG4 MIMO work item evaluates the UE's TM3 performance in a UE-noise limited OTA environment. Consequently, the CTIA MOSG believes that the CTIA MIMO OTA test procedure is more closely aligned with the SIR-controlled conducted testing specified in 3GPP TR 37.901 [3] than the current 3GPP MIMO OTA methodology.

3. Actions

    None

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Date of Next CTIA OTA WG Meetings:

19 September 2016, Teleconference

18 October 2016, Face-to-Face, Overland Park, KS, USA

References:

[1] GCF PAG-16-046: *LS to 3GPP RAN5 on TR 37.901*, GCF PAG, August 2016.

[2] R5-165959: *Reply LS on TR 37.901*, TSG RAN WG5, August 2016.

[3] 3GPP TR 37.901: *User Equipment (UE) application layer data throughput performance*

[4] *Response LS to PAG-16-038r1: New Performance Item MIMO OTA*, CTIA MOSG, August 2016.

[5] *CTIA Test Plan for 2x2 Downlink MIMO and Transmit Diversity Over-the-Air Performance*, Version 1.1, August 2016