

CTIA Certification Program Working Group Liaison Statement

To	3GPP TSG RAN4, 3GPP TSG RAN5
CC	3GPP RAN Plenary
Source	CTIA MIMO OTA Sub-Group
Subject	LS to 3GPP RAN4 and RAN5 Regarding the CTIA MIMO OTA Test Plan Roadmap
Date	10 November, 2015

1. Introduction

The CTIA – The Wireless Association® MIMO OTA Sub-Group (MOSG) would like to inform 3GPP TSG RAN4 and 3GPP TSG RAN5 regarding recent updates in the development of the MIMO OTA Test Plan within CTIA.

2. Discussion

In an LS to 3GPP TSG RAN4 [1] and RAN5 [2] earlier this year, CTIA – The Wireless Association®, informed RAN4 and RAN5 that v1.0 of the CTIA MIMO OTA test plan had been released and was publicly available from the CTIA web site.

The CTIA MIMO OTA Subgroup (MOSG) is currently planning the roadmap for versions 1.1, 1.2, and 1.3 of the MIMO OTA test plans. The proposed roadmap includes the following:

- Version 1.1: *SIR Validation for TDD, Incremental Updates to V 1.0*
- Version 1.2: *Single MARSS Outage Point, Transmit Diversity Methodology based on at least one test system, Incremental Updates to V 1.1, Target Inclusion of RTS for MIMO OTA*
- Version 1.3: *Inclusion of HL/HR Hand Phantoms for MIMO OTA, Inclusion of HL/HR and BHHL/BHHR for TXD OTA, Incremental Updates to V 1.2*

Although v1.0 of the test plan focused solely on the multi-probe anechoic chamber (MPAC) methodology for MIMO (TM3), the MOSG has been evaluating other test methodologies, including reverberation chamber plus channel emulator (RC+CE), reverberation chamber (RC), and radiated two stage (RTS) for transmit diversity (TM2) testing. The MOSG views the inclusion of additional test methodologies as an important step to insure a robust ecosystem that can address the TM2 testing needs of all device types. For v1.2, MPAC, RC+CE, and RC are under evaluation for transmit diversity (TM2) testing, and a harmonization exercise between these methods is under way. In addition, the MOSG has concluded that RTS should also be included as a candidate for v1.2 for both MIMO (TM3) and transmit diversity (TM2).

Questions concerning the CTIA MOSG or the content of this LS should be sent to ota-mosg-info@ctia.org.

3. Actions

None.

Contact Info

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References

[1] R4-155103; *LS to 3GPP RAN4/RAN5 Regarding CTIA MIMO OTA Test Plan Development* (CTIA).

[2] R5-153694; *LS to 3GPP RAN4/RAN5 Regarding CTIA MIMO OTA Test Plan Development* (CTIA).

Date of Next CTIA MIMO OTA Subgroup Meeting:

CTIA MOSG #58

Conference Call

1 December, 2015