



10900-B Stonelake Boulevard, Suite 126 • Austin, Texas 78759 U.S.A.
Phone: +1-512-498-9434 (WIFI) • Fax: +1-512-498-9435
www.wi-fi.org

Liaison Transmittance of Information

Name of External Organization: GSM Association (GSMA)

Date: January 27, 2020

Title(s) of Document(s) Sent: Response LS Regarding WLAN OTA Antenna Performance Group

Source Group within the Wi-Fi Alliance: CTIA/Wi-Fi Alliance Joint Working Group for Wi-Fi Mobile Converged Device Testing (CWG)

Requested Action(s): Response LS concerning the draft TS.49 WLAN Antenna Performance Testing document

The documents sent may only be used for the purposes of the liaison communication pursuant to the terms of the Liaison Agreement between the Wi-Fi Alliance and the organization noted above.

You acknowledge and agree that (i) the Wi-Fi Alliance has not conducted an independent intellectual property rights review of the documents and the information contained therein, and makes no representations or warranties regarding third party intellectual property rights, including without limitation patents, copyrights or trade secret rights; and (ii) the documents may contain inventions for which you and your members must obtain licenses from third parties before making, using or selling the inventions.

The input of the documents and information from the Wi-Fi Alliance in no way obligates the Wi-Fi Alliance nor its members to any of the membership policies, including but not limited to the intellectual property rights policy, of your organization.

YOUR USE OF THE DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS IS AT YOUR SOLE RISK. THE DOCUMENTS ARE PROVIDED ON AN "AS IS" "AS AVAILABLE" AND "WITH ALL FAULTS" BASIS. THE WI-FI ALLIANCE DISCLAIMS ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES OF ANY KIND, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

TO THE FULL EXTENT PERMITTED BY LAW, THE WI-FI ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF BUSINESS, REVENUE, PROFITS, GOODWILL, USE, DATA, OR OTHER ECONOMIC ADVANTAGE) ARISING OUT OF OR IN CONNECTION WITH THE USE OF THESE DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

☐ Public ☒ Confidential

If the confidentiality box is selected, this liaison receipt of information is intended to be confidential pursuant to the agreement between the Wi-Fi Alliance and organization noted above. Neither party should make this communication available to non-members.



Liaison Statement

To	GSMA TSGWAP Subgroup
Source	CTIA/Wi-Fi Alliance Over-the Air (OTA) Converged Wireless Sub Working Group
Subject	Response LS Regarding WLAN OTA Antenna Performance Group
Date	January 27, 2020

Introduction

The CTIA/Wi-Fi Alliance Joint Working Group for Wi-Fi Mobile Converged Device Testing (CWG) would like to thank GSMA for their recent LS concerning the draft TS.49 WLAN Antenna Performance Testing document.

CWG appreciates GSMA's interest in the Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices (referred to hereafter as the Test Plan). The CWG reviewed the LS on December 11, 2019 and would like to propose ways the GSMA TSGWAP Subgroup could work with the CWG to ensure that the Test Plan incorporates TSGWAP's needs as opposed to creating a separate test plan.

Discussion

As proposed in the CWG June 7, 2019 LS, we suggest that the CWG and GSMA's TSGWAP work together to identify any unique requirements of the TSGWAP and incorporate these into the Test Plan. We believe that it is in the best interests of the global wireless industry to avoid the potential of diverging test requirements for wireless devices and a single test plan would facilitate this goal.

Another advantage of having the TSGWAP's requirements captured in the Test Plan is the ability to utilize the global network of test labs authorized to conduct testing to the Test Plan. CTIA and Wi-Fi Alliance have developed a rigorous test lab evaluation and authorization process to ensure authorized test labs have the necessary equipment and expertise to accurately execute the Test Plan. Over the course of 13 years this network has grown to 46 authorized test labs, which may be referenced here <https://www.ctia.org/about-ctia/programs/certification-resources>.

Due to copyright and intellectual property rights provisions in CWG and the Test Plan, the Test Plan may not be incorporated into another document and expanded upon in the manner of the draft TS.49 document. Instead, we encourage the TSGWAP to work with the CWG to ensure the Test Plan meets its needs. Upon our review of the document, it appears the unique scope is minimal and could be submitted to CWG for consideration in an upcoming revision of the Test Plan.

We propose two ways for the CWG and TSGWAP to collaborate. The first, and preferred, way would be for members of the TSGWAP to directly participate in the CWG. Companies that are members of either CTIA or the Wi-Fi Alliance can freely join the



CWG. It is likely that companies in the TSGWAP are already members of Wi-Fi Alliance or CTIA or both. This would be the most efficient process, allowing for real-time direct collaboration. The CWG meets every two weeks for one hour via teleconference. The second way to collaborate would be for the CWG and TSGWAP groups to exchange LSs to communicate requirements, requests, questions, answers and draft documents. This approach is less direct and therefore less efficient.

We look forward to the opportunity to work directly with TSGWAP members on a single WLAN OTA test methodology and set of performance requirements, and we hope one of the proposed collaboration methods is acceptable. The CWG chairs along with CTIA and Wi-Fi Alliance staff are open to another administrative teleconference to discuss a way forward with this proposal.

Contact Info

- Michael Foegelle, Co-Chair for CTIA, CTIA/Wi-Fi Alliance Joint Working Group for Wi-Fi Mobile Converged Device Testing, ETS-Lindgren
foegelle@ets-lindgren.com
- Michael Montemurro, Co-Chair for Wi-Fi Alliance, CTIA/Wi-Fi Alliance Joint Working Group for Wi-Fi Mobile Converged Device Testing, Blackberry
mmontemurro@blackberry.com
- Lisa Ward, Secretary, CTIA/Wi-Fi Alliance Joint Working Group for Wi-Fi Mobile Converged Device Testing, Rohde & Schwarz
Lisa.Ward@rsa.rohde-schwarz.com
- Ron Borsato, Co-Chair, CTIA OTA Working Group, PCTEST Engineering Lab,
ron.borsato@pctest.com
- Scott Prather, Co-Chair, CTIA OTA Working Group, AT&T,
scott.prather@att.com

Future CWG Meetings

- February 5, 2020 and every two weeks thereafter, based on available content for review.