

CTIA Certification Program Working Group Liaison Statement

To	GSMA TSGIoT Subgroup
CC	Wi-Fi Alliance, 3GPP RAN4, GCF SG, CAG & PAG, ETSI, EU Radio Spectrum Committee
Source	CTIA Over-the Air (OTA) W-IoT Sub Working Group
Subject	LS on OTA testing of IoT devices
Date	May 2, 2019

Introduction

The CTIA Wireless Internet of Things (W-IoT) Sub Group would like to thank GSMA for their recent LS concerning OTA Testing of IoT Devices.

The CTIA W-IoT Sub Group would like to take this opportunity to respond to the two questions included in GSMA LS **TSGIoT15_003**.

Discussion

GSMA TSGIoT LS Question 1:

The CTIA W-IoT SG has successfully addressed such areas as:

- A-GPS performance in wireless IoT devices
- Cabling and positioning for IoT devices
- Cellular de-sense testing of IoT devices
- Large form factor device testing
- Use of phantoms for the testing of body worn devices.

CTIA has defined a forearm phantom for the purpose of testing wrist-worn devices. The forearm phantom is defined in the latest version of the CTIA Test Plan for Wireless Device Over-the-Air Performance which can be found at <https://www.ctia.org/about-ctia/test-plans/>.

The development of phantoms required for IoT OTA assessment has been transferred to the CTIA Near Field Phantoms sub-working group. Chest and ankle phantoms are two examples of phantoms that are being actively developed for the OTA assessment of body worn devices.

The W-IoT SG has also been instrumental in the development of an OTA test methodology for application within business sectors such as Bluetooth Basic Rate, Bluetooth LE and ZigBee.

GSMA TSGIoT LS Question 2:

This group is currently evaluating:

- The OTA test aspects of IoT devices which utilize multiple wireless modules
- Utilization of different chamber types (such as the use EMC chambers for large form factor devices)
- Wireless testing of radios in automotive vehicles

The work items above is currently ongoing and has a target completion date of Oct 2019, at which time our editorial team will work on a final contribution for inclusion of the technical text into the CTIA OTA Test Plan.

We welcome the opportunity to work with the GSMA moving forward on the topic of IoT product verification. Please don't hesitate to contact our co-chairs for further information.

Contact Info

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Date of Next CTIA OTA W-IoT Sub Group Meeting:

Wednesday May 22nd 2019, Conference Call