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| APTlogogreen3 | ASIA-PACIFIC TELECOMMUNITY | **Document:** |
| **The 4th Meeting of the APT Conference Preparatory Group for WRC-19 (APG19-4)** | **APG19-4/INP-06** |
| 7 – 12 January 2019, Busan, Republic of Korea | **10 October 2018** |

Chairman, APT Wireless Group

**Liaison statements from AWG**

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| **Title of the Liaison Statement:** | Progress of AWG studies related to WRC-19 agenda items |
| **Objective:** | For Information and consideration |
| **Origin:** | APT Wireless Group (AWG) |
| **Contact:** | Dr. Kohei Satoh, Chairman, AWG |

The APT Wireless Group (AWG) would like to thank APT Conference Preparatory Group for WRC-19 (APG-19) for its liaison statement (Document APG19-3/OUT-35 and OUT-37) concerning “Studies in AWG associated with WRC-19 agenda items”. In those liaison statements, AWG was requested to inform APG-19 of its progress of the studies in a timely manner. In accordance with this request, AWG would like to provide information on progress as follows:

1. **AWG studies related to WRC-19 agenda item 1.12**

The AWG-23 finalized and approved the revision of the APT Report *“ITS Usage report in APT Member Countries”* (Report No. APT/AWG /REP-18 (Rev.2)). This report may assist APT Member countries in preparation of WRC-19 Agenda Item 1.12. The report is attached in the Annex of this Liaison Statement.

1. **AWG studies related to WRC-19 agenda item 1.13**

Based on a questionnaire to the APT Members, AWG is collecting information on usage and future plan for the frequency bands being considered under WRC-19 Agenda Item 1.13. The received responses to the questionnaire from some APT Members are compiled into a working document towards a draft new APT Report. AWG received further responses from some APT Members. The latest version of the working document is available in Document AWG-24/TMP-27 and its detailed workplan is available in Document AWG-24/OUT-16. The document and relevant workplan are attached in the Annex of this Liaison Statement.

Further, the 24th Meeting of the AWG (AWG-24), held in Bangkok, Thailand from 17 to 21 September 2018, updated the working document towards a preliminary draft APT Report on “*Sharing and Compatibility Studies for IMT above 24 GHz for APT region”* (Document No. AWG-24/TMP-62). According to the final results of sharing studies in TG 5/1, this working document is being developed to analyze the TG5/1 study results, so that it would provide the information on how those results were achieved.

Note that the analysis of technical conditions provided in the attached working document is simply intended to describe studies that have been undertaken in relevant ITU-R Study Groups. The intent of that analysis is neither to provide any alternative analysis, nor is to challenge or question the methods or parameters used in ITU-R studies related to WRC-19 Agenda Item 1.13. The working document is attached in the Annex of this Liaison Statement.

1. **AWG studies related to IoT/MTC**

At AWG-22, the Task Group on Short Range Devices (TG SRD) was renamed to Task Group on IoT (TG IoT) to study and discuss topics relating to Internet of Things (IoT). A questionnaire was developed to collect information on current status and future plan of implementation and deployment of IoT in APT Member countries. Based on the replies to the questionnaire and the input contributions received at the AWG-23 and AWG-24, AWG approved the APT Report on "*Current Status and Future Plan of Implementation and Development of IoT in Asia Pacific Countries*" (Report No. APT/AWG/REP-86). The Report is attached in the Annex of this Liaison Statement.

1. **AWG studies related to a possible future Agenda Item on HAPS**

During AWG-23 an Ad Hoc Group was established to consider the issues related to HAPS. A questionnaire was developed to collect the information on the current status and future plan of implementation and deployment relating to HAPS in APT countries to facilitate the study of the existing and future operation of HAPS in the frequency band around and below 2 GHz in the Asia Pacific region and to support discussion of a possible future WRC-23 Agenda Item in APG-19. AWG-24, held in Bangkok, Thailand from 17 to 21 September 2018, continued its work. Based on the replies to the questionnaire and the input contributions, AWG developed a working document towards a preliminary draft new APT Report on “*Technical and operational analysis for using HAPS as IMT base station in the frequency bands around and below 2GHz identified to IMT’* which provide technical and operational analysis information as required by APG-19. AWG will further develop this report at AWG-25 in 2019 and provide the information to APG19-5. The working document is attached in Annex of this Liaison Statement.

AWG would appreciate if APG-19 could provide comments, if any, on the above activities before the next AWG meeting.

AWG looks forward to continuing its cooperation with APG-19.

**Dr. Kohei Satoh**

Chairman, APT Wireless Group (AWG)

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**ANNEX**

**List of documents which are being studied in AWG associated with WRC-19 agenda items:**

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| **Document No.** | **Responsible AWG WG** | **Document Title and Embedded File** |
| APG/AWG/REP-18 (Rev.2) | WG Tech | APT Report on “*Usage of Intelligent Transportation Systems in APT Countries”* |
| AWG-24/TMP-27 | WG Tech | Working Document towards a preliminary Draft New APT Report on responses to the Questionnaire on “*Usage and future plan of frequency band in relation to studies on WRC-19 Agenda item 1.13 in Asia-Pacific Region*”. |
| AWG-24/OUT-16 (Relevant part only) | WG Tech | Associated Workplan on “*Usage and future plan of frequency band in relation to studies on WRC-19 Agenda item 1.13 in Asia-Pacific Region*” |
| AWG-24/TMP-62 | WG Spec | Working Document towards a Preliminary Draft New APT Report on “*Sharing and compatibility studies for IMT above 24 GHZ for APT region*” |
| APT/AWG/REP-86 | WG Tech | APT Report on "*Survey on Current status and future plan of implementation and deployment of Internet of Things in Asia Pacific region Countries*" |
| AWG-24/TMP-69 (Rev.2) | Ad Hoc HAPS | Working document towards a Preliminary Draft New APT Report on “T*echnical and operational analysis for using haps as IMT base stations (hibs) in the frequency bands around and below 2 GHZ identified to IMT”* |