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|  | ASIA-PACIFIC TELECOMMUNITY**Concept Note:** **The 21st Meeting of the APT Wireless Group (AWG-21)**3 – 7 April 2017, Bangkok, Thailand  |  |

**Background/Context**

 The Terms of References of the APT Wireless Group (AWG) cover the followings:

* Carry out studies and develop outputs to facilitate the harmonization of spectrum usage, the efficient and effective deployment of radiocommunication systems, and the development of new radiocommunication technologies and applications
* Support and assist APT Members in using the radio frequency spectrum and deploying radio network effectively
* Share information on spectrum usage and emerging radiocommunication technologies and applications, within Asia-Pacific region
* Encourage radiocommunication industry research and development, and promote related telecommunication business activities
* Perform technical and operational studies to support for World Radiocommunication Conferences (WRCs) if requested by the APT Preparatory Group for WRCs
* To communicate with, as well as develop APT proposals to related international and regional organizations on radiocommunication matters, as appropriate, to promote interests of APT Members.

The work areas of AWG include: spectrum arrangement and harmonization; spectrum monitoring; spectrum sharing studies; future development of IMT; fixed wireless systems; software defined radios; intelligent transport system; wireless power transmission; modern satellite systems; aeronautical and maritime; PPDR and railway radiocommunication.

Following the outcomes of AWG-20, currently AWG is working on the following work items:

1. Development of a draft APT Recommendation on harmonized frequency arrangements for PPDR in frequency ranges included in Res.646 (Rev.WRC-15)
2. Development of APT Recommendation on Frequency Ranges for Non-Beam WPT for Mobile Devices
3. Harmonized frequency arrangement in the band 470 – 698 MHz
4. Studies on frequency arrangements in the band 1427-1518 MHz
5. Harmonized frequency arrangement in the band 3 300 – 3 400 MHz
6. Frequency arrangement in the band 4 800 – 4 990 MHz
7. APT Report on sharing and compatibility studies for selected frequency bands below 6GHz
8. APT Report on sharing and compatibility studies for IMT above 24GHz
9. Development of a draft APT Recommendation on Licensed Shared Access (LSA)
10. APT Report on Grid Monitoring Network using TDOA Technology
11. APT Report on Spectrum Monitoring Methodology at the Border Areas
12. Survey of usage and future plan of frequency bands in relation to studies on WRC-19 Agenda Item 1.13 in Asia-Pacific region
13. Study on Geo-Location Database as an enable technology of CRS
14. APT Report on FWS link performance under severe weather conditions
15. APT Report on In-band Full Duplex system for Fixed Wireless Service
16. Revision of the APT Report on the usage of ITS in APT countries
17. APT Report on Services and Applications of Wireless Power Transmission(WPT) Technology
18. APT Report on Frequency Ranges used for Non-Beam WPT for Electric Vehicles
19. Studies within the Architecture and Performance of Integrated MSS Systems and Hybrid Satellite/Terrestrial Systems below the 3 GHz Band
20. Usage and Future Plans of the bands 17.7-20.2 GHz and 27.5-30 GHz in Asia-Pacific Region
21. Study of possible services and applications for public use of unmanned aircraft
22. Study of usage, regulation of the bands 457.5125-457.5875 MHz and 467.5125-467.5875 MHz for UHF on-board vessel communication in Asia Pacific region
23. Study of usage, regulation of the bands 108 – 117.975 MHz, 328.6 – 335.4 MHz and 960 – 1164 MHz for aeronautical radionavigation systems in Asia Pacific region
24. APT Report on Implementation of Public Safety LTE (PS-LTE) Networks
25. Railway Radiocommunication System between Train and Trackside (RSTT) with respect to WRC-19 Agenda Item 1.11.

 **Objectives**

During AWG-21, the Working Groups of the AWG will review the work progress on the above mentioned work items based on the input contributions from members and update of relevant ITU-R studies on the work items. AWG-21 will develop outcomes based on decision taken at the meeting.

Further, AWG-21 will also discuss the way forward and action plan for APT Frequency Information System (AFIS), the implementation of the Strategic Plan of the APT for 2015-2017 and draft element to be included in the draft Strategic Plan of the APT for 2018-2020. AWG-21 will also update the Workplan of AWG.

**Expected outcomes**

AWG-21 is expected to develop the following tangible outcomes:

* Draft APT Recommendations
* APT Reports
* Liaison Statements to other APT Work Programmes, ITU-R Study Groups and external organizations, if necessary
* Survey questionnaires on the work items, if necessary
* Consider new work items for study.

**Arrangement/Activity (if necessary)**

The AWG-21 will be held for 5 working days. The Working Groups and respective Sub-Working Groups and Task Groups will also meet during the 5 working days of AWG-21 and report to the Plenary of AWG-21. Information Session for APT Frequency Information System (AFIS) would be held during AWG-21.

**Timing and location**

AWG-21 will be held from 3 to 7 April 2017 in Bangkok, Thailand.

**Contact persons**

Mr. Forhadul Parvez, Project Coordinator (Radiocommunication),

Email: parvez@apt.int, aptawg@apt.int

**Tentative Agenda or Draft Programme**

Tentative agenda is attached in Annex A.

**Additional info and annexes (if available)**

Information for Participants will be available at APT Website in due course.

**Annex A**

**Provisional Agenda**

1. Opening
2. Adoption of Agenda
3. Summary Record of AWG-20

1. Allocation of the Documents

1. Outcomes of the 40th Session of APT Management Committee of APT relevant to AWG
2. Implementation Status of the Strategic Plan of APT for 2015 – 2017
3. Objectives and expected outcomes of the Working Groups during AWG-21
4. Consideration of the documents allocated to the Plenary
5. Working Groups/Sub-Working Groups/Task Groups Meetings
6. Consideration of the report of the Working Groups
7. Consideration and approval of the output documents
8. Date and venue of AWG-22
9. Any other matters
10. Closing