



Activities of the APT on Radiocommunication and Spectrum Management

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Introduction:

- ▶ Asia-Pacific Telecommunity is an intergovernmental organization established by UNESCAP and ITU in 1979
- ▶ Only intergovernmental telecommunication organization established by an international treaty
- ▶ As stipulated in the Constitution, the objective of the Telecommunity is to foster the development of telecommunication services and information infrastructure throughout the region with a particular focus on the expansion thereof in less developed areas

- ▶ APT not only works with the governments but also work in conjunction with telecom service providers, manufacturers of communications equipment, and research and development organizations active in the field of communication, information and innovation technologies
- ▶ Currently, the APT has a strength of 38 Members, 4 Associate Members and 134 Affiliate Members
- ▶ Through its various programmes and activities, the APT has made a significant contribution to the development and growth in the ICT sector.



APT WORK PROGRAMMES

- ▶ Activities of the APT is conducted by the high level commitments and declaration by APT Members
- ▶ The Brunei Darussalam Statement adopted by the APT Ministerial Meeting identified six priority areas:
 - ▶ Conducive Policies for Sustainable Growth of ICT and Smart Digital Economy
 - ▶ Safe and Secure Society through ICT
 - ▶ Trust and Confidence in ICT
 - ▶ Sustainable ICT Ecosystem for Innovation
 - ▶ Capacity Building and Institutional Development
 - ▶ Fostering Regional Cooperation for ICT Development

The Brunei Darussalam Statement - Key Policies in the Area of Radio Spectrum

- ▶ Key policies in the area of radio spectrum that are identified by the Ministers in order to stimulate innovation and creativity with appropriate level of regulatory mechanisms:
 - ▶ Promote affordable broadband access
 - ▶ **Promote the harmonization of spectrum across the Asia-Pacific region** including new frequency spectrum such as the 700MHz band to provide affordable broadband services
 - ▶ Promote **the deployment of wireless broadband in low frequency bands** currently allotted to 2G mobile system in a harmonized manner
 - ▶ **Improve spectrum efficiency by use of shared spectrum access including dynamic spectrum access**, for further regional and international harmonization in order to support flexibility for expansion of broadband services in Asia-Pacific
 - ▶ As the only inter-governmental telecommunication organization, APT needs to take leading role in promoting various development agenda including **regional frequency spectrum coordination**

APT WORK PROGRAMMES

- ▶ The Strategic Plan of the APT for 2015-2017 identified 8 work items as Work Programmes:
 - ▶ Policy and Regulations
 - ▶ ICT Development
 - ▶ Disaster Management
 - ▶ Cyber-Security
 - ▶ Radiocommunication
 - ▶ Standardization
 - ▶ Capacity Building
 - ▶ Regional Cooperation for ICT Development

Strategic Plan of the APT for 2018-2020

- ▶ Adopted by the 14th Session of the General Assembly of the APT held from 15 to 17 November 2017 in Bangkok Thailand
- ▶ **Five pillars** which reflect the priority areas established in the Brunei Darussalam Statement
 - ▶ **Connectivity:** Developing the digital Infrastructure;
 - ▶ **Innovation:** Enabling conducive environments and harnessing the benefits of new technologies;
 - ▶ **Trust:** Promoting security and resilience through ICT;
 - ▶ **Capacity Building:** Promoting inclusiveness and enhancing expertise; and
 - ▶ **Partnership:** Solidifying strategic cooperation with stakeholders.

Radiocommunication in the new Strategic Plan

- ▶ Comes under two pillars: Connectivity and Innovation
- ▶ Objective *a.2: To improve practices in managing scarce resources for delivering connectivity*
- ▶ Objective b.1: To foster the development and adoption of the new ICTs

Objective *a.2: To improve practices in managing scarce resources for delivering connectivity*

- ▶ *a.2.1* Assist members in ensuring adequate spectrum is available to support deployment of wireless applications and leverage frequencies made available as a result of the digital switch-over and promote additional spectrum available for 4G (IMT-Advanced) and early allocation of harmonized spectrum bands for 5G (IMT-2020);
- ▶ *a.2.2* Assist members in development/update of colocation and infrastructure/spectrum sharing policies/regulations and innovative business models that support efficient and cost-effective deployment of digital infrastructure;
- ▶ *a.2.3* Provide support to members in undertaking spectrum management assessment, developing master plans and implementing action plans for further development of spectrum management infrastructure, procedures and tools;
- ▶ *a.2.4* Encourage close collaboration among members in implementing spectrum management practices, including harmonization, in keeping with global and regional best practices to promote the efficient utilization of spectrum for innovative usage and trials to further encourage innovation and competition; and
- ▶ *a.2.5* Assists members in their digital switch-over migration plans and processes, including the recovery of spectrum.

Objective b.1: To foster the development and adoption of the new ICTs

- ▶ *b.1.1* Provide a platform for discussing and sharing new and emerging technologies to support the growth of the digital economy;
- ▶ *b.1.2* Support members to develop and deploy new and emerging radiocommunication technologies and services, including IMT-2020;
- ▶ *b.1.3* Enhance regional cooperation in the development and implementation of harmonized standards for innovative telecommunication/ICT applications and services; and
- ▶ *b.1.4* Assist members to develop and implement new and emerging telecommunications/ICTs including but not limited to the areas of standards, enabling policies and regulations, deployment and best practices.

Work Programmes Related to Radiocommunication

- ▶ APT Conference Preparatory Group for WRCs (APG):
develop APT Common Proposals for WRCs
- ▶ APT Wireless Group (AWG)

APT Wireless Group (AWG)

- ▶ Principle objectives of AWG are:
 - ▶ To facilitate regional harmonization of spectrum usage
 - ▶ To assist and support APT Members in using the radio frequency spectrum effectively
 - ▶ To promote the introduction and development of new radiocommunication technologies and applications in the Asia-Pacific region and to propose cost effective implementation solutions
 - ▶ To promote interests of APT Members in related international and regional organizations on radiocommunication matters, as appropriate

AWG Structure:

Working Group on Spectrum Aspects (WG SPEC)	Working Group on Technology Aspects (WG TECH)	Working Group on Services and Applications (WG S&A)
Sub Working Group on Spectrum Arrangement and Harmonization (Sub-WG SA&H)	Sub Working Group on IMT (Sub-WG IMT)	Task Group on Modern Satellite Applications (TG MSA)
	Task Group on CRS and SDR (TG CRS&SDR)	Task Group on Aeronautical and Maritime (TG A&M)
Sub Working Group on Sharing (Sub-WG Sharing)	Task Group on Fixed Wireless Systems (TG FWS)	Task Group on PPDR (TG PPDR)
	Task Group on Short Range Devices (TG SRD)	Task Group on Railway Radiocommunications (TG RR)
Sub Working Group on Spectrum Monitoring (Sub-WG SM)	Task Group on Intelligent Transportation Systems (TG ITS)	
	Task Group on Wireless Power Transmission (TG WPT)	

AWG Work Plan 2017

- ▶ Two AWG meetings are held every year
- ▶ Updated AWG Work Plan



Microsoft Word
Document

- ▶ AWG carries out numerous surveys on frequency usage for various radiocommunication services

AWG Outcomes

- ▶ AWG is developing a good number of APT Reports and Recommendations
- ▶ APT700 Band plan was developed by AWG
- ▶ AWG outcomes are available at:

<http://www.apr.int/AWG-RECS-REPS>

Participating in AWG Activities

- ▶ AWG activities are open for all APT membership
- ▶ AWG meetings are attended by nearly 200 delegates
- ▶ Governments and industry are participating and actively collaborating in the work of AWG since
- ▶ Governments, regulators and industry from Asia-Pacific are also encouraged to participate at the work of AWG
- ▶ The next AWG meeting (AWG-23) will be held from 9 to 13 April 2018 in socialist Republic of Vietnam



Thank You

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