African Telecommunications Union

ATU Preparation Strategy
for
2019 World Radiocommunication Conference (WRC-19)

ATU General Secretariat

September 2016

Contents

1. Introduction

The prominent world rule making and decision conferences on matters of the radio spectrum and radiocommunications in general is the World Radiocommunications Conference (WRC) and its associated Radiocommunication Assembly (RA). Due to the increasing value of the radio spectrum and radiocommunications, WRCs have also increasingly become key and effective participation crucial as well.

In the past WRCs, notably WRC-12 and WRC-15, the continent performed remarkably well in promoting and defending its interests in the use of the radio spectrum and radiocommunications in general at the said WRCs. Notwithstanding the foregoing, it remains essential that under the continued coordination of ATU, the continent steps-up its effective participation in the conferences.

As part of its mandate, ATU has developed this strategy to assist itself and its Membership in the preparation for the Radiocommunication conferences and in the implementation of their outcomes as a guideline. The guideline has two elements, namely:
1. *ATU working groups for WRC-19 preparatory and implementation of outcomes of previous WRCs and other studies, and*
2. *Meeting schedule and expected outputs.*

The framework of the working groups, and meeting schedule and expected outputs are outlined below.

2. Working Groups' working relationship with APM
Shown below is the high level working relationship between APM and the working groups. Working group structures are provided in section 3.

Figure 1: Working Group Structure

3. Structure of the Six (06) ATU WRC-19 preparatory working groups

Working Group 1: Land mobile and fixed services (Chapter 1)

Chairman		
Vice-chairman		
Rapporteur	AI 1.11	Railway Radiocommunication Systems (RSS)
Rapporteur	AI 1.12	Intelligent Transport Systems (ITS)
Rapporteur	AI 1.14	High-Altitude Platform Stations (HAPS)
Rapporteur	AI 1.15	Land-mobile and fixed services applications in 275-450 GHz

Working Group 2: Broadband applications in the mobile service (Chapter 2)

Chairman		
Vice-chairman		
Rapporteur	AI 1.13	Additional spectrum identification for International Mobile Telecommunications (IMT)
Rapporteur	AI 1.16	Wireless access systems, including radio local area networks (WAS/RLAN), in frequency bands between 5 150 MHz and 5 925 MHz,
Rapporteur	AI 9.1 (issue 9.1.1)	Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz
Rapporteur	AI 9.1 (issue 9.1.5)	Impacts of referencing Recommendations ITU-R M.1638-1 and ITU-R M.1849-1 in Nos. 5.447F and 5.450A of the Radio Regulations
Rapporteur	AI 9.1 (issue 9.1.8)	Implementation of narrowband and broadband machine-type communication infrastructures from the spectrum perspective

Working Group 3: Satellite services (Chapter 3)

Chairman		
Vice-chairman		
Rapporteur	AI 1.4	Review of Annex 7 to Appendix **30 (Rev.WRC-12)**
Rapporteur	AI 1.5	Earth stations in motion communicating with geostationary space stations infrequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space)
Rapporteur	AI 1.6	Non-GSO FSS satellite systems that may operate in the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space)
Rapporteur	AI 7	Improvements to publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks
Rapporteur	AI 9.1 (issue 9.1.2)	Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz
Rapporteur	AI 9.1 (issue 9.1.3)	New non-geostationary-satellite orbit systems in the 3 700-4 200 MHz, 4 500-4 800 MHz, 5 925-6 425 MHz and 6 725-7 025 MHz frequency bands allocated to the fixed-satellite service
Rapporteur	AI 9.1 (issue 9.1.9)	Spectrum needs and possible allocation of the frequency band 51.4-52.4 GHz to the fixed-satellite service (Earth-to-space)

Working Group 4: Science services (Chapter 4)

Chairman		
Vice-chairman		
Rapporteur	AI 1.2	In-band power limits for earth stations operating in the mobile-satellite service, meteorological-satellite service and Earth exploration-satellite service in the frequency bands 401-403 MHz and 399.9-400.05 MHz
Rapporteur	AI 1.3	Meteorological-satellite service (space-to-Earth) and Earth exploration-satellite service (space-to-Earth) in the frequency band 460-470 MHz
Rapporteur	AI 1.7	Telemetry, tracking and command in the space operation service for non-GSO satellites with short duration missions

Working Group 5: Maritime, aeronautical and amateur services (Chapter 5)

Chairman		
Vice-chairman		
Rapporteur	AI 1.1	Amateur service in 50-54 MHz in Region 1
Rapporteur	AI 1.8	Global Maritime Distress Safety Systems (GMDSS)
Rapporteur	AI 1.9.1	Autonomous maritime radio devices to protect the GMDSS and automatic identifications system (AIS) in 156-162.05 MHz
Rapporteur	AI 1.9.2	New VHF data exchange system (VDES) satellite component, preferably within the frequency bands 156.0125-157.4375 MHz and 160.6125-162.0375 MHz of Appendix 18
Rapporteur	AI 1.10	Global Aeronautical Distress and Safety System (GADSS)
Rapporteur	AI 9.1 (issue 9.1.4)	Stations on board sub-orbital vehicles

Working Group 6: General issues (Chapter 6)

Chairman		
Vice-chairman		
Rapporteur	AI 2	ITU-R Recommendations incorporated by reference in the Radio Regulations
Rapporteur	AI 4	Resolutions and recommendations of previous conferences
Rapporteur	AI 9.1 (issue 9.1.6)	Wireless Power Transmission (WPT) for electric vehicles
Rapporteur	AI 9.1 (issue 9.1.7)	1. Possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. **18.1** 2. Unauthorized operation of earth station terminals
Rapporteur	AI 10	Agenda for the next WRC(s)

4. Framework of the ATU working groups for WRC-19 preparatory, implementation of outcomes of previous WRCs and other studies

1. **Scope:** the scope of working groups shall be twofold:
    1. Studies related to WRC-19 Agenda items,
    2. Studies related to implementation of previous WRCs and other relevant studies under their purview.

2. **Mandate:** the mandate of the working groups is under the following:
    1. Prepare draft ATU common contribution to ITU-R Study Groups;
    2. Draft report briefs on the development of undergoing studies regarding agenda items under its scope including other regional groups views;
    3. Draft recommendations/opinions/views to African Preparatory Meetings for WRC-19 on WRC-19 agenda items under its scope;
    4. The chairman or vice-chairman of working group after consultation with the group members, may share information with other regional groups on agenda items under its scope;
    5. After consultation with working group members and the ATU Secretary General, Working group chairman may request to conduct face to face meeting in order to conduct discussions for agenda items under working group scope;
    6. Working groups may decide to conduct workshops/ studies for issues or subjects that lay under its scope

    The work of the working group(s) shall be subject to ATU WRC-19 Preparatory meetings.

7. **Management team:** Each working group shall have a chair, one-vice chair, and agenda item rapporteurs.

8. **Tenure:** The working groups shall cease to exist immediately after WRC-19.

9. **Working method:** Each shall establish its working method consistent with those practiced by ATU organs.

10. **Work modality:** The working group primary mode of work shall be via electronic means. However, under the consultation and facilitation of ATU Secretary General, they may hold

face-to-face meetings as individual group or in association with other group or groups, as appropriate.

11. **Participation:** All ATU membership and African regional economic communities (including their dully appointed agents e.g. consultants) shall have full participation. African regulator associations, AU and its agencies, UN and its agencies, African institutions for which membership/ownership if drawn from African countries or their public institutions, and other persons dully invited by the ATU Secretary General, may participate in observer (advisory) capacity.

12. **Costs:** All costs associated with participation to the work of the working groups (such as travel, accommodation and subsistence) shall be borne by their respective employers or sponsors or themselves, as appropriate.

5. Terms of Reference of Working Group Chairmen, Vice-Chairmen and Rapporteurs

1. **The Chairman will:**

   1. Work closely with the vice-chairmen and rapporteurs in ensuring that African views are discussed;

   2. Take into account all the work undertaken by vice-chairmen and rapporteurs;

   3. Prepare final proposals for submission to ITU through ATU;

   4. Be the ATU link for all proposal sent to ITU;

   5. Participate in all preparatory meetings and ITU meetings;

   6. Coordinate the agenda items in the chapters assigned;

   7. Consider all appropriate relevant work regarding the chapter;

   8. Take into account the work and outputs of the agenda rapporteurs to review each agenda item;

   9. Study contributions from all the agenda coordinators and note information documents;

   10. Discuss proposal on all agenda items including reasoning arguments for selected criteria/method;

   11. Reflect the results of all the discussions with possible reflection of the other groupings positions;

12. Prepare proposals as appropriate to form African common proposals/positions; and

13. Forward the proposal to the overall coordinator for the final drafting and eventual submission to ITU.

2. **The Vice-Chairman will:**

    1. Assist the chairman in carrying his/her duties;

    2. May act as chairman in the absence of the chairman or on express request of the chairman.

3. **Rapporteurs will:**

    3. Study critically the agenda items and work electronically with all the Member States to get their views on agenda item;

    4. Assess the views of the industry players on the agenda item and see how it affects the view of the Member States;

    5. Assess and document positions of the other regions and critical players and analysis impact;

    6. Put together all the inputs on the agenda and send to Chairman for compilation; and

    7. Work closely with the chairman.

6. Milestones and Schedule of Meetings for WRC-19 Preparatory Working

No.	Strategy	Activities	When	KPI/Output
1	Establish Six (06) ATU WRC-19 Preparatory Working Groups (one each for the 6 chapters of CPM), taking into account expertise of individuals. **Note:** See Annex 1 for the proposed structures of the working groups.	1. ATU GS to propose position allocation of the Chairs, Vice-Chairs and for the Working Groups. 2. APM19-1 to establish the groups based on ATU GS proposals or otherwise, as appropriate.	22 September 2016	Six (06) ATU WRC-19 Preparatory Working Groups established **30 September 2016**
2	Develop and submit ATU common contribution to ITU-R Study Groups, based on drafts developed by the Working Groups, as appropriate.	1. Develop (<u>by way of carrying out technical studies or otherwise</u>) draft ATU common contribution to ITU-R Study Groups. 2. Recommendation to African Preparatory Meetings for WRC-19. **Note:** In developing the above papers, the Working Groups may <u>work online</u> or have face-to-face meetings as individual groups or in association with other group or groups, as appropriate.	• April 2017 • April 2018 • May 2019	1. Draft ATU common contribution to ITU-R Study Groups developed for endorsement consideration by membership, as appropriate. 2. Recommendation paper(s) to African Preparatory Meetings for WRC-19 developed.

Groups

7. African Preparatory Meetings for WRC-19

No.	Meeting	Activities/Main Agenda Items	When	Expected Outcomes
1	1st African Preparatory meeting for WRC-19 (APM19-1)	1. Review WRC-15 preparation/participation. 2. Consider the ITU Work Plan for WRC-19. 3. Consider and approve ATU Strategy/Work Plan for WRC-19. 4. Appoint preparatory group Chairs, Vice-Chairs, and if possible rapporturers as well. 5. Consider preliminary views on the WRC-19 Agenda Items, as appropriate.	19-22 Sep 2016	1. WRC-15 preparation/participation reviewed with key elements noted 2. ITU Work Plan for WRC-19 reviewed and comments made for ITU consideration 3. ATU Strategy/Work Plan for WRC-19 considered and approved 6. Preparatory group Chairs, Vice-Chairs and (Rapporteurs) appointed. 4. Preliminary views on the WRC-19 Agenda Items considered, and where possible preliminary AFCP formulated.
2	2nd African Preparatory meeting for WRC-19 (APM15-2) to be held **before** the 2nd WRC-15 ITU Conference Preparatory Meeting (CPM15-2)	Prepare preliminary AFCPs in as many agenda items as possible.	July 2017	Preliminary AFCPs formulated in as many agenda items as possible.
3	3rd African Regional Preparatory meeting for WRC-19 (APM19-3) to be held **before** the 2nd WRC-19 ITU Conference Preparatory Meeting (CPM19-2)	Prepare preliminary AFCPs in as many agenda items as possible.	July 2018	Preliminary AFCPs in as many agenda items as possible for submission to CPM19-2.
4	4th African Regional Preparatory meeting for WRC-19 (APM19-4) to be held **after** the 2nd WRC-19 ITU Conference Preparatory Meeting (CPM19-2)	1. Review AFCPs taking into account the outcome of CPM15-2 2. Prepare final AFCPs for submission as proposals to WRC-15 3. Review the implementation status of WRC-12 outcomes 4. Consider preliminary views on the WRC-18 Agenda Items.	Aug 2019	AFCPs formulated in as many agenda items as possible for submission to RA-19/WRC-19. [In the case of WRC-15, AFCPs were agreed in 80% of the WRC-15 issues.
5	ATU Caucus Meetings during RA-19 and WRC-19	Progress reports, general assessment of AFCP performance and review of AFCP as required	During WRC-19 as required	Satisfactory AFCP performance reports