



African Telecommunications Union

REPORT

of the

**1st AFRICAN PREPARATORY MEETING FOR
WORLD RADIOCOMMUNICATION CONFERENCE 2019
(APM19-1)**

held from

19 to 22 September 2016

at

Intercontinental Hotel

in

Nairobi – KENYA

September, 2016

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1 INTRODUCTION

The African Telecommunications Union (ATU) in collaboration with the Communications Authority of Kenya (CA) and the support of the Government of Kenya convened the 1st African Preparatory meeting for the World Radiocommunication Conference 2019 (APM19-1) in Nairobi - KENYA from 19 to 22 September 2016. The WRC-19 will be held in Geneva (Switzerland) from 28 October to 22 November 2019 and shall be preceded by the Radiocommunication Assembly from 21 to 25 October 2019.

The objectives of the meeting were to:

1. Consider the key lessons from WRC-15;
2. Consider ATU and ITU preparatory work plans for WRC-19;
3. Appoint the Preparatory Group teams for WRC-19;
4. Consider proposals towards an ATU recommendation for mutual licence and type approval recognition;
5. Consider some key post WRC-15 Issues (channelling plans and PPDR frequency
6. harmonisation), and
7. Consider preliminary views on WRC-19 agenda issues.

The meeting was attended by 190 participants from:

- Twenty seven (27) African countries: *Algeria, Botswana, Burkina Faso, Burundi, Cameroun, Congo, Cote d'Ivoire, Djibouti, Egypt, Ghana, Kenya, Liberia, Malawi, Mozambique, Niger, Nigeria, Rwanda, Senegal, South Africa, South Sudan, Sudan, Tanzania, Tchad, Togo, Uganda, Zambia and Zimbabwe;*
- All four (4) African Regional Economic Communities: *East African Community (EAC) through East African Communications Organization (EACO), Economic Community of Central African States (ECCAS), Economic Community of West African States (ECOWAS) and Southern African Development Community (SADC);*
- African Union Commission (AUC) ;
- Three (3) African telecommunications regulators associations: *Telecommunication Regulators' Association of Central Africa (ARTAC), West Africa Telecommunication Regulators Assembly (WATRA) and Communications Regulator's Association of Southern Africa (CRASA);*
- The International Telecommunications Union (ITU);
- One (1) other regional telecommunications organization: the European Conference of Postal and Telecommunications Administrations (CEPT);
- Nineteen (19) associate members: *Access Partnership, ASECNA, Avanti, Boeing, Ericsson, ESOA, GSMA, Huawei, Inmarsat, Intel Corporation, Intelsat, Iridium, LS Telcom, Motorola, Safaricom, Qualcomm , SES, OneWeb and Vodacom;*
- Two (2) partners organisations: *African Union of Broadcasting (AUB) and ICAO;*
- Three (3) observer organizations: *Commonwealth ITU Group, Nokia and Nigerian Institute of Communication Engineers.*

The list of participants is attached in **Annex 1** (List of participants).

2 OPENING CEREMONY

The opening ceremony noted opening remarks from the following:

- **Mr. Sammy ITEMERE**, representative of the Minister of ICTs of Kenya.
- **Mr. John OMO**, representative of the Director-General of Communications Authority (CA) of Kenya;
- **Ms. Souhila AMAZOUZ**, representative of the Africa Union Commission;
- **Mr. Philippe AUBINEAU**, representative of the Director of ITU Radiocommunication Bureau (BR); and
- **Mr. Abdoukarim SOUMAILA**, ATU Secretary General.

The remarks are annexed to this report as **Annex 2a to 2e**, respectively.

3 APPOINTMENT OF THE BUREAU

The meeting appointed the following bureau:

Chairman	:	Mr. Daniel OBAM	(Kenya)
Vice-Chairman	:	Mr. Augustine NWAULUNE	(Nigeria)
Rapporteurs	:	Mr. Khalilou NIANE	(Senegal)
		Mr. Jonathan PINIFOLO/Mr. Micious MATSITSA	(Malawi)

4 ADOPTION OF AGENDA

The meeting adopted the agenda as provided in **Annex 3**.

5 KEY LESSONS FROM WRC-15

Mr. Daniel OBAM, the WRC-15 ATU Group chairman, made a presentation on the preparations, participation, the WRC-15 conference itself, key outcomes for Africa, and suggested areas for improvement (*see APM19-1 Input DOC 25 - WRC-15 ATU Group Chairman Key Lessons From WRC-15*).

6 CONSIDERATION OF ITU PREPARATORY WORK PLAN FOR WRC-19

Mr. Philippe AUBINEAU, ITU Radiocommunication Bureau Counsellor for ITU-R Study Groups, presented information on the ITU preparations for CPM19-2, RA-19 and WRC-19 (*see APM19-1 Input DOC 21 - ITU BR information on CPM19-2, RA-19, WRC-19 preparations; and APM19-1 Input DOC 21b - ITU BR on IMT HAPS NGSO candidate bands for WRC-19*).

7 NOTING OF SUB-REGIONAL PREPARATORY WORK-PLANS AND KEY ISSUES FOR WRC-19

The meeting noted, with appreciation, the sub-regional preparatory work-plans and key issues for WRC-19 from EACO, ECOWAS and SADC as provided in the respective presentations/documents:

- EACO: see APM19-1 Input DOCs 22 and 23 - EACO strategy for WRC-19 sub-regional preparations
- ECOWAS: see APM19-1 Input DOC 28 - ECOWAS strategy for WRC-19 and key issues
- SADC: see APM19-1 Input DOC 24 - SADC sub-regional WRC-19 strategy and key issues

8 NOTING OF OTHER REGIONS' PREPARATORY WORK PLANS AND KEY ISSUES FOR WRC-19

The meeting noted, with appreciation, CEPT's preparatory work-plans and key issues for WRC-19 as provided in the presentation made by the CPG Chairman, Mr Alexander Kuhn (*see APM19-1 APM19-1 Input DOC 26 - CEPT Presentation on their WRC-19 strategy and key issues*). The CEPT representatives also provided three information documents on the request of the meeting:

- APM19-1 Info DOC 1 - Info AI 1.13 band usage
- APM19-1 Info DOC 2 - Info on Spectrum aspects
- APM19-1 Info DOC 3 - Info on Technical Parameter

The meeting noted the need to synergize and harmonise views with other regional groups with a view to promote early agreements towards global harmonisation of Spectrum for next generation systems.

9 CONSIDERATION OF PROPOSALS FOR MUTUAL LICENCE AND TYPE APPROVAL RECOGNITION

9.1 Draft Recommendation on ESIMs Mutual Licence and Type Approval Framework

The meeting endorsed the principle of the proposed mutual licence and type approval recognition framework as presented by Inmarsat on the recommendation of the ATU Benin workshop of April 2016 (*see APM19-1 Input DOC 17en- Draft ATU Recommendation on ESIMs Mutual Licence and Type Approval Framework*). Consideration that today, sub-regions are best suited to deal with proposal as they have the requisite mandate/protocols for such frameworks, the meeting tasked the ATU SG to pass-on the proposal to the sub-regions for their consideration. Meanwhile, AUC to explore ways in which harmonisation could be done at a continental level via the available tools and mandate of the AUC.

9.2 Mutual recognition of the authorisations for SITA inflight mobile and internet systems

The meeting observed that the SITA input paper is a subset of the ESIM draft recommendation (*APM19-1 Input DOC 18en - Draft Recommendation Wireless Inflight Communications Systems*). Thus, the SITA proposal to be sent to the sub-regions for their consideration alongside the proposal on ESIMs.

10 CONSIDERATION OF SOME KEY POST WRC-15 ISSUES

10.1 Channelling plans for the L-band and 3300-3400MHz bands

10.1.1 The L-band

Channelling plan discussions at ITU-R WP5D level to inform subsequent APM discussions. South Africa, Senegal, Nigeria and any other interested administrations to provide input in the next APM on the best channelling options. The region to take a more proactive role in the work of WP5D on this issue.

The meeting noted that ASMG is flexible on the channelling plan issue of this band.

10.1.2 The 3300-3400MHz

The industry was urged to assist the administrations participating in WP5D to support the best channelling plan suitable for Africa. At this stage, the majority of the countries and industry support TDD in this band.

10.2 PPDR frequency range harmonization in 694-894MHz

There being no consensus on the Motorola's proposal regarding channelling options for broadband PPDR in the 700MHz band, ATU SG was asked to pass the proposal to sub regional groups for their consideration. Studies for WP5A to be closely followed by the relevant working group. All effort to be made to make contributions future WP5A meetings.

The meeting noted that CRASA have agreed in principle to including the 700/800MHz band for broadband PPDR. However, technical details (such as channelling options) are yet to be defined.

11 PRELIMINARY VIEWS ON WRC-19 AGENDA ITEMS

The meeting considered all the WRC-19 agenda items based on the compilations of input contributions from sub-regions, administrations, associate members and relevant interested organizations. The result of this consideration is indicated as APM19-1 outcome as contained in the respective annexes. In warranted cases, key observations were recorded under the respective agenda items.

- **Annex 4a** - Chapter 1 (Land mobile and fixed services; 1.11, 1.12, 1.14, 1.15)
- **Annex 4b** - Chapter 2 (Broadband applications in the mobile service; 1.13, 1.16, 9.1.1; 9.1.5; 9.1.8)
- **Annex 4c** - Chapter 3 (Satellite services; 1.4, 1.5, 1.6, 1.17, 7; 9.1.2; 9.1.3; 9.1.9)
- **Annex 4d** - Chapter 4 (Science services; 1.2; 1.3; 1.7)
- **Annex 4e** - Chapter 5 (Maritime, aeronautical & amateur services; 1.1; 1.8; 1.9.1, 1.9.2, 1.10; 9.1.4)
- **Annex 4f** - Chapter 6 (General issues; 2, 4, 9.1.6, 9.1.7, 10)

In general, the meeting:

1. Noted with appreciation the various information provided to the meeting on some of the agenda items;
2. Tasked the working groups to study the various information relevant to their agenda items with a view to seeing how the information could help in kick-starting their work;
3. Tasked the working groups to liaise and seek facilitation of the ATU SG regarding any data collection the working groups may desire. Working groups to develop the relevant questionnaires in this regard;
4. Urged the working groups to actively participate in the work of WRC-19 preparatory work (in particular the work of ITU-R study groups) and to and take proactive steps in leading the African WRC-19 preparatory work on issues under their scope;
5. Urged the associate members and industry in general to assist the region in the preparatory work by providing the much needed technical advice;
6. Invited countries to actively play their role including adequate participation in the various activities, supporting the working group team members and responding to the questionnaires in good time; and
7. Invited the ATU SG to create mailing lists for the established working groups.

12 CONSIDERATION OF ATU PREPARATORY WORK PLAN FOR WRC-19 AND IMPLEMENTATION OF WRC-15 OUTCOMES

The meeting established the ATU WRC-19 preparatory strategy as provided in **Annex 5**. The strategy provides for Six (06) ATU working groups for WRC-19 preparatory, implementation of outcomes of previous WRCs and other studies, as well as high level work plan. The working groups are directly mapped to the six chapters of the CPM report.

13 APPOINTMENT OF ATU WRC-19 PREPARATORY GROUP TEAMS

The meeting appointed chairmen and vice-chairmen for the said Six (06) ATU working groups as provided in **Annex 6**. The meeting set a deadline of 31 October 2016 for sending-in of nomination of rapporteurs by the sub-regions and/or countries.

14 PRIORITIES FOR AFRICAN COUNTRIES AT WRC-19

The meeting deferred discussion of priorities for African countries at WRC-19 to future meeting as it was felt it was still premature to discuss the matter at this meeting.

15 OTHER BUSINESS

Cameroun: proposed to allocate studies on broadband PPDR channelling harmonization to WG1. The meeting had no objection to the proposal.

Egypt: suggested that APM meeting bureau appointment be considered for the a WRC study cycle. They were invited to liaise with the ATU SG regarding their suggestion.

Uganda: informed the meeting of the candidature of Mr. Patrick MASAMBU (a Ugandan national) to the post of Director-General of the International Telecommunications Satellite Organisation (ITSO), and sought the support for the candidature. The meeting noted the candidature.

Nigeria: requested the support for the Nigeria/South Africa proposal regarding channelling of the 3300-3400MHz band. The countries were invited to consider supporting and signing-up to the proposal. Further, Nigeria called for an urgent training workshop on the use of simulation software used in carrying compatibility studies. They were invited to liaise with the ATU SG on the call.

Senegal: considering the importance of robust studies to prudent spectrum management in Africa, Senegal called for collaboration (via formal MoUs) with academia (universities, research centres, and centres of excellence) and industry.

AUB: requested that they be alerted of any studies being carried out in the UHF band in particular for them to be able to sensitise their members so that they liaise with their administrations in determining future use as required by WRC-15 Resolution 235.

ATU General Secretariat: announced the planned future ATU events (see APM19-1 Info DOC 5 - ATU Planned activities October 2016 to October 2017)

16 DATE AND VENUE OF THE NEXT (PREPARATORY) MEETING (APM19-2)

ATU SG to consult on the suitable dates and venue of APM19-2 and announce accordingly.

17 ADOPTION OF REPORT

This report was adopted at about **12:00 Hours** on Thursday **22 September 2016** as a true record of the proceedings of the meeting subject to editorial improvements only.

18 VOTE OF THANKS

The delegate of Tanzania gave the vote of thanks on behalf of the meeting participants in which he expressed profound gratitude to: (1) The president of the Republic of Kenya His Excellency **UHURU KENYATTA**; (2) The Government of the Republic of Kenya and the Communications Authority of Kenya, and; (3) The People of Kenya, for the great support and hospitality shown by the Republic of Kenya towards ATU and its activities including the meeting. He extolled them all for the excellent goodwill will towards the meeting, which he said, guaranteed the success of the meeting. He also thanked the ATU Secretary General for facilitating the meeting.

19 CLOSING REMARKS

The meeting noted closing remarks from the following officials:

- **Mr. Daniel OBAM**, representative of the Minister of ICTs of Kenya;
- **Mr. Mohamed Haji**, representative of the Director-General of Communications Authority (CA) of Kenya;
- **Ms. Souhila AMAZOUZ**, representative of the African Union Communication;
- **Mr. Philippe AUBINEAU**, representative of the Director of ITU Radiocommunication Bureau (BR) (see **Annex 7 - ITU Radiocommunication Bureau (BR) closing remarks**); and
- **Mr. Abdoukarim SOUMAILA**, ATU Secretary General.

20 LIST OF APPENDICES

Appendix 1: List of Annexes

Appendix 2: List of referenced presentations

Appendix 3: List of Input and Information Documents

20.1 Appendix 1: List of Annexes

1. Annex 1 - List of Participants
2. Annex 2a - Speech by Mr. Abdoukarim SOUMAILA, ATU Secretary General
3. Annex 2b - Speech by Ms. Souhila AMAZOUZ representative of the African Union Communication
4. Annex 2c - Speech by Mr. Philippe AUBINEAU representative of the Director of ITU Radiocommunication Bureau
5. Annex 2d - Speech by Mr. Sammy ITEMERE, representative of the Minister of ICTs of Kenya
6. Annex 3 - Agenda
7. Annex 4a - APM19-1 Inputs/outcomes Chapter 1 Land mobile and fixed services
8. Annex 4b - APM19-1 Inputs/outcomes Chapter 2 Broadband applications in the mobile service
9. Annex 4c - APM19-1 Inputs/outcomes Chapter 3 Satellite services
10. Annex 4d - APM19-1 Inputs/outcomes Chapter 4 Science services
11. Annex 4e - APM19-1 Inputs/outcomes Chapter 5 Maritime, aeronautical and amateur services
12. Annex 4f - APM19-1 Inputs/outcomes Chapter 6 General issues
13. Annex 5 - ATU WRC-19 Preparatory Strategy
14. Annex 6 - Working Group Chairmen and Vice-Chairmen

20.2 Appendix 2: List of referenced documents

1. APM19-1 Input DOC 17en- Draft ATU Recommendation on ESIMs Mutual Licence and Type Approval Framework
2. APM19-1 Input DOC 21 - ITU BR information on CPM19-2, RA-19, WRC-19 preparations
3. APM19-1 Input DOC 21b - ITU BR on IMT_HAPS_NGSO_candidate_bands_for_WRC-19
4. APM19-1 Input DOC 22 - EACO strategy for WRC-19 sub-regional preparations
5. APM19-1 Input DOC 23 - EACO strategy for WRC-15 outcome implementation
6. APM19-1 Input DOC 24 - SADC sub-regional WRC-19 strategy and key issues
7. APM19-1 Input DOC 25 - WRC-15 ATU Group Chairman Key Lessons from WRC-15
8. APM19-1 Input DOC 26 - CEPT Presentation on thier WRC-19 strategy and key issues
9. APM19-1 Input DOC 28 - ECOWAS strategy for WRC-19 and key issues

20.3 Appendix 2: List of info documents

1. APM19-1 Info DOC 1 - Info AI 1.13 band usage by CPG
2. APM19-1 Info DOC 2 - Info in Spectrum aspects by CPG
3. APM19-1 Info DOC 3 - Info in Technical Parameter by CPG
4. APM19-1 Info DOC 4 - Brief Profile of Mr Masambu the African Candidate for ITSO DG
5. APM19-1 Info DOC 5 - ATU Planned activities October 2016 to October 2017

20.4 Appendix 3: List of Input and Information Documents

1. APM19-1 Input DOC 1 - Cameroun propositions sur le plan de travail de l'UAT
2. APM19-1 Input DOC 2 - ESOA comments on draft ATU Recommendation on ESIMs
3. APM19-1 Input DOC 3 - Cameroun proposals on various WRC-19 agenda items
4. APM19-1 Input DOC 4 - Iridium views on AI 1.8 (GMDSS), AI 1.10 (GADSS) and AI 1.5 (ESIMs)
5. APM19-1 Input DOC 5 - Facebook and Google information on AI 1.14 (HAPS)
6. APM19-1 Input DOC 6 - ESOA proposal on AI 1.13 (IMT)
7. APM19-1 Input DOC 7 - GSMA summary proposal on AI 1.13 (IMT)
8. APM19-1 Input DOC 7bis - GSMA detailed proposal on AI 1.13 (IMT)
9. APM19-1 Input DOC 8 - Motorola proposal on implementation of Resolution 646(PPDR)
10. APM19-1 Input DOC 9 - Huawei proposal on Channelling of 3300-3400MHz band
11. APM19-1 Input DOC 10 - GSA proposals on AI 1.13 (IMT), Channelling plans for Lband And 3300-3400MHz, and ATU WRC-19 Workplan
12. APM19-1 Input DOC 11 - Avanti proposal on AI 1.13 (IMT)
13. APM19-1 Input DOC 12en - Boeing information on AI 1.6 (non-GSO FSS)
14. APM19-1 Input DOC 12fr - Boeing information on AI 1.6 (non-GSO FSS)
15. APM19-1 Input DOC 13en - Boeing information on AI 9.1.3 (non-geostationary-satellite orbit systems)
16. APM19-1 Input DOC 13fr - Boeing information on AI 9.1.3 (non-geostationary-satellite orbit systems)
17. APM19-1 Input DOC 14 - IARU information on AI 1.1 (Amatuer in 50MHz band)
18. APM19-1 Input DOC 15 - Aggregated Response to Questionnaire on bands and issues for some key WRC-19 agenda items
19. APM19-1 Input DOC 16en - Draft ATU WRC-19 Strategy
20. APM19-1 Input DOC 16fr - Projet ATU Stratégie CMR- 19

21. APM19-1 Input DOC 17en- Draft ATU Recommendation on ESIMs Harmonized Licensing Framework
 22. APM19-1 Input DOC 17fr - Projet de recommandation d'harmonisation du cadre d'octroi des licences des stations terriennes mobiles (ESIM)
 23. APM19-1 Input DOC 18en - Request from SITA regarding mutual recognition of the authorisations for SITA inflight mobile and internet systems
 24. APM19-1 Input DOC 18fr - Demande de SITA en ce qui concerne la reconnaissance mutuelle des autorisations de SITA mobiles en vol et les systèmes Internet
 25. APM19-1 Input DOC 19 - Facebook informational update on thier Aquila Program relating to AI 1.14 (HAPS)
 26. APM19-1 Input DOC 20 - Orange proposal on AI 1.13 (IMT)
 27. APM19-1 Input DOC 21 - ITU BR information on CPM19-2, RA-19, WRC-19 preparations
 28. APM19-1 Input DOC 22 - EACO strategy for WRC-19 sub-regional preparations
 29. APM19-1 Input DOC 23 - EACO strategy for WRC-15 outcome implementation
 30. APM19-1 Input DOC 24 - SADC sub-regional WRC-19 strategy and key issues
 31. APM19-1 Input DOC 25 - WRC-15 ATU Group Chairman Key Lessons From WRC-15
 32. APM19-1 Input DOC 26 - CEPT Presentation on thier WRC-19 strategy and key issues
 33. APM19-1 Input DOC 27 - EACO Presentation on their WRC-19 strategy and key issues
 34. APM19-1 Input DOC 28 - ECOWAS strategy for WRC-19 and key issues
 35. APM19-1 Input DOC 29 - Kenya proposal on AI 1.5
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