



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



# ICAO WRC-27 Preparatory Workshop

2

## Agenda item 3.4 Status of African Telecommunication Union (ATU) preparations for WRC-27

Ms Lisa Tele

Head of PMO : ATNS



EUR/MID WRC-27 (World Radiocommunication Conference 2027) Workshop  
(Paris, France, 06-07 October 2025)

# Presentation Overview

---

01

**Background**



03

**ATU Position**



02

**Potential Issues**



04

**Conclusion**



---

# BACKGROUND

## COMPOSITION

The African Telecommunication Union convenes the ATU Preparatory Meetings (**APM**) and Working Group (**WG**) which are responsible for developing the African Common Position (**AfCP**) and briefs for the WRC - 27 and RA - 27.

The objectives of the meetings included the following:

**Noting** of milestones in ATU Radiocommunications sector

**Consideration** of ITU preparatory work plan for WRC-27

**Noting** of Sub-Regions' work plans for WRC-27

**Noting** of Other Regions' preparatory work plans and highlights of key views/positions on WRC-27 agenda items

**Development** of the African preliminary common views/positions on WRC-27 Agenda items based on Recommendations of the ATU WRC-27 Preparatory Working Groups

---

# BACKGROUND

## APM STRUCTURE

Below is the structure of APM BUREAU

Chairman: Mr Mohamed Haji, EACO

Vice Chairman: Mr Karim Hassine, Tunisia

Secretary General: Mr John Omo, Kenya

[sg@atu-uat.org](mailto:sg@atu-uat.org)

# POTENTIAL ISSUES

## REPRESENTATION

### MEMBERS OF THE AFRICAN TELECOMMUNICATION UNION

The ATU is composed of 44 African member states,



with four African Regional Economic Communities.

1. EACO-East African  
Communications  
Organisation

2. ECCAS-Economic  
Community of Central  
African States

3. ECOWAS-Economic  
Community of West  
African States

4. SADC- Southern African  
Development Community

# POTENTIAL ISSUES

## WRC-27 ATU WORKING GROUP STRUCTURE

CHAPTER	TITLE	AGENDA ITEMS	WORKING GROUP
<b>Chapter 1</b>	Fixed-satellite and Broadcasting-satellite issues	1.1, <b>1.2</b> , 1.3, 1.4, <b>1.5</b> , 1.6 and 7	Working Group 1
<b>Chapter 2</b>	Fixed, Mobile and Radiolocation issues	<b>1.7</b> , 1.8, 1.9, 1.10	Working Group 2
<b>Chapter 3</b>	Mobile-satellite issues	1.11, 1.12, 1.13, 1.14	Working Group 3
<b>Chapter 4</b>	Science issues	1.15, <b>1.16</b> , 1.17, 1.18, <b>1.19</b>	Working Group 4
<b>Chapter 5</b>	General issues	4, 8, 9, 10	Working Group 5



## 1.2

### Fixed-satellite and Broadcasting- satellite issues

Agenda Item : 1.2

*Possible revisions of sharing conditions in the frequency band 13.75-14 GHz*

#### **APM27-2 African PRELIMINARY Common Position**

*Support, based on preliminary results of studies and regional usage, the review and possible relaxation of the current regulatory limits and sharing conditions 13.75-14 GHz as set out in RR no.5.502 and 5.503 with the aim to enable efficient usage of the band 13.75-14 GHz by allowing deployment of cost-effective satellite earth station with small antennas while ensuring the protection of the services mentioned in RR n°5.502 and 5.503.*



## 1.5 Fixed-satellite and Broadcasting- satellite issues

### Agenda Item : 1.5

*Possible regulatory measures and the possibility of implementing these measures to limit the unauthorized operation of non-geostationary earth stations in the fixed-satellite service and the mobile-satellite service, and to consider the associated issues related to the service area of non-geostationary systems in the fixed-satellite service and mobile service-satellite*

### **APM27-2 African PRELIMINARY Common Position**

**Support** the studies on the development of regulatory measures that are practical, technologically neutral and feasible to limit unauthorized transmissions from (i.e. Earth to Space direction) the territory of administrations that have not given the necessary authorization for the operation. These measures should enable the administrations on whose territory earth stations operating with non-GSO systems are located to have information on their existence and the means to be able to stop unauthorized transmissions; provided such measures do not result in additional constraints and additional burden on the part of developing countries.

## 1.7

### Fixed- Mobile and Radiolocation issues

#### Agenda Item : 1.7

Use of IMT in the frequency bands 4 400-4 800 MHz *and* 125-8 400 MHz

#### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Support** the studies under this agenda item with emphasis on:

Ensure the protection of existing services, particularly Earth exploration-satellite systems (EESS) in the 8,025–8,400 MHz band, Fixed Services in the 8,025 – 8,400 MHz and 14.8 - 15.35 GHz bands and Radio Altimeters in the 4,200–4,400 MHz band as well as the worldwide AP30B Plan in 4,500 - 4,800 MHz, without imposing any constraints or limitations on their operation.

## 1.9

### Fixed- Mobile and Radiolocation issues

#### Agenda Item : 1.9

Update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization

#### ***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Consider** possible updates to Appendix 26 of the RR provided that:

Compatibility and protection of incumbent services as well as the services operating in adjacent frequency bands are ensured;

Any modification to Appendix 26 of the Radio Regulations must be contingent upon the outcomes of compatibility and sharing studies, and must ensure protection criteria for radiocommunication services with primary allocations in the band or in adjacent frequency bands

## 1.11

### Mobile Satellite issues

#### Agenda Item : 1.11

*Regulatory provisions, for space-to-space links among non-geostationary and geostationary satellites in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz*

#### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Support** to follow the ongoing studies under this agenda item concerning potential new allocations to the Mobile-Satellite Service (MSS) (space-to-space) and the inter-satellite service with emphasis on the following points:

Ensuring the protection of incumbent services/systems in the frequency bands under study, as well as in adjacent frequency bands, particularly the Mobile-Satellite Service (MSS), fixed, and mobile services;

Any possible new allocation to the MSS (space-to-space) or to inter-satellite service should not impose constraints or limitations on existing services/systems.

## 1.12

### Mobile Satellite issues

#### Agenda Item : 1.12

*Possible allocations to the mobile-satellite service and possible regulatory actions in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5-1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space) and 2 010-2 025 MHz (space-to-Earth)*

#### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Support** to follow and contribute to the ongoing studies aimed at establishing a global allocation for the Mobile-Satellite Service (MSS) in one or more of the frequency bands under consideration, to support the connectivity requirements of low-data-rate (LDR) non-geostationary satellite orbit (non-GSO) communication systems, with emphasis on the following aspects:

Establishing a clear definition and technical characterization of low-data-rate (LDR) systems, including the identification of their typical applications, operational requirements, and relevant use cases.

Determining spectrum requirements based on realistic and practical usage scenarios, in order to promote the efficient and rational utilization of the frequency spectrum.

## 1.13

### Mobile Satellite issues

#### Agenda Item : 1.13

*Possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage,*

#### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Consider** adopting an approach that seeks to support enabling the envisaged service, subject to the following key conditions where the envisaged service must:

Operate as an application under the Mobile Satellite Service (MSS) on a secondary basis with respect to mobile services in the applicable frequency bands (typically IMT bands), recognising the need to protect the primary status of the existing Mobile Service allocations identified for IMT. The protection of existing services, particularly IMT must be ensured, and the incoming MSS should not restrict nor adversely affect the continued operation and/or expansion of existing IMT (operations of IMT in both TDD and FDD must be protected);

## 1.15

### Science issues

#### Agenda Item : 1.15

Consider studies on frequency-related matters, including possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface.

#### ***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Actively follow** the ongoing studies and support the allocation of SRS (space-to-space) for lunar communications to the identified frequency bands while ensuring the protection of the incumbent services particularly the IMT services, Metrological services, and Fixed links operating in lower 7GHz (7110-7425 MHz), Upper 8 GHz (8275-8500 MHz), 26 GHz (24.5-26.5 GHz) and 28 GHz (27.5-29.5 GHz)



# 1.16

## Science issues

### Agenda Item : 1.16

Consider studies on frequency-related matters, including possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface.

### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Support** the ongoing ITU-R studies on AI 1.16 to ensure studies consider the specific needs of African Administrations.

**Support** the protection of RAS, in studies under *resolve 1) and* support technical studies under *resolve 2)* of Resolution **681 (WRC-23)**.

**Consider establishing** a framework, without regulatory and technical constraints on non-GSO systems, to support advanced radio astronomy undertaken in the RQZs in regard to resolve 3 to 6 of Resolution **681 (WRC-23)**.

## 1.17

### Science issues

#### Agenda Item : 1.17

Consider regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU Radiocommunication Sector studies

#### ***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Support** following up the ongoing studies in accordance with Resolution 682 (WRC-23) in the frequency bands 27.5 – 28.0 MHz, 29.7 – 30.2 MHz, 32.2 – 32.6 MHz, 37.5 – 38.325 MHz, 73.0 – 74.6 MHz, 608 - 614 MHz while ensuring the following conditions:

Any potential allocation for the MetAids (space weather) in these frequency bands will not claim protection nor impose constraints on incumbent services.

Evaluate whether there is suitability of the 600 MHz band for space weather sensors, considering whether it can support their operational requirements

# 1.18

## Science issues

### Agenda Item : 1.18

*Consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services*

### **APM27-2 AFRICAN PRELIMINARY COMMON POSITION**

**Support the continuation of ITU-R studies** under Agenda Item 1.18 to ensure evidence-based regulatory decisions.

**Advocate for sufficient protection of EESS (passive) and RAS**, which are critical for climate monitoring, scientific research, and sustainable development.

**Promote equitable access** to high-frequency spectrum by balancing protection of passive services with enabling innovation in active service applications (e.g., broadband, satellite).

operational requirements and take into consideration its intensive use by incumbent services in Africa.

## 1.19

### Science issues

#### Agenda Item : 1.19

Consider possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz

#### ***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Support** studies on the potential allocation of the 4 200–4 400 MHz and 8 400–8 500 MHz bands to the EESS (passive) without imposing any constraints on incumbent services in these frequency bands and in adjacent bands, in line with Resolution 674 (WRC-23). Any potential future allocation to the EESS (passive) in the concerned bands should be made on the basis that it shall not claim protection from existing services, nor cause harmful interference to them.

## 8

## General issues

## Agenda Item : 8

Consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required

***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Support** as matter of principle, actions that promote Global or Regional harmonization of the use of radio spectrum including and in this particular case, removing country names from footnotes or adding names to footnotes where such actions foster harmonization, taking into consideration Resolution 26

## 10

## General issues

## Agenda Item : 10

Recommend to the ITU Council items for inclusion in the agenda for the next world radiocommunication conference, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the ITU Convention

***APM27-2 AFRICAN PRELIMINARY COMMON POSITION***

**Support**, as a matter of principle, the topics/subjects which will allow for rational and efficient use of the radio frequency spectrum and consistent with ATU's long-term objectives for spectrum management to be included in WRC-31 agenda. In addition, ATU should support the consideration of items that are of interest for African Administrations and as much as possible those which can be effectively addressed through WRC-31, and which are likely to be resolved within the available time and resources in accordance with Resolution 804 (Rev

# CONCLUSION

## ATU MEETINGS FOR WRC 27 PREPARATION

1. APM 27-1: 18-22 July 2024, Kenya

2. APM 27-2: 12-15 August 2025, Kenya

3. APM 27-3: 17-21 September 2026,

4. APM 27-4: TBC



---

# Thank You

