

2nd ITU Inter-regional Workshop on WRC-19 Preparation

20-22 November 2018
Geneva, Switzerland

www.itu.int/go/ITU-R/wrc-19-iwsp-18



Organized by:



2nd ITU INTER-REGIONAL WORKSHOP ON WRC-19 PREPARATION (Geneva, 20-22 November 2018)

Roundtable on WRC-19 Agenda items 2, 4, 8, 9.1 (issues 9.1.6, 9.1.7) and 10

*Peter Ngige
Njoroge, CPM-19
Rapporteur for
Chapter 6*



WRC-19 Agenda items & issues in Chapter 6 of draft CPM Report

- **Agenda item 2**
 - **Agenda item 4**
 - **Agenda item 9.1 (issues 9.1.6, 9.1.7)**
 - **Agenda item 10**
- and**
- **Agenda item 8**



Agenda item 2

2 *to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution 28 (Rev.WRC-15), and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in Annex 1 to Resolution 27 (Rev.WRC-12);*

Resolution 28 (Rev.WRC-15): Revision of references to the text of ITU-R Recommendations incorporated by reference in the Radio Regulations

Resolution 27 (Rev.WRC-12): Use of incorporation by reference in the Radio Regulations

In response to Resolutions 28 (Rev.WRC-15) and 27 (Rev.WRC-12), the Director of the Radiocommunication Bureau is preparing a Report to the second session of CPM-19.



Agenda item 4

4 *in accordance with Resolution 95 (Rev.WRC-07), to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;*

Resolution 95 (Rev.WRC-07): General review of the Resolutions and Recommendations of world administrative radio conferences and world radiocommunication conferences

In response to Resolution 95 (Rev.WRC-07), the Director of the Radiocommunication Bureau is preparing a Report to the second session of CPM-19.



AI 8- Review of Country footnotes

WRC-15 resolves...8) to 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, taking into account **Resolution 26 (Rev. WRC-07)**;

- **See provisions in Section I to III of RR Article 5**
- **Res. 26 (Rev. WRC-07) includes principles and conditions of consideration of additions, i.e. only when:**
 - a. **the WRC agenda explicitly includes the frequency band to which the proposed ADD or MOD relates; or**
 - b. **the frequency bands to which the desired ADD or MOD belong are considered during the WRC and it decides to make a change in those bands; or**
 - c. **ADD or MOD is specifically included in the agenda of WRC as a result of the consideration of proposals submitted by one or more interested ADM(s)**

Note: AI 8 is not in the scope of the CPM



Agenda item 9.1

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.1 on the activities of the Radiocommunication Sector since WRC-15;

NOTE: Nine issues have been identified by CPM19-1 under this agenda item.



Issue 9.1.6

Issue 1. in the annex to Resolution 958 (WRC-15)

Urgent studies required in preparation for the 2019 World Radiocommunication Conference:

- 1) Studies concerning **Wireless Power Transmission (WPT) for electric vehicles**:
 - a) to assess the **impact** of WPT for electric vehicles **on radiocommunication services**;
 - b) to study **suitable harmonized frequency ranges** which would minimize the impact on radiocommunication services from WPT for electrical vehicles.

These studies should take into account that the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the Society of Automotive Engineers (SAE) are in the process of approving standards intended for global and regional harmonization of WPT technologies for electric vehicles.



Issue 9.1.6 (2)

- On the basis of input contributions and documents for the meetings of the ITU-R responsible group, the **results identified two frequency ranges for high power WPT-EV and one frequency range for medium-power WPT-EV** as shown below

Categories	Power level	Frequency band	Applications
High power WPT	More than 22 kW	19-25 kHz	Specific heavy-duty electric vehicles (e.g. bus, tram, truck)
	More than 22 kW	55-5x kHz 6x- 65 kHz	Specific heavy-duty electric vehicles (e.g. bus, tram, truck)
Medium power WPT	Upto 22 kW	79-90 kHz	Generic light-duty electric vehicles

- The studies show that the above frequency bands are compatible with Fixed, maritime mobile, radionavigation, maritime radionavigation, and radiolocation, except standard frequency and time signal (SFTS) operating at 60kHz, **provided the WPT-EV unwanted emissions are tightly controlled.**



Issue 9.1.6 (3)

Methodology and guidance to administrations will be included in the ITU-R documents:

- appropriate bands will be specified in a preliminary draft revision of Recommendation ITU-R SM.2110-0;
- limits on unwanted emissions, including harmonics, will be expected to be specified in a new ITU-R Recommendation; and
- results of related studies and examples of existing national implementations throughout the Regions will be provided in Report ITU-R SM.2303-2 and WDPDN Report ITU-R SM.[WPT-SPEC-MNGM].

Consequently, there is no need for activity related to WRC-19 to amend the RR.



Issue 9.1.7

Issue 2. in the Annex to Resolution 958 (WRC-15)

Urgent studies required in preparation for the 2019 World Radiocommunication Conference, studies to examine:

- a) whether there is a need for **possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals** in accordance with No. **18.1**;
- b) the possible methods that will **assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory**, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA-15).



Issue 9.1.7 (2)

- With respect to Issue 2a) in the Annex of Resolution **958 (WRC-15)**, two options have been identified:
 - **Option 1: no change** to the Radio Regulations as current measures are sufficient.
 - **Option 2:** to develop a **new WRC Resolution** to assist administrations with the application of RR No. **18.1**.
- With respect to Issue 2b) in the Annex of Resolution **958 (WRC-15)**, one option has been identified:
 - to **provide necessary guidelines on satellite monitoring capabilities**, along with possible revision and/or further **development of ITU-R Reports or Handbooks** to assist administrations with managing unauthorized operation of earth station terminals deployed within their territory, as a tool to guide their national spectrum management.



AI 10 - Next WRC Agenda

Resolution **810 (WRC-15)**: Preliminary agenda for the 2023 World Radiocommunication Conference

2 on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, and taking account of the results of WRC-19, to consider and take appropriate action in respect of the following items:

2.1 to consider possible **spectrum needs and regulatory actions to support** Global Maritime Distress and Safety System (GMDSS) **modernization** and the **implementation of e-navigation**, in accordance with Resolution **361 (WRC-15)**;

Resolution **361 (WRC-15)**: Consideration of regulatory provisions for modernization of the Global Maritime Distress and Safety System and related to the implementation of e-navigation



AI 10 - Next WRC Agenda (2)

2.2 to conduct, and complete in time for WRC-23, studies for a possible **new allocation** to the Earth exploration-satellite (active) service **for spaceborne radar sounders** within the range of frequencies **around 45 MHz**, taking into account the protection of incumbent services, in accordance with Resolution **656 (WRC-15)**;

Resolution **656 (WRC-15)**: Possible allocation to the Earth exploration-satellite service (active) for spaceborne radar sounders in the range of frequencies around 45 MHz

2.3 in accordance with Resolution **657 (WRC-15)**, to review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for **space weather sensors**, with a view to providing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;

Resolution **657 (WRC-15)**: Spectrum needs and protection of space weather sensors



AI 10 - Next WRC Agenda (3)

2.4 study of spectrum needs and possible **new allocations to the fixed-satellite service** in the frequency band **37.5-39.5 GHz** (Earth-to-space), in accordance with Resolution **161 (WRC-15)**;

Resolution **161 (WRC-15)**: Studies relating to spectrum needs and possible allocation of the frequency band 37.5-39.5 GHz to the fixed-satellite service

2.5 to **review the spectrum use and spectrum needs** of existing services **in the frequency band 470-960 MHz in Region 1** and **consider possible regulatory actions in the frequency band 470-694 MHz in Region 1** on the basis of the review in accordance with Resolution **235 (WRC-15)**;

Resolution **235 (WRC-15)**: Review of the spectrum use of the frequency band 470-960 MHz in Region 1



AI 10 - Next WRC Agenda (4)

- **Principles** for establishing **WRC agendas** in **Res. 810** (Rev WCR-15) includes also a **Template for submission** of proposals for agenda items
- **Contributions on AI 10 to CPM19-2** may be included in an **Annex to the CPM Report for information only** (Res. ITU-R 2-7)