



Radiocommunication Bureau (BR)

Administrative Circular
CA/270

26 January 2024

To Administrations of Member States of the ITU, and Radiocommunication Sector Members

Subject: **Results of the first session of the Conference Preparatory Meeting for WRC-27 (CPM27-1)**

Introduction

The World Radiocommunication Conference (Dubai, 2023) decided in its Resolutions **813 (WRC-23)** and **814 (WRC-23)** to recommend to Council the agenda for the World Radiocommunication Conference 2027 (WRC-27) and the preliminary agenda for the World Radiocommunication Conference 2031 (WRC-31). These agendas are contained in Annex 1 and Annex 2 to this Administrative Circular. The list of the provisional numbers for new Resolutions from WRC-23 is provided in Annex 3.

The Radiocommunication Assembly 2023 (RA-23), by its Resolution ITU-R 2-9 (<https://www.itu.int/pub/R-RES-R.2-9-2023>), reconfirmed the Conference Preparatory Meeting (CPM) and updated its working methods. Also, WRC-23 agreed that preparatory studies for WRC-27 are to be carried out by the CPM process.

First session of the Conference Preparatory Meeting for WRC-27 (CPM2-1)

CPM27-1 was held in Dubai on 18-19 December 2023. It organized the preparatory studies for WRC-27 and proposed a structure for its Report to WRC-27. Furthermore, the meeting nominated seven CPM-27 Chapter Rapporteurs and co-Rapporteurs who will assist the CPM-27 Chair in managing the development of the draft Report to WRC-27. All the preparatory work, as agreed by CPM27-1, will be performed within the framework of the foreseen work programme and organization of the ITU-R Study Groups.

The results of CPM27-1 are contained in the following Annexes:

- Annex 1 Resolution **813 (WRC-23)** – Agenda for the 2027 World Radiocommunication Conference
- Annex 2 Resolution **814 (WRC-23)** – Preliminary agenda for the 2031 World Radiocommunication Conference
- Annex 3 Provisional numbers for new Resolutions from WRC-23
- Annex 4 Chair’s Report on the first session of the Conference Preparatory Meeting for WRC-27
- Annex 5 Table of contents of the draft CPM Report to WRC-27 and Chapter Rapporteurs
- Annex 6 Chapter structure and working procedures for the CPM in accordance with Resolution ITU-R 2-9
- Annex 7 Allocation of ITU-R preparatory work for WRC-27
- Annex 8 Allocation of ITU-R preparatory work for WRC-31
- Annex 9 Outline of the draft CPM Report to WRC-27
- Annex 10 Proposed detailed structure for the draft CPM Report to WRC-27
- Annex 11 Contact information of the CPM-27 Chair, Vice-Chairs and Chapter Rapporteurs

Mario Maniewicz
Director

Distribution:

- Administrations of Member States of ITU
- Radiocommunication Sector Members
- Chairs and Vice-Chairs of Radiocommunication study groups
- Chair and Vice-Chairs of the Radiocommunication Advisory Group
- Chair and Vice-Chairs of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

ANNEX 1*

RESOLUTION 813 (WRC-23)

Agenda for the 2027 world radiocommunication conference

The World Radiocommunication Conference (Dubai, 2023),

considering

- a) that, in accordance with No. 118 of the ITU Convention, the general scope of the agenda for a world radiocommunication conference (WRC) should be established four to six years in advance and that a final agenda shall be established by the ITU Council two years before the conference;
- b) Article 13 of the ITU Constitution, relating to the competence and scheduling of WRCs, and Article 7 of the Convention, relating to their agendas;
- c) the relevant resolutions and recommendations of previous world administrative radio conferences (WARCs) and WRCs,

recognizing

- a) that this conference has identified a number of urgent issues requiring further examination by WRC-27;
- b) that in preparing this agenda, some items proposed by administrations could not be included and have had to be deferred to future conference agendas,

resolves

to recommend to the Council that a WRC be held in 2027 for a period of four weeks, with the following agenda:

1 on the basis of proposals from administrations, taking account of the results of WRC-23 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the frequency bands under consideration, to consider and take appropriate action in respect of the following items:

1.1 to consider the technical and operational conditions for the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with space stations in the fixed-satellite service and develop regulatory measures, as appropriate, to facilitate the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with geostationary space stations and non-geostationary space stations in the fixed-satellite service, in accordance with Resolution **176 (Rev.WRC-23)**;

* The text of the resolution included in this Annex has been copied from the WRC-23 provisional Final Acts. The COM4 and COM6 numbers of the new WRC-23 resolutions have been replaced by the provisional resolution numbers provided in Annex 3 to this Administrative Circular.

- 1.2 to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution **129 (WRC-23)**;
- 1.3 to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution **130 (WRC-23)**;
- 1.4 to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution **726 (WRC-23)**;
- 1.5 to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution **14 (WRC-23)**;
- 1.6 to consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands, in accordance with Resolution **131 (WRC-23)**;
- 1.7 to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution **256 (WRC-23)**;
- 1.8 to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution **663 (Rev.WRC-23)**;
- 1.9 to consider appropriate regulatory actions to update Appendix **26** to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution **411 (WRC-23)**;
- 1.10 to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article **21** of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution **775 (Rev.WRC-23)**;
- 1.11 to consider the technical and operational issues, and 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 and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution **249 (Rev.WRC-23)**;
- 1.12 to consider, based on the results of studies, 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) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems, in accordance with Resolution **252 (WRC-23)**;

1.13 to consider studies on 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, in accordance with Resolution **253 (WRC-23)**;

1.14 to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution **254 (WRC-23)**;

1.15 to 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, in accordance with Resolution **680 (WRC-23)**;

1.16 to consider studies on the technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in frequency bands allocated to the radio astronomy service on a primary basis globally, from aggregate radio-frequency interference caused by non-geostationary-satellite orbit systems, in accordance with Resolution **681 (WRC-23)**;

1.17 to 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, in accordance with Resolution **682 (WRC-23)**;

1.18 to 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, in accordance with Resolution **712 (WRC-23)**;

1.19 to 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, in accordance with Resolution **674 (WRC-23)**;

2 to examine the revised ITU Radiocommunication Sector Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with the *further resolves* of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in the *resolves* of that Resolution;

3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;

4 in accordance with Resolution **95 (Rev.WRC-19)**, to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the ITU Convention;

6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;

7 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording

procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86 (Rev.WRC-07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

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-23)**;

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

9.1 on the activities of the ITU Radiocommunication Sector since WRC-23¹;

9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations²; and

9.3 on action in response to Resolution **80 (Rev.WRC-07)**;

10 to 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 and Resolution **804 (Rev.WRC-23)**,

further resolves

to activate the Conference Preparatory Meeting (CPM),

invites the ITU Council

to finalize the agenda and arrange for the convening of WRC-27, and to initiate as soon as possible the necessary consultations with Member States,

instructs the Director of the Radiocommunication Bureau

1 to make the necessary arrangements to convene meetings of the CPM and to prepare a report to WRC-27;

2 to submit a draft report on any difficulties or inconsistencies encountered in the application of the Radio Regulations referred in agenda item 9.2 to the second session of the CPM and to submit the final report at least five months before the next WRC,

instructs the Secretary-General

to communicate this Resolution to international and regional organizations concerned.

¹ This WRC's standing agenda sub-item is strictly limited to the Report of the Director on ITU-R activities since the last WRC; and any topics outside 1.1-1.19 as listed above shall be strictly avoided, particularly those topics which require any changes/amendments to the Radio Regulations.

² This WRC's standing agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

ANNEX 2**

RESOLUTION 814 (WRC-23)

Preliminary agenda for the 2031 world radiocommunication conference*

The World Radiocommunication Conference (Dubai, 2023),

considering

- a) that, in accordance with No. 118 of the ITU Convention, the general scope of the agenda for WRC-31 should be established four to six years in advance;
- b) Article 13 of the ITU Constitution, relating to the competence and scheduling of world radiocommunication conferences (WRCs), and Article 7 of the Convention, relating to their agendas;
- c) the relevant resolutions and recommendations of previous world administrative radio conferences (WARCs) and WRCs,

resolves to give the view

that the following items should be included in the preliminary agenda for WRC-31:

- 1 to take appropriate action in respect of those urgent issues that were specifically requested by WRC-27;
- 2 on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, and taking account of the results of WRC-27, to consider and take appropriate action in respect of the following items:
 - 2.1 to consider potential new allocations to the fixed, mobile, radiolocation, amateur, amateur-satellite, radio astronomy, Earth exploration-satellite (passive and active) and space research (passive) services in the frequency range 275-325 GHz in the Table of Frequency Allocations of the Radio Regulations, with the consequential update of Nos. **5.149**, **5.340**, **5.564A** and **5.565**, in accordance with Resolution **721 (WRC-23)**;
 - 2.2 [to consider the possible [frequency bands] for [non-beam and beam] wireless power transmission to avoid harmful interference to the radiocommunication services caused by wireless power transmission, in accordance with Resolution **910 (WRC-23)**];
 - 2.3 to consider the use of aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service (Earth-to-space) in the frequency band 12.75-13.25 GHz, in accordance with Resolution **133 (WRC-23)**;
 - 2.4 to consider, based on the results of ITU Radiocommunication Sector studies, support for inter-satellite service allocations in the frequency bands 3 700-4 200 MHz and 5 925-6 425 MHz, and associated regulatory provisions, to enable links between non-geostationary orbit satellites and geostationary orbit satellites, in accordance with Resolution **683 (WRC-23)**;

** The text of the resolution included in this Annex has been copied from the WRC-23 provisional Final Acts. The COM6 numbers of the new WRC-23 resolutions have been replaced by the provisional resolution numbers provided in Annex 3 to this Administrative Circular.

* For further consideration at WRC-27, given the divergent views regarding the frequency bands to be studied and the means to ensure the full protection of all incumbent services concerned.

2.5 to consider a possible primary allocation in the frequency bands [694-960 MHz, or parts thereof, in Region 1], 890-942 MHz, or parts thereof, in Region 2, and [3 400-3 700 MHz, or parts thereof, in Region 3] to the aeronautical mobile service for the use of International Mobile Telecommunications (IMT) user equipment in terrestrial IMT networks by non-safety applications, in accordance with Resolution **251 (Rev.WRC-23)**;

2.6 to consider the identification of the frequency bands [102-109.5 GHz, 151.5-164 GHz, 167-174.8 GHz, 209-226 GHz and 252-275 GHz] for International Mobile Telecommunications, in accordance with Resolution **255 (WRC-23)**;

2.7 to consider improving the utilization of VHF maritime radiocommunication, in accordance with Resolution **363 (Rev.WRC-23)**;

2.8 to consider improving the utilization and channelization of maritime radiocommunication in the MF and HF bands, including potential revisions of Article **52** and Appendix **17**, in accordance with Resolution **366 (WRC-23)**;

2.9 to consider possible allocations to the radionavigation-satellite service (space-to-Earth) in the frequency bands [5 030-5 150 MHz and 5 150-5 250 MHz] or parts thereof, in accordance with Resolution **684 (WRC-23)**;

2.10 to consider a possible new primary allocation to the Earth exploration-satellite service (Earth-to-space) in the frequency band 22.55-23.15 GHz, in accordance with Resolution **664 (Rev.WRC-23)**;

2.11 to consider an upgrade of the secondary allocation to the Earth exploration-satellite service (space-to-Earth) in the frequency band [37.5-40.5 GHz] or possible new worldwide frequency allocations on a primary basis to the Earth exploration-satellite service (space-to-Earth) in certain frequency bands within the frequency range [40.5-52.4 GHz], in accordance with Resolution **685 (WRC-23)**;

2.12 to consider possible new allocations to the Earth exploration-satellite service (active) in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz] on a secondary basis, in accordance with Resolution **686 (WRC-23)**;

2.13 to consider studies on coexistence between spaceborne synthetic aperture radars operating in the Earth exploration-satellite service (active) and the radiodetermination service in the frequency band 9 200-10 400 MHz, with possible actions as appropriate, in accordance with Resolution **722 (WRC-23)**;

2.14 to review spectrum use and needs of applications of broadcasting and mobile services and consider possible regulatory actions in the frequency band 470-694 MHz or parts thereof, in accordance with Resolution **235 (Rev.WRC-23)**;

3 to examine the revised ITU Radiocommunication Sector Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with *further resolves* of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in *resolves* of that Resolution;

4 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;

5 in accordance with Resolution **95 (Rev.WRC-19)**, to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

6 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the ITU Convention;

7 to identify those items requiring urgent action by the Radiocommunication Study Groups;

8 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86 (Rev.WRC-07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

9 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-23)**;

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

10.1 on the activities of the Radiocommunication Sector since WRC-27¹;

10.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations²; and

10.3 on action in response to Resolution **80 (Rev.WRC-07)**;

11 to 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 and Resolution **804 (Rev.WRC-23)**,

invites the ITU Council

to finalize the agenda and arrange for the convening of WRC-31, and to initiate as soon as possible the necessary consultations with Member States,

instructs the Director of the Radiocommunication Bureau

1 to make the necessary arrangements to convene meetings of the Conference Preparatory Meeting (CPM) and to prepare a report to WRC-31;

2 to submit a draft Report on any difficulties or inconsistencies encountered in the application of the Radio Regulations, as referred to in agenda item 10.2, to the second session of the CPM and to submit the final Report at least five months before the next WRC,

instructs the Secretary-General

to communicate this Resolution to international and regional organizations concerned.

¹ This WRC's standing sub-item is strictly limited to the Report of the Director on ITU-R activities since the last WRC; and any topics outside 2.1-2.14 as listed above shall be strictly avoided, particularly those topics which require any changes/amendments to the Radio Regulations.

² This agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

ANNEX 3

Provisional numbers for new Resolutions from WRC-23

Res. No.	Provisional No.	Res. No.	Provisional No.	Res. No.	Provisional No.
COM4/1	364	COM5/7	678	COM6/12	682
COM4/2	406	COM5/8	679	COM6/13	721
COM4/3	213	COM5/9	126	COM6/14	910
COM4/4	218			COM6/15	133
COM4/5	365	COM6/1	129	COM6/16	683
COM4/6	219	COM6/2	411	COM6/17	255
COM4/7	220	COM6/3	130	COM6/18	366
COM4/8	674	COM6/4	680	COM6/19	684
		COM6/5	712	COM6/20	685
COM5/1	675	COM6/6	14	COM6/21	686
COM5/2	121	COM6/7	131	COM6/22	722
COM5/3	123	COM6/8	252	COM6/23	813
COM5/4	8	COM6/9	253	COM6/24	726
COM5/5	676	COM6/10	254	COM6/25	814
COM5/6	677	COM6/11	681	COM6/26	256

ANNEX 4

Chair's Report on the first session of the Conference Preparatory Meeting for WRC-27

(Dubai, United Arab Emirates, 18-19 December 2023)

1 Introduction

The 2027 Conference Preparatory Meeting (CPM-27), chaired by Mr Alexander Kühn (Germany), held its first session (CPM27-1) in Dubai, on 18 and 19 December 2023, at the kind invitation of the Administration of the United Arab Emirates. The meeting was attended by 345 participants representing 76 Member States, 10 Recognized Operating Agencies, 15 Scientific or Industrial Organizations, 1 Financial or Development Institutions, 4 Regional and other International Organizations, 3 Regional Telecommunication Organizations, 1 Intergovernmental Organization Operating Satellite Systems and the ITU staff (see the list in Document [CPM27-1/9\(Rev.2\)](#)).

At the beginning of the CPM27-1 opening plenary on 18 December, the Director of the Radiocommunication Bureau (BR) welcomed all the participants after the recent final days of WRC-23. He congratulated the Chair and highlighted the results and the good spirit of collaboration and cooperation at the Radiocommunication Assembly 2023 (RA-23) and the World Radiocommunication Conference 2023 (WRC-23) which preceded this meeting and set with the revised Resolutions ITU-R 1 and ITU-R 2, as well as with the agenda for WRC-27 and the preliminary agenda for WRC-31, the frame for the start into a new study cycle. He mentioned also modifications to Resolution **804 (Rev.WRC-23)** and outlined his wish that, with the application of this new framework, the membership will collaborate actively and consistently. He also mentioned his confidence in the membership to find always compromises throughout the study cycle. Finally, he informed the meeting on the decision of RA-23 that the Radiocommunication Advisory Group (RAG) should start considerations on a further review of Resolution ITU-R 2, in particular on the length and the scope of the second session of the CPM.

The Chair welcomed all the participants and highlighted in his opening remarks the necessity of common understanding on the agenda items and their studies. He believes that the ITU-R membership will show again its ability to reach conclusions and consensus on the various questions raised by the agenda of WRC-27 and pointed to the role of the CPM to provide information about studies and that the CPM Report is dedicated to those which are not able to follow all considerations within the various Working Parties (WPs) and Study Groups (SGs) of ITU-R. He invited all membership to collaborate on the description of diverging ideas and opinions in the draft CPM texts.

Both also provided their congratulations the new Chairs of the ITU-R SGs, RAG and Coordination Committee for Vocabulary (CCV) on their appointment.

The BR Counsellor for CPM and the representative from the United Arab Emirates presented further practical information about the meeting.

The agenda of the meeting was approved in Document [CPM27-1/ADM/1](#), and a Revision 1 was issued and also approved at the beginning of the second day.

The meeting dealt with 7 input documents and upon their consideration, 4 output documents were approved regarding:

- the allocation of ITU-R preparatory work for WRC-27;
- the allocation of ITU-R preparatory work for WRC-31;

- the structure/table of contents of the CPM Report to WRC-27, Chapter Rapporteurs and outline of the draft CPM Report to WRC-27; and
- the proposed chapter structure and working procedures for the CPM in accordance with Resolution ITU-R 2-9.

Furthermore, the meeting appointed 5 Vice-Chairs for CPM-27, as tasked by RA-23 after further informal consultations guided by the Director of the BR.

The meeting concluded also that the output of CPM27-1 will be provided in this Administrative Circular and invited the Chairs of the SGs and designated Chairs for the WPs as well as the CPM-27 Chapter Rapporteurs to use of this information and these decisions.

Finally, initial information about the timeline towards the second session of CPM-27 was provided by the Counsellor in accordance with Resolution ITU-R 2-9.

2 Review of relevant outputs from RA-23 and WRC-23

2.1 From RA-23

Input Documents: Resolution [ITU-R 1-9](#); Resolution [ITU-R 2-9](#); [CPM27-1/1](#), [CPM27-1/2](#)

The meeting was informed about the newly appointed Chairs of the ITU-R SGs, RAG and CCV.

The Chair introduced the relevant amendments and modifications approved at RA-23 to the working methods for the RA, the SGs, the RAG and other ITU-R groups, which are included in Resolution ITU-R 1-9. Particular attention was drawn specific provisions regarding the adoption of conference related studies and draft deliverables.

The Chair also introduced the amendments and modifications approved at RA-23 to the CPM, which are included in Resolution ITU-R 2-9, and informed about considerations on the CPM process at RA-23.

Th meeting noted this information as well as the structure of ITU-R SGs approved at RA-23 (see Doc. [CPM27-1/1](#)).

The Chair also introduced the list from RA-23 of the proposed Vice-Chairs for CPM-27 (Doc. CPM27-1/2). After intense initial considerations on the appointment, no immediate consensus could be reached. It was decided to allow informal consultations guided by the Director of the BR in order to find a solution to the issue.

On 19 December, the Director informed about a modification of the list (see Doc. [CPM27-1/2\(Rev.1\)](#)), which was then approved by the meeting by consensus.

The Chair thanked the Director and all involved members for their cooperative spirit of compromise and congratulated the appointed CPM-27 Vice-Chairs.

2.2 From WRC-23

Input Documents: Resolution [COM6/23 \(WRC-23\)*](#), [Resolution COM6/25 \(WRC-23\)**](#) and [associated Resolutions](#), [CPM27-1/3](#)

The Chair introduced briefly the agenda for WRC-27 (Resolution **COM6/23 (WRC-23)***) and the preliminary agenda for WRC-31 (Resolution **COM6/25 (WRC-23)****).

* Resolution **813 (WRC-23)**.

** Resolution **814 (WRC-23)**.

Furthermore, the meeting was informed about considerations at WRC-23 on improving the process of preparatory studies for a WRC (see Doc. [CPM27-1/3](#)). The meeting considered the different outlined elements within this text of the Minutes of the WRC-23 plenary and whether the contributing groups need further guidelines/obligations in order to develop commonly acceptable studies with regards to a specific agenda item. It was outlined that common guidelines or obligations by the CPM may not be suitable to the specifics of an agenda item. It was finally concluded that the responsible and contributing groups should work as much as possible towards common parameters, characteristics and methodologies in the preparatory studies on an agenda item. If criteria or other relevant elements are submitted by a contributing group, the responsible groups have to take them into account.

The meeting considered further specific deadlines and procedures in case a contributing group may not be able to meet the set deadline for its contribution. Several proposals for deadlines were made and considered. A starting option was a general deadline at the end of 2024 and an absolute deadline for the submission of the contributing groups around mid-2025. Another option has been a relative deadline for the contributing groups at their 2nd or 3rd meeting. Due to differences in the number of meetings, e.g. WPs of SG 3 and SG 1, the latter option has not been considered specific enough. The meeting finally agreed to set a general deadline on criteria, characteristics and methodologies on the 31 December 2024. This is in particular valid for existing material which should be checked and compiled by the contributing groups. This deadline may be extended up to the 1 July 2025 by the CPM-27 Steering Committee based on information provided by a contributing group. The CPM-27 Chapter Rapporteurs are tasked to remind the relevant contributing groups about the deadline.

3 Organization of preparatory studies according to the WRC-27 agenda

Input Documents: [CPM27-1/5 \(Annex 1\)](#), [CPM27-1/6*](#) (Annex 4), [CPM27-1/7*](#) (Annex)

The Chair informed the meeting about a CPM-27 Steering Group meeting held on 15 December 2023, which was attended by the Chairs of the SGs, RAG and CCV as well as some designated/former Chairs of the Working Parties by invitation of the Chair. This Steering Group meeting developed initial thoughts regarding the organization of the preparatory studies according to the WRC-27 agenda and WRC-31 preliminary agenda (see Doc. CPM27-1/5).

The United States and France briefly introduced their contributions on the organization of preparatory studies (see the relevant part of Docs. CPM27-1/6 and CPM27-1/7).

Although there was general consensus on the responsible groups for many agenda items, the meeting considered different approaches for WRC-27 agenda items 1.2, 1.10, 1.12, 1.13 and 1.18.

Regarding the contributing groups, several modifications were made in comparison to the proposals from the Steering Group. Many of them were linked to WPs 1A, 3K, 3L and 3M. The Chairs of SG 1 and SG 3 explained their understanding why contributions from those WPs are necessary.

Following past practices, the Chair recalled that, after this CPM27-1 meeting, the CPM-27 Steering Committee and/or Management Team could always consider a justified request from the Chair of a SG or WP to add this WP as another contributing group to the studies on an agenda item.

* Relevant part.

The meeting agreed to invite all responsible and contributing groups to consider liaison activities with WP 1A in cases of uncertainty about the spectrum engineering elements being considered in the preparatory studies.

For WPs of SG 3, it has been agreed that sending relevant information on the preparatory studies to one of the SG 3 WPs will be sufficient as the structure of SG 3 will allow the involvement of other SG 3 WPs at the same meetings. Furthermore, due to specific preparatory work on necessary propagation methodologies and criteria, a note has been added for WRC-27 agenda item 1.18 in the table on the organization of the preparatory studies.

On those agenda items, offline consultations were carried out between interested parties during the meeting, which resulted in the addition of notes in the table on the organization of the preparatory studies.

On that basis, the meeting approved by consensus the table of Allocation of ITU-R preparatory work for WRC-27, as shown in Annex 7 to this Administrative Circular.

The meeting agreed further to list in the Chair’s Report the WRC-27 agenda items with overlapping frequency bands. This list is provided for information in Table 1 below. Following past practices, the responsible groups are invited to exchange the necessary characteristics, parameters and protection criteria as soon as possible to complete studies addressing mutual compatibility and sharing feasibility among the applicable services/applications. They should coordinate their work and review, as appropriate, the progress of studies so that any potential difficulties can be addressed. In cases of difficulties, the responsible groups are invited to inform to the CPM-27 Steering Group for further guidance.

TABLE 1

WRC-27 agenda items with overlapping frequency bands

Frequency bands	WRC-27 agenda items (responsible groups)
1 427-1 432 MHz; 1 645.5-1 646.5 MHz; 1 880-1 920 MHz	1.12 (WP 4C); 1.13 (WP 4C)
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	1.11 (WP 4C); 1.13 (WP 4C)
2 010-2 025 MHz	1.12 (WP 4C); 1.13 (WP 4C); 1.14 (WP 4C)
2 120-2 160 MHz; 2 160-2 170 MHz	1.13 (WP 4C); 1.14 (WP 4C)
2 483.5-2 500 MHz	1.11 (WP 4C); 1.13 (WP 4C); 1.15 (WP 7B)
2 400-2 483.5 MHz; 2 500-2 690 MHz	1.13 (WP 4C); 1.15 (WP 7B)
7 190-7 235 MHz	1.7 (WP 5D); 1.15 (WP 7B)
8 450-8 500 MHz	1.15 (WP 7B); 1.19 (WP 7C)
42.5-43.5 GHz	1.6 (WP 4A); 1.16 (WP 7D)
47.2-50.2 GHz; 50.4-51.4 GHz	1.1 (WP 4A); 1.6 (WP 4A)
71-76 GHz	1.10 (WP 5C); 1.16 (WP 7D); 1.18 (WPs 7C & 7D)
81-86 GHz	1.10 (WP 5C); 1.18 (WP 7C & WP 7D)
114.25-116 GHz; 130-134 GHz	1.16 (WP 7D); 1.18 (WP 7C & WP 7D)

4 Organization of preparatory studies for the subsequent WRC (WRC-31)

Input Documents: [CPM27-1/5 \(Annex 2\)](#), [CPM27-1/6* \(Annex 5\)](#)

The relevant parts of Doc. CPM27-1/5 and CPM27-1/6 on the organization of the preparatory studies for WRC-31 were introduced briefly.

There was general consensus that for the WRC-31 preliminary agenda items, it is sufficient that one group should be identified as collector of study information and it is not necessary to identify contributing groups (with the exception of preliminary agenda item 2.14). In addition, some offline consultations were carried out to clarify the responsibilities for preliminary agenda item 2.13 as indicated in the note added to the Table on the organization of the preparatory studies. A note was also added in that table to stress the importance of SG 3 WPs activities regarding preliminary agenda item 2.6.

On that basis, the meeting approved by consensus table of Allocation of ITU-R preparatory work for WRC-31, as shown in Annex 8 to this Administrative Circular.

5 Proposed structure/table of contents and outline of the draft CPM Report to WRC-27

Input Documents: Resolution [ITU-R 2-9*](#), [CPM27-1/4](#), [CPM27-1/6* \(Annexes 2, 3\)](#), [CPM27-1/7*](#)

The meeting considered the proposals provided to the meeting and in view of the conclusions reached on the organization of preparatory studies for WRC-27 and WRC-31 (see sections 3 and 4 above), the table of contents of the draft CPM Report proposed by the Chair was approved with slight amendments. It can be found in Annex 5 to this Administrative Circular.

Furthermore, an informal session between the representatives of the regional groups was held to consider the nominations of the CPM-27 Chapter Rapporteurs. The outcome of this session was presented to the meeting by the Chair and was unanimously approved, as shown in Annex 5 to this Administrative Circular.

The Chair expressed his gratitude to the representatives and the candidates. He congratulated the appointed Chapter Rapporteurs.

It was agreed to develop the outline of the draft CPM Report to WRC-27 after the meeting based on the conclusions reached on the organization of preparatory studies for WRC-27 and WRC-31 (see sections 3 and 4 above), on the table of contents of the draft CPM Report (as explained above) and on the chapter structure (see section 6 below). The resulting outline of the draft CPM Report to WRC-27 can be found in Annex 9 to this Administrative Circular.

6 Chapter structure and CPM-27 working procedure

Input document: Resolution [ITU-R 2-9*](#), [CPM27-1/6* \(Annex 1\)](#)

The meeting considered thoroughly the proposal provided to the meeting and approved it with slight amendments. The Chapter structure and working procedures for the CPM in accordance with Resolution ITU-R 2-9 can be found in Annex 6 to this Administrative Circular.

7 Any other business

None.

8 Closure of the CPM27-1

The Chair thanked all the participants for their good spirit of compromise and collaboration. He expressed his wish that this will continue in the same way throughout the study cycle. A huge thank you have been provided to the host of the first session of CPM-27 and last but not least to the Director, the interpreters, the ITU staff and the BR Counsellor for CPM, Mr Philippe Aubineau, for his excellent and extraordinary work.

The first session of CPM-27 closed on 19 December 2023 at 1500 hours.

ANNEX 5

Table of contents of the draft CPM Report to WRC-27 and Chapter Rapporteurs

CHAPTER 1 **Fixed-satellite and broadcasting-satellite issues**

Agenda items: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 7

Co-Rapporteurs: Mr Andrew PEGUES (for 1.1, 1.2, 1.3, 1.4, 1.6)

Mr Mostafa MOUSA (for 1.5, 7)

CHAPTER 2 **Fixed, mobile and radiolocation issues**

Agenda items: 1.7, 1.8, 1.9, 1.10

Co-Rapporteurs: Mr Richard MAKGOTLHO (for 1.8, 1.9)

Mr Abdulla JABER (for 1.7, 1.10)

CHAPTER 3 **Mobile-satellite issues**

Agenda items: 1.11, 1.12, 1.13, 1.14

Rapporteur: Mr Sergey S. UVAROV

CHAPTER 4 **Science issues**

Agenda items: 1.15, 1.16, 1.17, 1.18, 1.19

Rapporteur: Mr Jean PLA

CHAPTER 5: **General issues**

Agenda items: 2 and 4

Rapporteur: Mr Bin LIU

ANNEX 1 **Information on WRC-27 agenda item 10**

ANNEX 2 **Information on WRC-27 agenda item 8**

ANNEX 6

Chapter structure and working procedures for the CPM in accordance with Resolution ITU-R 2-9

1 Chapter structure for agenda items other than agenda item 10

1.1 WRC agenda item X.xx *Insert text of relevant agenda item.*

1.2 Executive summary to describe briefly the purpose of the agenda item, summarize the results of the studies carried out and, most importantly, provide a brief description of the method(s) identified that may satisfy the agenda item.

1.3 Background section¹ to provide general information in a concise manner, in order to describe the rationale of the agenda items (or issue(s)).

1.4 Summary of technical and operational studies, including a list of relevant ITU-R Recommendations.

1.5 Analysis of the results of studies relating to the possible methods of satisfying the agenda item.

1.6 Methods to satisfy the agenda item.

1.7 Regulatory and procedural considerations.

2 Annex structure for agenda item 10

2.1 WRC-23 proposed agenda item X.xx – Resolution XXX

2.2 *For preliminary agenda items:* A short summary of ITU-R studies completed under the preliminary agenda item for information only.

For new future agenda items: Executive summaries developed by contributing Member States, limited to no more than half a page, for information only.

3 Duties of Chapter Rapporteurs

3.1 To act for the Chair of the CPM to ensure that the consistency of format and structure and the guidelines of amount of text are observed.

3.2 To ensure integration of most recent Working Party outputs into consolidated draft CPM text by consultation with or assistance from Working Party Chairs to ensure that CPM work is complete and on time.

¹ It shall not include advertisement, promotional and commercial information.

4 CPM working procedures

4.1 A single *responsible* Study Group or Working Party is identified overall for each agenda item. A *responsible* group may also be designated for each sub-item where an agenda item is easily divisible into coherent work packages, e.g. in relation to a specific Resolution or Recommendation, or part(s) thereof.

4.2 The *responsible* Study Group or Working Party has the responsibility to prepare a draft element of the CPM Report addressing the specific agenda item or sub-item for which it has main responsibility. The Study Group or Working Party should ensure that the necessary coordination with the *contributing* groups is carried out.

4.3 In the preparation of the CPM Report, differences in approach as contained in the source material shall be reconciled to the extent possible. In cases where all efforts to reconcile differences have been exhausted, alternative approaches with their justification could be included (see sections A2.3 and A2.4 of Resolution ITU-R 2-9).

4.4 The *contributing* Study Groups or Working Parties for any item or sub-item, will not contribute directly to the CPM, but may contribute to the work of the *responsible* group for that item or sub-item, by the following means:

- participation of members of the *contributing* groups in the work and meetings of the *responsible* group;
- appointment of rapporteurs to represent their interests in the work and meetings of the *responsible* group;
- liaison statements.

4.5 The output of the *responsible* group shall be submitted to the CPM in accordance with Resolution ITU-R 2-9 and its working methods as outlined in Annex 1 to this Resolution.

4.6 A consolidated draft CPM Report shall be prepared by the CPM Management Team assisted, as appropriate, by the Chairs of Study Groups or Working Parties, for submission to Member States and ITU-R Sector Members in time for the second meeting of CPM.

NOTE – The Chair, Vice-Chairs, the Chapter Rapporteurs, and the CPM Secretary will be called the CPM Steering Committee.

ANNEX 7**

Allocation of ITU-R preparatory work for WRC-27

The attached Table contains allocation of ITU-R preparatory work for WRC-27 agenda items, as proposed in Resolution **813 (WRC-23)**.

It includes entries for the identification of the ITU-R “responsible groups” and “contributing groups” for the WRC-27 agenda items.

NOTE 1 – The ITU-R Working Parties indicated in the following Table have been identified based on the ITU-R Study Group structure contained in Document [CPM27-1/1](#).

NOTE 2 – The responsible groups are invited to communicate on a regular basis the progress and results of their studies to the contributing groups.

** The texts of the resolutions included in this Annex have been copied from the WRC-23 provisional Final Acts. The COM4 and COM6 numbers of the new WRC-23 resolutions have been replaced by the provisional resolution numbers provided in Annex 3 to this Administrative Circular.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1		on the basis of proposals from administrations, taking account of the results of WRC-23 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the frequency bands under consideration, to consider and take appropriate action in respect of the following items:	
1.1		to consider the technical and operational conditions for the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with space stations in the fixed-satellite service and develop regulatory measures, as appropriate, to facilitate the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with geostationary space stations and non-geostationary space stations in the fixed-satellite service, in accordance with Resolution 176 (Rev.WRC-23) ;	
<p>Resolution 176 (Rev.WRC-23)</p> <p>Studies on the use of the frequency bands 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion in the fixed-satellite service</p>	<p>WP 4A</p>	<p><i>considering</i></p> <p><i>a)</i> that the frequency bands 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) are globally allocated on a primary basis to the fixed-satellite service (FSS);</p> <p>...</p> <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on the spectrum needs and technical and operational characteristics of A-ESIMs and M-ESIMs that plan to operate within FSS allocations in the frequency bands mentioned in <i>considering a)</i>, or parts thereof;</p> <p>2 studies on sharing and compatibility between A-ESIMs and M-ESIMs communicating with space stations in the FSS in the frequency bands mentioned in <i>considering a)</i>, or parts thereof, and the stations of primary services allocated in these frequency bands and in adjacent frequency bands, including passive services in adjacent and near-adjacent frequency bands, in order to ensure protection of, and not impose undue constraints on, those services;</p> <p>3 the development, for M-ESIMs and A-ESIMs, of the technical conditions for their operation, taking into account the results of the studies above;</p> <p>4 the development, for M-ESIMs and A-ESIMs communicating with GSO networks and non-GSO systems, of regulatory provisions for their operation, taking into account the results of the studies above;</p> <p>5 consideration of the results of studies within the ITU Radiocommunication Sector (ITU-R) for the development of a new Recommendation for the Network Control and Monitoring Centre for ESIM operations;</p> <p>6 studies on the responsibility of the administrations involved in the operations of the A-ESIMs and M-ESIMs addressed by this Resolution,</p> <p><i>invites the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>the development, for M-ESIMs and A-ESIMs communicating with GSO networks or non-GSO systems, regulatory provisions for their operation, taking into account the results of the studies above,</p>	<p>WP 3M</p> <p>WP 4C</p> <p>WP 5A</p> <p>WP 5B</p> <p>WP 5C</p> <p>WP 5D</p> <p>WP 7B</p> <p>WP 7C</p> <p>WP 7D</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		<p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider the results of the above studies and take the necessary actions for GSO and non-GSO ESIMs, as appropriate, provided that the results of the studies referred to in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> are complete and agreed by the ITU-R Study Groups.</p>	
<p>1.2 to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution 129 (WRC-23);</p>			
<p>Resolution 129 (WRC-23) Studies on possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes</p>	<p>WP 4A*</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on the technical and operational limitations regarding the minimum antenna size and associated power limitations of GSO and non-GSO FSS earth stations in the frequency band 13.75-14 GHz (Earth-to-space), while ensuring the protection of the services stipulated in Nos. 5.502 and 5.503;</p> <p>2 studies on possible changes to Nos. 5.502 and 5.503 and possible associated regulatory measures,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of the above studies, the minimum antenna size and associated power limitations of GSO and non-GSO FSS earth stations in the frequency band 13.75-14 GHz (Earth-to-space), possible changes to Nos. 5.502 and 5.503, and consequential regulatory measures.</p>	<p>WP 3M WP 5A WP 5B* WP 5C WP 7A WP 7B WP 7C</p>

* Based on past experiences on the studies on this frequency band and the complexity of this issue, special attention should be paid to the interaction between WP 4A and WP 5B. Therefore WP 4A needs to take into account, as received, the potential update information and characteristics on the protection and operation of the radiolocation service as duly provided by WP 5B, in order to perform the relevant sharing studies. Based on progress on the studies in WP 4A, in case of necessity, joint meeting sessions of WP 4A and WP 5B should be organised to facilitate the collaboration between the WPs on the issue relative to the protection of the radiolocation service.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.3 to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution 130 (WRC-23);</p>			
<p>Resolution 130 (WRC-23) Studies relating to the use of the frequency band 51.4-52.4 GHz to enable its use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space)</p>	<p>WP 4A</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 sharing and compatibility studies with existing services, including in adjacent bands, including protection of the fixed and mobile services, and studies relating to the suitability of revising conditions associated with the primary allocation to the FSS in the frequency band 51.4-52.4 GHz (Earth-to-space) to enable its use by gateway earth stations of non-GSO FSS systems (Earth-to-space), and the relevant regulatory studies;</p> <p>2 compatibility studies between non-GSO FSS gateway operation in the frequency band 51.4-52.4 GHz and the existing primary passive services operating in the frequency band 52.6-54.25 GHz in order to review and revise Resolution 750 (Rev.WRC-19) to protect the EESS (passive), considering the aggregated interference from GSO gateway earth stations and non-GSO FSS gateway earth stations and taking into account that the existing limits for GSO FSS networks to protect the EESS (passive) operating in the frequency band 52.6-54.25 GHz established in Resolution 750 (Rev.WRC-19) continue to apply for those GSO FSS networks that were notified/brought into use before a date to be defined at WRC-27;</p> <p>3 studies on sharing and compatibility between non-GSO FSS gateway operation in the frequency band 51.4-52.4 GHz and the radio astronomy observations carried out in the frequency band 51.4-54.25 GHz in conformity with No. 5.556, in order to determine the conditions to ensure the protection of these observations;</p> <p>4 studies regarding the protection of GSO FSS space stations from the emissions of non-GSO FSS gateway earth stations, including possible associated regulatory actions and possible inclusion of the frequency band 51.4-52.4 GHz in the scope of Resolutions 769 (WRC-19) and 770 (Rev.WRC-23),</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of the ITU-R studies, the possible revision of the conditions related to allocations to the FSS in the frequency band 51.4-52.4 GHz to enable its use by non-GSO FSS gateway earth stations on a primary basis and any other related regulatory provisions.</p>	<p>WP 3M WP 5A WP 5C WP 7C WP 7D</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.4 to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution 726 (WRC-23);</p>			
<p>Resolution 726 (WRC-23) Possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, and consideration of equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz</p>	<p>WP 4A</p>	<p><i>Resolves</i> that the studies referred to in <i>invites the ITU Radiocommunication Sector to conduct and complete in time for the 2027 world radiocommunication conference</i> below shall protect radiocommunication services to which the frequency band is allocated on a primary basis, including the fixed and mobile services, in particular assignments to the BSS feeder links contained in Appendix 30A, <i>invites the ITU Radiocommunication Sector to conduct and complete in time for the 2027 world radiocommunication conference</i> 1 studies on sharing and compatibility between the FSS (space-to-Earth), the BSS (space-to-Earth) and the FSS (Earth-to-space) designated by No. 5.516 in order to consider a possible new primary allocation to the FSS (space-to-Earth) in the frequency band 17.3-17.7 GHz for Region 3 and to the BSS (space-to-Earth) in the frequency band 17.3-17.8 GHz for Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and without adversely affecting the existing allocations to the FSS (Earth-to-space) designated by No. 5.516, including assignments to the BSS feeder links contained in Appendix 30A; 2 consideration of the applicability of Region 2 non-GSO FSS epfd limits (see <i>noting e</i>) pertaining to the frequency band 17.3-17.7 GHz to Regions 1 and 3, so as to ensure the protection of GSO networks, <i>invites the 2027 world radiocommunication conference</i> to consider the results of the above ITU Radiocommunication Sector (ITU-R) studies and take necessary actions, as appropriate, with respect to the following issues: 1) a possible new primary allocation to the FSS (space-to-Earth) in the frequency band 17.3-17.7 GHz for Region 3; 2) a possible new primary allocation to the BSS (space-to-Earth) in the frequency band 17.3-17.8 GHz for Region 3; 3) ensuring the protection of existing primary allocations in the same and adjacent frequency bands, without adversely affecting the existing allocations to the fixed and mobile services in the frequency band 17.7-17.8 GHz and to the FSS (Earth-to-space) as designated by No. 5.516, including assignments to the BSS feeder links contained in Appendix 30A; 4) the application of Region 2 epfd limits to non-GSO FSS systems (as given in <i>noting e</i>) operating in the frequency band 17.3-17.7 GHz in Regions 1 and 3, ...</p>	<p>WP 3M WP 4B WP 5A WP 5B WP 5C WP 6B WP 7C</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.5		to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution 14 (WRC-23);	
<p>Resolution 14 (WRC-23) Studies on development of regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit (non-GSO) earth stations in the fixed-satellite service (FSS) and mobile-satellite service (MSS) and associated issues related to the service area of non-GSO FSS and MSS satellite systems</p>	<p>WP 4A</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on regulatory measures to limit the unauthorized operations of non-GSO FSS and MSS earth stations in the Earth-to-space direction in order to address and cease such operations, taking into account technical and operational aspects, as appropriate;</p> <p>2 studies on regulatory measures, taking into account <i>recognizing c)</i> with regard to non-GSO FSS and MSS satellite systems, and the implementability of such measures, without adversely affecting the provision of service in the rest of the service area of the non-GSO satellite system,</p> <p>...</p> <p><i>resolves to invite the 2027 world radiocommunication conference</i></p> <p>to consider the results of the studies under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> above and take appropriate action.</p>	<p>WP 1B WP 4C</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.6		to consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands, in accordance with Resolution 131 (WRC-23) ;	
<p>Resolution 131 (WRC-23) Consideration of technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands</p>	<p>WP 4A</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>to study the technical and regulatory measures for FSS satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), or portions thereof, for equitable access, while ensuring the protection of existing primary services to which the band is allocated in the same and adjacent bands, taking into account the specific needs of developing countries:</p> <ul style="list-style-type: none"> – without adversely affecting those services, specifically the operation of the satellite networks and systems in the bands; – without changing measures to protect terrestrial services from unacceptable interference, <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to review the results of the studies in accordance with <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> above and take appropriate action on the usage of the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands by FSS satellite networks/systems,</p> <p>...</p>	<p>WP 1B WP 3M WP 4B WP 4C WP 5A WP 5B WP 5C WP 5D WP 6A WP 7B WP 7C WP 7D</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.7 to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution 256 (WRC-23);</p>			
<p>Resolution 256 (WRC-23) Sharing and compatibility studies and development of technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz for the terrestrial component of IMT</p>	<p>WP 5D</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 the appropriate studies of technical, operational and regulatory issues pertaining to the possible use of the terrestrial component of IMT in the frequency bands listed in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> 2, taking into account:</p> <ul style="list-style-type: none"> – evolving needs to meet emerging demand for IMT; – technical and operational characteristics of terrestrial IMT systems that would operate in these specific frequency bands, including the evolution of IMT through advances in technology and spectrally efficient techniques; – the deployment scenarios envisaged for IMT systems and the related requirements of balanced coverage and capacity; – the needs of developing countries; and – the time-frame in which spectrum would be needed; <p>2 sharing and compatibility studies, with a view to ensuring the protection of services to which the frequency band is allocated on a primary basis, including protection of stations operating in international waters or airspace which cannot be registered in the MIFR, without imposing additional regulatory or technical constraints on those services, and also on services in adjacent bands, for the frequency bands:</p> <ul style="list-style-type: none"> – 4 400-4 800 MHz; – 7 125-8 400 MHz; and – 14.8-15.35 GHz, <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on results of studies, the identification of frequency band(s):</p> <ul style="list-style-type: none"> – 4 400-4 800 MHz, or parts thereof, in Region 1 and Region 3; – 7 125-8 400 MHz, or parts thereof, in Region 2 and Region 3; – 7 125-7 250 MHz and 7 750-8 400 MHz, or parts thereof, in Region 1; – 14.8-15.35 GHz, <p>for the terrestrial component of IMT.</p>	<p>WP 1B WP 3K WP 3M WP 4A WP 4C WP 5A WP 5B WP 5C WP 7B WP 7C WP 7D</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
1.8		to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution 663 (Rev.WRC-23) ;	
<p>Resolution 663 (Rev.WRC-23) Studies on possible new additional allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz, and possible new identifications for radiolocation service applications in frequency bands within the frequency range 275-700 GHz</p>	<p>WP 5B</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 the description of the technical and operational characteristics, including required protection criteria, for those receive-only and active millimetric and sub-millimetric wave RLS systems and applications in the categories listed in <i>recognizing a</i>);</p> <p>2 studies on globally harmonized spectrum for the RLS, in particular for those millimetric and sub-millimetric wave RLS systems and applications above 231.5 GHz;</p> <p>3 sharing and compatibility studies (in-band and adjacent bands) for active millimetric and sub-millimetric wave RLS systems and applications with other services in the frequency range 231.5-275 GHz, while ensuring protection for the current use and further development of the incumbent services allocated to this frequency range;</p> <p>4 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with EESS (passive), space research service (passive) and RAS applications in the frequency range 275-700 GHz, while maintaining protection for the passive service applications identified in No. 5.565;</p> <p>5 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with fixed service and land mobile service applications in the frequency range 275-450 GHz, as identified in No. 5.564A,</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>1 to determine, based on the results of the ITU-R studies described in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i>, possible new allocations to the RLS in the frequency range 231.5-275 GHz on a primary basis, considering required regulatory measures, while taking into account and ensuring the protection of the current use and further development of existing services in the frequency bands considered and in adjacent frequency bands;</p> <p>2 to determine, based on the results of the ITU-R studies described in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i>, possible identifications of frequency bands in the frequency range 275-700 GHz for use by RLS applications, considering required regulatory measures, while ensuring the protection of the applications identified in Nos. 5.564A and 5.565 in the frequency bands considered and, as appropriate, in adjacent frequency bands.</p>	<p>WP 3J WP 3K WP 3M WP 4A WP 4C WP 5A WP 5C WP 7C WP 7D</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
1.9 to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution 411 (WRC-23);			
<p>Resolution 411 (WRC-23) Consideration of appropriate regulatory actions to update Appendix 26 in support of modernization of high-frequency spectrum use in the aeronautical mobile (OR) service</p>	<p>WP 5B</p>	<p><i>recognizing</i></p> <p>...</p> <p>c) that for the purpose of this Resolution, the term “wideband” in HF communications may refer to a combination of emissions wider than 3 kHz channels;</p> <p>d) that wideband operation can be achieved by single- or multi-carrier emissions;</p> <p>e) that wideband operation may be achieved by contiguous or non-contiguous channel aggregation for multi-carrier emissions;</p> <p>f) that the use of existing frequency and area allotments in the frequency bands allocated to the aeronautical mobile (OR) service between 3 025 kHz and 18 030 kHz is governed by the provisions of Appendix 26,</p> <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on the introduction of new technologies that enhance performance, including, but not limited to, new classes of emission, wideband systems (see <i>recognizing c), d) and e)</i>), etc., to the aeronautical mobile (OR) service systems in the frequency ranges considered in Appendix 26;</p> <p>2 in order to undertake <i>resolves to invite ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i>, the definition of the relevant technical and operational characteristics and conduct sharing and compatibility studies with existing aeronautical mobile (OR) service systems and with other incumbent services that are allocated on a primary basis in the same or adjacent frequency bands;</p> <p>3 based on ITU Radiocommunication Sector (ITU-R) studies, the identification of any potential modifications to Appendix 26, without modifying the existing area allotments in <i>recognizing f)</i>, and while taking into account that the current use of the narrowband systems shall remain unchanged and shall not be impacted nor precluded by the revision of Appendix 26,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider necessary changes, as appropriate, to Appendix 26, on the basis of the studies conducted under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> above.</p>	<p>WP 3L WP 5C WP 6A WP 7A</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
1.10 to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution 775 (Rev.WRC-23) ;			
Resolution 775 (Rev.WRC-23) Power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz	WP 5C*	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>the appropriate studies to determine power flux-density (pfd) and equivalent isotropically radiated power (e.i.r.p.) limits to be included in Article 21 for satellite services (fixed-satellite service (FSS), mobile-satellite service (MSS) and broadcasting-satellite service (BSS)) to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, the inclusion of pfd and e.i.r.p. limits in Article 21 for the FSS, MSS and BSS to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz.</p>	WP 1A WP 3J WP 3M WP 4A* WP 4B WP 4C* WP 5A* WP 5B WP 6A WP 7C WP 7D

* Studies should be carried out in close collaboration between the indicated WPs.

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Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.11 to consider the technical and operational issues, and 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 and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution 249 (Rev.WRC-23);</p>			
<p>Resolution 249 (Rev.WRC-23) Study of technical and operational issues and regulatory provisions for space-to-space transmissions 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 and 2 483.5-2 500 MHz</p>	<p>WP 4C</p>	<p><i>recognizing further</i></p> <p>...</p> <p>e) that Nos. 5.357A and 5.362A provide priority for accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, and 1 555-1 559 MHz and 1 656.5-1 660.5 MHz, respectively;</p> <p>f) that No. 5.353A provides priority for distress, urgency and safety communications of the GMDSS in the frequency bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz;</p> <p>...</p> <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies of the technical and operational characteristics of different types of non-GSO space stations that operate or plan to operate space-to-space links with GSO networks in the following frequency bands, with the limitation that these space-to-space links only operate in the same direction as the existing MSS allocations:</p> <p>a) Earth-to-space direction in the frequency bands 1 626.5-1 645.5 MHz and 1 646.5-1 660 MHz; and</p> <p>b) space-to-Earth direction in the frequency bands 1 525-1 544 MHz and 1 545-1 559 MHz;</p> <p>2 studies of the technical and operational characteristics of different types of non-GSO space stations that operate or plan to operate space-to-space links with non-GSO systems or GSO networks in the following frequency bands, with the limitation that these space-to-space links only operate in the same direction as the existing MSS allocations:</p> <p>a) Earth-to-space direction in the frequency bands 1 610-1 626.5 MHz and 1 670-1 675 MHz; and</p> <p>b) space-to-Earth direction in the frequency bands 1 518-1 525 MHz, 1 613.8-1 626.5 MHz and 2 483.5-2 500 MHz;</p> <p>3 studies of sharing and compatibility between space-to-space links in the cases described in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i> 1 and 2 and</p> <ul style="list-style-type: none"> - current and planned stations of the MSS, taking into account, in particular, <i>recognizing further e) and f)</i>; - other existing primary services allocated in the same frequency bands; - other existing primary services allocated in adjacent frequency bands; and 	<p>WP 3L</p> <p>WP 3M</p> <p>WP 4A</p> <p>WP 4B</p> <p>WP 5A</p> <p>WP 5B</p> <p>WP 5C</p> <p>WP 5D</p> <p>WP 6A</p> <p>WP 7B</p> <p>WP 7C</p> <p>WP 7D</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
		<p>– existing passive services allocated in adjacent frequency bands; in order to ensure protection of other MSS operations and other services allocated in those frequency bands and in adjacent frequency bands, taking into account <i>recognizing further a) to m)</i>;</p> <p>4 development of technical conditions and regulatory provisions for the operation of space-to-space links in these frequency bands, including MSS (space-to-space) allocations or the addition of inter-satellite service (ISS) allocations, in all or parts of the frequency bands identified in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1 and 2 above</i>, with the condition that stations operating in an MSS (space-to-space) or ISS allocation shall not cause harmful interference to, or claim protection from, the MSS (space-to-Earth) or MSS (Earth-to-space), while ensuring the protection of other services allocated in those and adjacent frequency bands, taking into account the results of the studies called for in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1, 2, and 3 above</i>,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i> to consider the results of the above studies and take necessary regulatory actions, as appropriate.</p>	

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Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.12 to consider, based on the results of studies, 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) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems, in accordance with Resolution 252 (WRC-23);</p>			
<p>Resolution 252 (WRC-23) Studies on potential new allocations to, and regulatory actions for, the mobile-satellite service 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) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems</p>	<p>WP 4C</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on spectrum requirements, technical and operational characteristics and conditions for non-GSO low-data-rate MSS systems, including mitigation techniques, that allow coexistence of these systems in the same frequency bands;</p> <p>2 studies on sharing and compatibility between the non-GSO low-data-rate MSS systems and the existing primary services operating 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) (Earth-to-space) and in the relevant adjacent frequency bands, in order to ensure protection of existing services,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, possible allocations to the MSS and possible regulatory actions in the frequency bands referred to in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i>.</p>	<p>WP 3L WP3M WP 4B</p> <p>(WP 4B is requested to provide information on future development of low-data-rate non-GSO MSS systems)</p> <p>WP 5A WP 5B WP 5C WP 5D WP 7B WP 7C WP 7D</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.13 to consider studies on 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, in accordance with Resolution 253 (WRC-23);</p>			
<p>Resolution 253 (WRC-23) Studies on 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</p>	<p>WP 4C*</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on possible allocations to the MSS in the frequency range between 694/698 MHz and 2.7 GHz, taking into account the IMT frequency arrangements addressed in the most recent version of Recommendation ITU-R M.1036;</p> <p>2 studies on spectrum requirements and on technical, operational and regulatory matters related to the implementation of the mobile-satellite service for direct connectivity to the IMT user equipment to complement the terrestrial IMT network coverage,</p> <p><i>further resolves</i></p> <p>1 to conduct studies on sharing and compatibility between incumbent services, including in adjacent frequency bands, ensuring the protection of incumbent services in accordance with the Radio Regulations;</p> <p>2 to study possible technical and operational measures to ensure that the stations in the MSS do not cause harmful interference to, or claim protection from, stations operating in the mobile service,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, the appropriate regulatory actions, including possible new allocations to the MSS for direct connectivity between space stations and IMT user equipment to complement terrestrial IMT network coverage.</p>	<p>WP 3L WP 3M WP 4A WP 4B WP 5A WP 5B WP 5C WP 5D* WP 6A WP 7B WP 7C WP 7D</p>

* WP 4C will carry out the studies on possible allocations to the MSS in the frequency bands between 694/698 MHz and 2.7 GHz provided by input contributions, including those from WP 5D based on the IMT frequency arrangements contained in the most recent version of Recommendation ITU-R M.1036.

WP 4C, in close collaboration with WP 5D, will conduct studies referred to in the *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 2*.

WP 4C will carry out the studies requested in the *further resolves 1 and 2*. WP 5D is expected to provide studies which include regulatory considerations on the protection of terrestrial component of IMT.

WP 4C should take the lead in developing the draft CPM text by including the WP 5D's results on the regulatory considerations on the protection of terrestrial component of IMT. To facilitate the work, the Chairs of both WPs should coordinate the schedule of WPs meetings, as appropriate, and provide a note to both WPs in this regard.

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Topic	Responsible group	Action to be taken by the group	Contributing group
1.14		to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution 254 (WRC-23) ;	
<p>Resolution 254 (WRC-23) Studies on possible new frequency allocations to the mobile-satellite service in the frequency bands 2 010-2 025 MHz (Earth-to-space) and 2 160-2 170 MHz (space-to-Earth) in Regions 1 and 3 and 2 120-2 160 MHz (space-to-Earth) in all Regions</p>	<p>WP 4C</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on relevant spectrum requirements and technical, operational and regulatory matters for the MSS in connection with possible new allocations to the MSS in the frequency bands 2 010-2 025 MHz (Earth-to-space) and 2 160-2 170 MHz (space-to-Earth) in Regions 1 and 3 and 2 120-2 160 MHz (space-to-Earth) in all Regions;</p> <p>2 studies on sharing and compatibility of possible new allocations to the MSS in the frequency bands being studied to ensure the protection of existing services allocated on a primary basis, and also in adjacent frequency bands, without adversely affecting those services;</p> <p>3 studies on possible technical, operational and regulatory measures that ensure the protection of existing services and their continued operation and future development without imposing additional regulatory or technical constraints on those services, while ensuring their protection from harmful interference, when considering possible additional allocations to the MSS,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on results of studies conducted under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i>, possible new allocations and associated regulatory conditions for the MSS, while ensuring the protection of existing primary services.</p>	<p>WP 3L WP 4B WP 5A WP 5C WP 5D WP 7B WP 7C</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.15 to 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, in accordance with Resolution 680 (WRC-23);</p>			
<p>Resolution 680 (WRC-23) 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</p>	<p>WP 7B</p>	<p><i>considering</i></p> <p>...</p> <p><i>h)</i> that lunar scientific and exploration activities can advance the development of potential future space activities beyond space research, which may in the future include other relevant radiocommunication services for lunar communications,</p> <p><i>noting</i></p> <p><i>a)</i> that Section V of Article 22 addresses protection of radio astronomy in the SZM;</p> <p><i>b)</i> that Recommendation ITU-R RA.479-5 relates to the protection of frequencies for radioastronomical measurements in the SZM, with a view to preserving the unique radioastronomical capabilities in this zone;</p> <p><i>c)</i> that the impact of unintended electromagnetic radiation from electrical and electronic systems into radio astronomy receivers should be assessed (see Question ITU-R 243/1),</p> <p>...</p> <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies of the spectrum needs of systems in the SRS which may operate on the lunar surface, or systems in lunar orbit communicating with systems on the lunar surface, in the following frequency ranges or portions thereof, taking into account <i>noting a), b) and c)</i>:</p> <ul style="list-style-type: none"> - 390-406.1 MHz, 420-430 MHz and 440-450 MHz, limited to outside the SZM; - 2 400-2 690 MHz, 3 500-3 800 MHz, 5 150-5 570 MHz, 5 570-5 725 MHz, 5 775-5 925 MHz, 7 190-7 235 MHz, 8 450-8 500 MHz and 25.25-28.35 GHz; <p>2 studies of the technical and operational characteristics, as well as protection criteria, of systems in the SRS that are planned for operation in the frequency bands in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i>, as well as protection criteria to be applied for the protection of the radio astronomy service (RAS) and SRS active and passive sensors on the lunar surface and lunar orbit;</p> <p>3 studies of the propagation considerations for lunar surface systems and lunar-orbiting systems operating in the frequency ranges in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i>;</p>	<p>WP 1B</p> <p>WP 3J</p> <p>WP 4A</p> <p>WP 4C</p> <p>WP 5A</p> <p>WP 5B</p> <p>WP 5C</p> <p>WP 5D</p> <p>WP 7A</p> <p>WP 7C</p> <p>WP 7D</p>

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Topic	Responsible group	Action to be taken by the group	Contributing group
		<p>4 studies of sharing and compatibility related to systems in the SRS that are planned for operation in the frequency ranges identified in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i> to ensure protection of:</p> <ul style="list-style-type: none"> – radiocommunication services, as specified in <i>recognizing g) to n)</i>, and – the RAS on the Earth and in the SZM in the same, adjacent or nearby bands; <p>5 studies of potential new or modified frequency allocations and/or identifications to the SRS with appropriate regulatory provisions, for communications on the lunar surface or in lunar orbit communicating with systems on the lunar surface,</p> <p style="text-align: center;"><i>invites the ITU Radiocommunication Sector</i></p> <p>1 to begin studying, taking into account <i>considering h)</i>, future spectrum needs for lunar communications and systems, beyond those identified in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i>, which may be needed for communications between the Earth, lunar-orbiting spacecraft and the lunar surface;</p> <p>2 to study whether future radiocommunications in the vicinity of the Moon, as described in <i>considering h)</i>, can be accommodated within existing space radiocommunication services and whether the regulatory provisions described in the Radio Regulations are sufficient,</p> <p>...</p> <p style="text-align: center;"><i>invites the 2027 world radiocommunication conference</i></p> <p>to consider, based on the results of the studies referred to in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i> to 5, new or modified allocations and/or identifications in the SRS in the frequency ranges in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i> above, or portions thereof, for use in the vicinity of the Moon,</p> <p style="text-align: center;"><i>instructs the Director of the Radiocommunication Bureau</i></p> <p>to report to WRC-27 on the progress of the studies referred to in <i>invites the ITU Radiocommunication Sector 1 and 2</i> above,</p> <p style="text-align: center;"><i>invites a future competent world radiocommunication conference after WRC-27</i></p> <p>to consider, if necessary, appropriate regulatory actions based upon the studies called for in <i>invites the ITU Radiocommunication Sector 1 and 2</i> above.</p>	

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Topic	Responsible group	Action to be taken by the group	Contributing group
1.16		to consider studies on the technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in frequency bands allocated to the radio astronomy service on a primary basis globally, from aggregate radio-frequency interference caused by non-geostationary-satellite orbit systems, in accordance with Resolution 681 (WRC-23) ;	
<p>Resolution 681 (WRC-23)</p> <p>Studies of technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in radio astronomy service primary allocated frequency bands globally, from aggregate radio-frequency interference caused by systems in the non-geostationary-satellite orbit</p>	<p>WP 7D</p>	<p><i>considering</i></p> <p>...</p> <p><i>j)</i> that a small number of remote RAS stations are of the utmost importance as they are designed to make observations of significance, resulting in new knowledge of astronomical phenomena, which may require observations of objects not previously studied, or observing objects with increased precision;</p> <p><i>k)</i> that, for the purpose of this Resolution, the facilities which fall into the category defined in <i>considering j)</i> are:</p> <ul style="list-style-type: none"> – the Square Kilometre Array Observatory in South Africa; – the Atacama Large Millimeter/submillimeter Array (ALMA) in Chile; <p>...</p> <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on how the interference from unwanted emissions from a single non-GSO satellite system operating in the adjacent and nearby frequency bands in Table 1 affects the operation of RAS stations in frequency bands allocated to the RAS on a primary basis in Table 1;</p> <p>2 studies on how the aggregate interference from unwanted emissions from multiple non-GSO satellite systems operating in the adjacent and nearby frequency bands in Table 1 affect the operation of RAS stations in frequency bands allocated to the RAS on a primary basis in Table 1;</p> <p>3 studies on the possible recognition of the RQZs specified in <i>considering k)</i> above, based on their characteristics and existing ITU-R studies;</p> <p>4 studies on how the aggregate interference from single and multiple non-GSO satellite systems affects the operation of RAS stations in the RQZs specified in <i>considering k)</i>;</p> <p>5 studies on new coexistence measures between non-GSO satellite systems and RAS stations in the RQZs specified in <i>considering k)</i>;</p> <p>6 studies of methods to calculate the necessary separation distances between gateways of non-GSO systems operating in bands adjacent to or near RAS allocations and RAS stations protected by the RQZs specified in <i>considering k)</i>,</p>	<p>WP 1B</p> <p>WP 3J</p> <p>WP 3M</p> <p>WP 4A</p> <p>WP 4C</p> <p>WP 5A</p> <p>WP 5B</p> <p>WP 5D</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group																																
		<p><i>invites administrations</i></p> <p>to participate actively in the studies and provide the technical and operational characteristics of the systems involved and other information required for the studies by submitting contributions to the ITU-R,</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>1 to consider appropriate technical and/or regulatory measures based on the results of the studies mentioned in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 1</i>;</p> <p>2 to consider, if deemed appropriate, based on the studies mentioned in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 3, 4, 5 and 6</i>, potential solutions to characterize the RQZs in <i>considering k</i>) in the Radio Regulations and/or in a WRC Resolution,</p> <p><i>instructs the Secretary-General</i></p> <p>to bring this Resolution to the attention of COPUOS and other international and regional organizations concerned.</p> <p style="text-align: center;">TABLE 1</p> <p style="text-align: center;">RAS frequency bands to be studied and corresponding active services to be included</p> <table border="1" data-bbox="658 898 1912 1337"> <thead> <tr> <th data-bbox="658 898 884 986">Radio astronomy frequency band</th> <th data-bbox="884 898 1319 986">Active space service operating in adjacent or nearby frequency band</th> <th data-bbox="1319 898 1617 986">Active space service (space-to-Earth)</th> <th data-bbox="1617 898 1912 986">Scope</th> </tr> </thead> <tbody> <tr> <td data-bbox="658 986 884 1035">10.6-10.7 GHz</td> <td data-bbox="884 986 1319 1035">10.7-10.95 GHz</td> <td data-bbox="1319 986 1617 1035">FSS</td> <td data-bbox="1617 986 1912 1035"><i>Resolves etc. 1 and 2</i></td> </tr> <tr> <td data-bbox="658 1035 884 1085">42.5-43.5 GHz</td> <td data-bbox="884 1035 1319 1085">42-42.5 GHz</td> <td data-bbox="1319 1035 1617 1085">FSS</td> <td data-bbox="1617 1035 1912 1085"><i>Resolves etc. 2</i></td> </tr> <tr> <td data-bbox="658 1085 884 1134">76-77.5 GHz</td> <td data-bbox="884 1085 1319 1134">74-76 GHz</td> <td data-bbox="1319 1085 1617 1134">FSS, MSS</td> <td data-bbox="1617 1085 1912 1134"><i>Resolves etc. 2</i></td> </tr> <tr> <td data-bbox="658 1134 884 1184">94.1-95 GHz</td> <td data-bbox="884 1134 1319 1184">95-100 GHz</td> <td data-bbox="1319 1134 1617 1184">RNSS, MSS</td> <td data-bbox="1617 1134 1912 1184"><i>Resolves etc. 2</i></td> </tr> <tr> <td data-bbox="658 1184 884 1233">100-102 GHz</td> <td data-bbox="884 1184 1319 1233">95-100 GHz</td> <td data-bbox="1319 1184 1617 1233">RNSS, MSS</td> <td data-bbox="1617 1184 1912 1233"><i>Resolves etc. 1 and 2</i></td> </tr> <tr> <td data-bbox="658 1233 884 1283">114.25-116 GHz</td> <td data-bbox="884 1233 1319 1283">116-119.98 GHz</td> <td data-bbox="1319 1233 1617 1283">ISS</td> <td data-bbox="1617 1233 1912 1283"><i>Resolves etc. 1 and 2</i></td> </tr> <tr> <td data-bbox="658 1283 884 1332">130-134 GHz</td> <td data-bbox="884 1283 1319 1332">123-130 GHz</td> <td data-bbox="1319 1283 1617 1332">FSS, MSS, RNSS</td> <td data-bbox="1617 1283 1912 1332"><i>Resolves etc. 2</i></td> </tr> </tbody> </table>	Radio astronomy frequency band	Active space service operating in adjacent or nearby frequency band	Active space service (space-to-Earth)	Scope	10.6-10.7 GHz	10.7-10.95 GHz	FSS	<i>Resolves etc. 1 and 2</i>	42.5-43.5 GHz	42-42.5 GHz	FSS	<i>Resolves etc. 2</i>	76-77.5 GHz	74-76 GHz	FSS, MSS	<i>Resolves etc. 2</i>	94.1-95 GHz	95-100 GHz	RNSS, MSS	<i>Resolves etc. 2</i>	100-102 GHz	95-100 GHz	RNSS, MSS	<i>Resolves etc. 1 and 2</i>	114.25-116 GHz	116-119.98 GHz	ISS	<i>Resolves etc. 1 and 2</i>	130-134 GHz	123-130 GHz	FSS, MSS, RNSS	<i>Resolves etc. 2</i>	
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Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>1.17 to 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, in accordance with Resolution 682 (WRC-23);</p>			
<p>Resolution 682 (WRC-23) Consideration of regulatory provisions and potential primary allocations to the meteorological aids service (space weather) to accommodate receive-only space weather sensor applications in the Radio Regulations</p>	<p>WP 7C</p>	<p><i>noting</i></p> <p>a) that Resolution 675 (WRC-23):</p> <ul style="list-style-type: none"> – defines space weather; – designates space weather sensors to the meteorological aids service (MetAids) in the subset MetAids (space weather); ... <p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 studies on spectrum needs and appropriate protection criteria for receive-only space weather sensors, as well as system characteristics, as appropriate, taking into account <i>noting a)</i>;</p> <p>2 sharing and compatibility studies pertaining to potential new primary allocations to MetAids (space weather) in the following frequency bands for receive-only sensors, taking into account <i>resolves 2)</i>:</p> <ul style="list-style-type: none"> – 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; <p>3 studies on possible regulatory provisions of the Radio Regulations to accommodate the possibility for an administration that desires to notify a receive-only space weather sensor station to be included in the Master International Frequency Register,</p> <p><i>further resolves</i></p> <p>1 that no notification of frequency assignments to a station used for space weather observation be made by administrations under MetAids (space weather) until WRC-27 introduces the corresponding allocations in Article 5;</p> <p>2 that any possible new primary MetAids (space weather) allocations to be made under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 2</i> shall not claim protection from, nor constrain the future development of, incumbent services in these frequency bands or in adjacent bands,</p> <p>...</p>	<p>WP 3L WP 3M WP 4A WP 4C WP 5A WP 5B WP 5C WP 5D WP 6A WP 7B WP 7D</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group																					
		<p><i>invites the 2027 world radiocommunication conference</i></p> <p>to take appropriate actions, including potential new primary receive-only MetAids (space weather) allocations, based on the results of the studies under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i>, taking into account <i>resolves 2</i>,</p> <p>...</p>																						
<p>1.18 to 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, in accordance with Resolution 712 (WRC-23);</p>																								
<p>Resolution 712 (WRC-23)</p> <p>Studies on compatibility between the Earth exploration-satellite service (passive), the radio astronomy service in certain bands above 76 GHz, and active services in adjacent and nearby frequency bands</p>	<p>WP 7C (<i>resolves 1</i>)</p> <p>WP 7D (<i>resolves 2</i>)</p> <p>(<u>Note</u>: the draft CPM text prepared by WP 7C and WP 7D will be provided by WP 7C)</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>1 compatibility studies between the EESS (passive) and the corresponding active services in adjacent frequency bands as listed in Table 1 below:</p> <p style="text-align: center;">TABLE 1</p> <p style="text-align: center;">EESS (passive) frequency bands to be studied and corresponding active services to be included</p> <table border="1" data-bbox="701 834 1868 1278"> <thead> <tr> <th data-bbox="701 834 927 916">EESS (passive) frequency band</th> <th data-bbox="927 834 1173 916">Active service frequency band</th> <th data-bbox="1173 834 1868 916">Active service</th> </tr> </thead> <tbody> <tr> <td data-bbox="701 916 927 997" rowspan="2">86-92 GHz</td> <td data-bbox="927 916 1173 959">81-86 GHz</td> <td data-bbox="1173 916 1868 959">Fixed-satellite service (FSS) (Earth-to-space), mobile service (MS)</td> </tr> <tr> <td data-bbox="927 959 1173 997">92-94 GHz</td> <td data-bbox="1173 959 1868 997">MS, radiolocation service (RLS)</td> </tr> <tr> <td data-bbox="701 997 927 1046">114.25-116 GHz</td> <td data-bbox="927 997 1173 1046">111.8-114.25 GHz</td> <td data-bbox="1173 997 1868 1046">Fixed service (FS), MS</td> </tr> <tr> <td data-bbox="701 1046 927 1161" rowspan="2">164-167 GHz</td> <td data-bbox="927 1046 1173 1118">158.5-164 GHz</td> <td data-bbox="1173 1046 1868 1118">FS, FSS (space-to-Earth), MS, mobile-satellite service (MSS) (space-to-Earth)</td> </tr> <tr> <td data-bbox="927 1118 1173 1161">167-174.5 GHz</td> <td data-bbox="1173 1118 1868 1161">FS, FSS (space-to-Earth), inter-satellite service (ISS), MS</td> </tr> <tr> <td data-bbox="701 1161 927 1233" rowspan="2">200-209 GHz</td> <td data-bbox="927 1161 1173 1233">191.8-200 GHz</td> <td data-bbox="1173 1161 1868 1233">FS, ISS, MS, MSS, radionavigation service (RNS), radionavigation-satellite service (RNSS)</td> </tr> <tr> <td data-bbox="927 1233 1173 1278">209-217 GHz</td> <td data-bbox="1173 1233 1868 1278">FS, FSS (Earth-to-space), MS</td> </tr> </tbody> </table>	EESS (passive) frequency band	Active service frequency band	Active service	86-92 GHz	81-86 GHz	Fixed-satellite service (FSS) (Earth-to-space), mobile service (MS)	92-94 GHz	MS, radiolocation service (RLS)	114.25-116 GHz	111.8-114.25 GHz	Fixed service (FS), MS	164-167 GHz	158.5-164 GHz	FS, FSS (space-to-Earth), MS, mobile-satellite service (MSS) (space-to-Earth)	167-174.5 GHz	FS, FSS (space-to-Earth), inter-satellite service (ISS), MS	200-209 GHz	191.8-200 GHz	FS, ISS, MS, MSS, radionavigation service (RNS), radionavigation-satellite service (RNSS)	209-217 GHz	FS, FSS (Earth-to-space), MS	<p>WP 3J*</p> <p>WP 3M*</p> <p>WP 4A</p> <p>WP 4C</p> <p>WP 5A</p> <p>WP 5B</p> <p>WP 5C</p>
EESS (passive) frequency band	Active service frequency band	Active service																						
86-92 GHz	81-86 GHz	Fixed-satellite service (FSS) (Earth-to-space), mobile service (MS)																						
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* Preparatory work in support of this agenda item will require efforts to extend the applicability of current radiowave propagation prediction methods for sharing and compatibility studies in frequency bands up to 235 GHz. Membership is encouraged to support these critical activities for completion by 2025 in Working Parties 3J and 3M.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group															
		<p>2 compatibility studies between the RAS and the active satellite services in certain adjacent and nearby frequency bands listed in Table 2 below with a view to setting the relevant threshold levels for unwanted emissions from any GSO and non-GSO space stations and revising and updating Resolution 739 (Rev.WRC-19) accordingly:</p> <p style="text-align: center;">TABLE 2</p> <p style="text-align: center;">RAS frequency bands to be studied and corresponding active services to be included</p> <table border="1" data-bbox="703 571 1868 850"> <thead> <tr> <th data-bbox="703 571 969 651">Radio astronomy frequency band</th> <th data-bbox="969 571 1249 651">Active satellite service frequency band</th> <th data-bbox="1249 571 1868 651">Active satellite service (space-to-Earth)</th> </tr> </thead> <tbody> <tr> <td data-bbox="703 651 969 722">76-81 GHz</td> <td data-bbox="969 651 1249 722">71-76 GHz</td> <td data-bbox="1249 651 1868 722">Fixed-satellite service (FSS), mobile-satellite service (MSS), broadcasting-satellite service (BSS)</td> </tr> <tr> <td data-bbox="703 722 969 762">130-134 GHz</td> <td data-bbox="969 722 1249 762">123-130 GHz</td> <td data-bbox="1249 722 1868 762">FSS, MSS, radionavigation-satellite service (RNSS)</td> </tr> <tr> <td data-bbox="703 762 969 802">164-167 GHz</td> <td data-bbox="969 762 1249 802">167-174.5 GHz</td> <td data-bbox="1249 762 1868 802">FSS</td> </tr> <tr> <td data-bbox="703 802 969 850">226-231.5 GHz</td> <td data-bbox="969 802 1249 850">232-235 GHz</td> <td data-bbox="1249 802 1868 850">FSS</td> </tr> </tbody> </table> <p>...</p> <p style="text-align: center;"><i>invites the 2027 world radiocommunication conference</i></p> <p>1 to determine, based on the results of studies, any required regulatory measures regarding the protection of the EESS (passive) in the frequency bands listed in Table 1 above from unwanted emissions of active services and update Resolution 750 (Rev.WRC-19) accordingly;</p> <p>2 to determine, based on the results of studies, any required regulatory measures regarding the protection of the RAS in the frequency bands listed in Table 2 above and update Resolution 739 (Rev.WRC-19) accordingly,</p> <p style="text-align: center;"><i>instructs the Secretary-General</i></p> <p>to bring this Resolution to the attention of the international and regional organizations concerned.</p>	Radio astronomy frequency band	Active satellite service frequency band	Active satellite service (space-to-Earth)	76-81 GHz	71-76 GHz	Fixed-satellite service (FSS), mobile-satellite service (MSS), broadcasting-satellite service (BSS)	130-134 GHz	123-130 GHz	FSS, MSS, radionavigation-satellite service (RNSS)	164-167 GHz	167-174.5 GHz	FSS	226-231.5 GHz	232-235 GHz	FSS	
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226-231.5 GHz	232-235 GHz	FSS																

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.19		to 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, in accordance with Resolution 674 (WRC-23) ;	
Resolution 674 (WRC-23) Studies on possible allocations to Earth exploration-satellite service (passive) in the bands 4 200-4 400 MHz and 8 400-8 500 MHz	WP 7C	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference</i></p> <p>sharing and compatibility studies to determine the possibility of a future allocation to the EESS (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz,</p> <p>...</p> <p><i>invites the 2027 world radiocommunication conference</i></p> <p>to examine the results of these studies with a view to considering a new primary allocation in all Regions to the EESS (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, without protection from existing services in these frequency bands and in adjacent bands.</p>	WP 3M WP 4A WP 5A WP 5B WP 5C WP 5D WP 7B

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
2		to examine the revised ITU Radiocommunication Sector Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with the <i>further resolves</i> of Resolution 27 (Rev.WRC-19), and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in the <i>resolves</i> of that Resolution;	
Resolution 27 (Rev.WRC-19) Use of incorporation by reference in the Radio Regulations	CPM27-2	<p><i>resolves</i></p> <p>1 that, for the purposes of the Radio Regulations, the term “incorporation by reference” shall only apply to those references intended to be mandatory;</p> <p>2 that the text incorporated by reference shall have the same treaty status as the Radio Regulations themselves;</p> <p>3 that the reference shall be explicit, specifying the specific part of the text (if appropriate) and the version or issue number;</p> <p>4 that, where a mandatory reference to an ITU-R Recommendation, or parts thereof, is included in the <i>resolves</i> of a WRC Resolution, which is itself cited in a provision or footnote of the Radio Regulations using mandatory language (i.e. “shall”), the ITU-R Recommendation or parts thereof shall also be considered as incorporated by reference;</p> <p>5 that texts which are of a non-mandatory nature or which refer to other texts of a non-mandatory nature shall not be considered for incorporation by reference;</p> <p>6 that, when considering the introduction of new cases of incorporation by reference, such incorporation shall be kept to a minimum and made by applying the following criteria:</p> <p>6.1 only texts which are relevant to a specific WRC agenda item may be considered;</p> <p>6.2 where the relevant texts are brief, the referenced material should be placed in the body of the Radio Regulations rather than using incorporation by reference;</p> <p>6.3 the guidance contained in Annex 1 to this Resolution shall be applied in order to ensure that the correct method of reference for the intended purpose is employed;</p> <p>7 that the text to be incorporated by reference shall be submitted for adoption by a competent WRC and the procedure described in Annex 2 to this Resolution shall be applied for approving the incorporation by reference of ITU-R Recommendations or parts thereof;</p> <p>8 that existing references to ITU-R Recommendations shall be reviewed to clarify whether the reference is mandatory or non-mandatory in accordance with Annex 1 to this Resolution;</p> <p>9 that ITU-R Recommendations, or parts thereof, incorporated by reference at the conclusion of each WRC, and a cross-reference list of the regulatory provisions, including footnotes and Resolutions, incorporating such ITU-R Recommendations by reference, shall be collated and published in a volume of the Radio Regulations (see Annex 2 to this Resolution);</p>	-

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		<p>10 that if, between WRCs, a text incorporated by reference (e.g. an ITU-R Recommendation) is updated, the reference in the Radio Regulations shall continue to apply to the earlier version incorporated by reference until such time as a competent WRC agrees to incorporate the new version; the mechanism for considering such a step is given in the <i>further resolves</i> part of this Resolution,</p> <p style="padding-left: 40px;"><i>further resolves</i></p> <p>1 that each RA shall communicate to the next WRC a list of the ITU-R Recommendations containing text incorporated by reference in the Radio Regulations which have been revised and approved during the elapsed study period;</p> <p>2 that, on this basis, WRC is invited to examine those revised ITU-R Recommendations, and decide whether or not to update the corresponding references in the Radio Regulations;</p> <p>3 that, if WRC decides not to update the corresponding references, the currently referenced version shall be maintained in the Radio Regulations;</p> <p>4 to invite future WRCs to include a standing agenda item on examination of the revised ITU-R Recommendations in accordance with <i>further resolves</i> 1 and 2 of this Resolution,</p> <p style="padding-left: 40px;"><i>instructs the Director of the Radiocommunication Bureau</i></p> <p>1 to bring this Resolution to the attention of RA and the radiocommunication study groups;</p> <p>2 to identify the provisions and footnotes of the Radio Regulations containing references to ITU-R Recommendations and make suggestions on any further action to the second session of the Conference Preparatory Meeting (CPM) for its consideration and inclusion in the CPM Report;</p> <p>3 to identify the provisions and footnotes of the Radio Regulations containing references to WRC Resolutions that contain references to ITU-R Recommendations, and make suggestions on any further action to the second session of CPM for its consideration and inclusion in the CPM Report;</p> <p>4 to provide the second session of CPM with a list, for inclusion in the CPM Report, of those ITU-R Recommendations containing texts incorporated by reference that have been revised or approved since the previous WRC, or that may be revised in time for the next WRC,</p> <p style="padding-left: 40px;"><i>invites administrations</i></p> <p>1 to submit proposals to future conferences, taking into account the CPM Report, in order to clarify the status of references, where ambiguities remain regarding the mandatory or non-mandatory status of the references in question, with a view to amending those references:</p> <p>i) that appear to be of a mandatory nature, identifying such references as being incorporated by reference by using clear linking language in accordance with Annex 1 to this Resolution;</p>	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		ii) that are of a non-mandatory character, so as to refer to “the most recent version” of the Recommendations; 2 to participate actively in the work of the radiocommunication study groups and the RA on revision of those Recommendations to which mandatory references are made in the Radio Regulations; 3 to examine any indicated revisions of ITU-R Recommendations containing text incorporated by reference and to prepare proposals on possible updating of relevant references in the Radio Regulations.	
3		to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;	
4		in accordance with Resolution 95 (Rev.WRC-19) , to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;	
Resolution 95 (Rev.WRC-19) General review of the Resolutions and Recommendations of world administrative radio conferences and world radiocommunication conferences	CPM27-2	<i>resolves</i> that recommended agendas for future WRCs should include a standing agenda item to review the Resolutions and Recommendations of previous conferences that are not related to any other agenda item of the conference with a view to: – abrogating those Resolutions and Recommendations that have served their purpose or have become no longer necessary; – reviewing the need for those Resolutions and Recommendations, or parts thereof, requesting ITU Radiocommunication Sector (ITU-R) studies on which no progress has been made during the last two periods between conferences; – updating and modifying Resolutions and Recommendations, or parts thereof, that have become out of date, and to correct obvious omissions, inconsistencies, ambiguities or editorial errors and effect any necessary alignment, <i>invites future competent world radiocommunication conferences</i> 1 to review the Resolutions and Recommendations of previous conferences that are related to the agenda items of the conference, other than the standing agenda item mentioned in resolves, under those specific agenda items, with a view to their possible revision, replacement or abrogation, and to take appropriate action; 2 at the beginning of the conference, to determine which committee within the conference has the primary responsibility to review each of the Resolutions and Recommendations of previous conferences, <i>instructs the Director of the Radiocommunication Bureau</i> 1 to conduct a general review of the Resolutions and Recommendations of previous conferences and, after consultation with the Radiocommunication Advisory Group and the Chairmen and Vice-Chairmen of the radiocommunication study groups, submit a report to the second session of the Conference Preparatory Meeting	–

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		<p>(CPM) in respect of <i>resolves</i> and <i>invites future competent world radiocommunication conferences</i> 1, including an indication of any associated agenda items;</p> <p>2 to include in the above report, with the cooperation of the chairmen of the radiocommunication study groups, the progress reports of ITU-R studies on the issues which have been requested by the Resolutions and Recommendations of previous conferences, but which are not placed on the agendas of the forthcoming two conferences,</p> <p><i>invites administrations</i></p> <p>to submit contributions on the implementation of this Resolution to the second session of CPM and the conference,</p> <p><i>invites the Conference Preparatory Meeting</i></p> <p>to include, in its Report, the results of the general review of the Resolutions and Recommendations of previous conferences, based on the contributions by administrations to the second session of CPM and the above-mentioned Report of the Director, in order to facilitate the follow-up by the conference.</p>	
5		to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the ITU Convention;	
6		to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
7		to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution 86 (Rev.WRC-07) , in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;	
Resolution 86 (WRC-07) Implementation of Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference	WP 4A	<p><i>resolves to invite future world radiocommunication conferences</i></p> <p>1 to consider any proposals which deal with deficiencies and improvements in the advance publication, coordination, notification and recording procedures of the Radio Regulations for frequency assignments pertaining to space services which have either been identified by the Board and included in the Rules of Procedure or which have been identified by administrations or by the Radiocommunication Bureau, as appropriate;</p> <p>2 to ensure that these procedures, and the related appendices of the Radio Regulations reflect the latest technologies, as far as possible, <i>invites administrations</i></p> <p>to consider, in preparing for PP-10, appropriate action with regard to Resolution 86 (Rev. Marrakesh, 2002).</p>	-

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>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-23);</p>			
<p>Resolution 26 (Rev.WRC-23) Footnotes to the Table of Frequency Allocations in Article 5 of the Radio Regulations</p>	<p>CPM27-2 for information only</p>	<p><i>resolves</i></p> <p>1 that, wherever possible, footnotes to the Table of Frequency Allocations should be confined to altering, limiting or otherwise changing the relevant allocations rather than dealing with the operation of stations, assignment of frequencies or other matters;</p> <p>2 that the Table of Frequency Allocations should include only those footnotes which have international implications for the use of the radio-frequency spectrum;</p> <p>3 that new footnotes to the Table of Frequency Allocations should only be adopted in order to:</p> <p>a) achieve flexibility in the Table of Frequency Allocations;</p> <p>b) protect the relevant allocations in the body of the Table and in other footnotes in accordance with Section II of Article 5;</p> <p>c) introduce either transitional or permanent restrictions on a new service to achieve compatibility; or</p> <p>d) meet the specific requirements of a country or area when it is impracticable to satisfy such needs otherwise within the Table of Frequency Allocations;</p> <p>4 that footnotes serving a common purpose should be in a common format, and, where possible, be grouped into a single footnote with appropriate references to the relevant frequency bands,</p> <p><i>further resolves</i></p> <p>1 that any addition of a new footnote or modification of an existing footnote should be considered by a WRC only when:</p> <p>a) the agenda of that WRC explicitly includes the frequency band to which the proposed additional or modified footnote relates; or</p> <p>b) the frequency bands to which the desired additions or modifications of the footnote belong are considered during WRC and WRC decides to make a change in those frequency bands; or</p> <p>c) the addition or modification of footnotes is specifically included in the agenda of WRC as a result of the consideration of proposals submitted by one or more interested administration(s);</p>	<p>–</p>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		<p>2 that recommended agendas for future WRCs should include a standing agenda item which would allow for the consideration of proposals by administrations for deletion of country footnotes, or country names in footnotes, if no longer required¹;</p> <p>3 that in cases not covered by <i>further resolves</i> 1 and 2, proposals for new footnotes or modification of existing footnotes could exceptionally be considered by a WRC if they concern corrections of obvious omissions, inconsistencies, ambiguities or editorial errors and have been submitted to ITU as stipulated in No. 40 of the General Rules of conferences, assemblies and meetings of the Union, <i>urges administrations</i></p> <p>1 to review footnotes periodically and to propose the deletion of their country footnotes or of their country names from footnotes, as appropriate;</p> <p>2 to take account of <i>further resolves</i> above in making proposals to WRCs in relation to footnotes or country names in footnotes;</p> <p>3 to submit their proposals to a WRC in the cases addressed by <i>further resolves</i> 1, under the relevant agenda items of the conference, as appropriate (see Section B of Annex 1 to this Resolution);</p> <p>4 to submit their proposals under the WRC standing agenda item described in <i>further resolves</i> 2 to the second session of the corresponding conference preparatory meeting for information only, if available, to allow for discussion with affected administrations.</p>	

¹ See also Annex 1 to this Resolution.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
9 9.1		to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the ITU Convention: on the activities of the ITU Radiocommunication Sector since WRC-23 ¹ ;	
–	–	–	–
9.2		on any difficulties or inconsistencies encountered in the application of the Radio Regulations ² ; and	
–	–	–	–
9.3		on action in response to Resolution 80 (Rev.WRC-07) ;	
Resolution 80 (Rev.WRC-07) Due diligence in applying the principles embodied in the Constitution	–	<p><i>resolves</i></p> <p>1 to instruct the Radiocommunication Sector, in accordance with No. 1 of Article 12 of the Constitution, to carry out studies on procedures for measurement and analysis of the application of the basic principles contained in Article 44 of the Constitution;</p> <p>2 to instruct the RRB to consider and review possible draft recommendations and draft provisions linking the formal notification, coordination and registration procedures with the principles contained in Article 44 of the Constitution and No. 0.3 of the Preamble to the Radio Regulations, and to report to each future World Radiocommunication Conference with regard to this Resolution;</p> <p>3 to instruct the Director of the Radiocommunication Bureau to submit to each future World Radiocommunication Conference a detailed progress report on the action taken on this Resolution,</p>	WP 4A

¹ This WRC's standing agenda sub-item is strictly limited to the Report of the Director on ITU-R activities since the last WRC; and any topics outside 1.1-1.19 as listed above shall be strictly avoided, particularly those topics which require any changes/amendments to the Radio Regulations.

² This WRC's standing agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>10 to 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 and Resolution 804 (Rev.WRC-23),</p>			
<p>Resolution 804 (Rev.WRC-23) Principles for establishing agendas for world radiocommunication conferences</p>	<p>CPM27-2 for information only</p>	<p><i>resolves</i></p> <p>1 that recommended agendas for future WRCs shall include a standing agenda item for the establishment of preliminary agendas for subsequent WRCs;</p> <p>2 that the course of action outlined in this Resolution needs to be taken into account in the preparation of and decision on the agenda of future WRCs;</p> <p>3 that the principles in Annex 1 to this Resolution need to be taken into account when developing agendas for future WRCs;</p> <p>4 that the guidance given in Annex 2 to this Resolution needs to be used in developing agenda items for future WRCs and their supporting resolutions;</p> <p>5 to encourage administrations and regional telecommunication organizations to submit, to the extent practicable, information on possible items/topics for the agenda of future WRCs under the WRC standing agenda item mentioned in <i>resolves</i> 1 to the second session of CPM,</p> <p><i>invites administrations</i></p> <p>1 to use the guidance in Annex 2 to this Resolution in developing agenda items for future WRCs and their supporting resolutions;</p> <p>2 to use the template in Annex 3 to this Resolution in proposing agenda items for future WRCs,</p> <p><i>further invites administrations</i></p> <p>to participate in regional activities for the preparation of agendas for future WRCs,</p> <p><i>invites the Radiocommunication Bureau</i></p> <p>to review and provide feedback, to the extent possible, when consulted by administrations on the development of items for the agendas of future WRCs, seeking consistency with relevant provisions of the Radio Regulations and practices of the Bureau.</p>	<p>–</p>

ANNEX 8**

Allocation of ITU-R preparatory work for WRC-31

The attached Table contains allocation of ITU-R preparatory work for WRC-31 preliminary agenda items, as proposed in Resolution **814 (WRC-23)**. It includes entries for the identification of the ITU-R “responsible groups” and “contributing groups” for the WRC-31 agenda items.

NOTE 1 – The ITU-R Working Parties indicated in the following Table have been identified based on the ITU-R Study Group structure contained in Document [CPM27-1/1](#).

NOTE 2 – Taking into account the provisional nature of the agenda for WRC-31, no contributing groups have been identified, excepting for item 2.14.

** The texts of the resolutions included in this Annex have been copied from the WRC-23 provisional Final Acts. The COM6 numbers of the new WRC-23 resolutions have been replaced by the provisional resolution numbers provided in Annex 3 to this Administrative Circular.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
1		to take appropriate action in respect of those urgent issues that were specifically requested by WRC-27;	
2		on the basis of proposals from administrations and the Report of the Conference Preparatory Meeting, and taking account of the results of WRC-27, to consider and take appropriate action in respect of the following items:	
2.1		to consider potential new allocations to the fixed, mobile, radiolocation, amateur, amateur-satellite, radio astronomy, Earth exploration-satellite (passive and active) and space research (passive) services in the frequency range 275-325 GHz in the Table of Frequency Allocations of the Radio Regulations, with the consequential update of Nos. 5.149, 5.340, 5.564A and 5.565 , in accordance with Resolution 721 (WRC-23) ;	
<p>Resolution 721 (WRC-23) Studies on potential new allocations to fixed, mobile, radiolocation, amateur, amateur-satellite, radio astronomy, Earth exploration-satellite (passive and active) and space research (passive) services in the frequency range 275-325 GHz with the consequential update of Nos. 5.149, 5.340, 5.564A and 5.565</p>	<p>WP 1A</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on the spectrum needs for the fixed, mobile, radiolocation, amateur, amateur-satellite, radio astronomy, Earth exploration-satellite (passive and active) and space research (passive) services in the frequency range 275-325 GHz;</p> <p>2 studies on sharing and compatibility between services referenced in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 1</i>;</p> <p>3 studies on possible new allocations to services referenced in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 1</i>, while ensuring the protection of passive services in the frequency range 275-325 GHz and adjacent frequency bands, taking into account the frequency bands identified in Nos. 5.564A and 5.565, and the results of the studies under <i>resolves to invites the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 1 and 2</i>, <i>invites the 2031 world radiocommunication conference</i></p> <p>based on the results of the studies, to consider potential new allocations in the frequency range 275-325 GHz for radiocommunication services referenced in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 1</i> and update Nos. 5.149, 5.340, 5.564A and 5.565, as appropriate,</p> <p>...</p>	<p>–</p>

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.2 [to consider the possible [frequency bands] for [non-beam and beam] wireless power transmission to avoid harmful interference to the radiocommunication services caused by wireless power transmission, in accordance with Resolution 910 (WRC-23)];			
Resolution 910 (WRC-23) [Studies on the possible [frequency bands] for [non-beam and beam] wireless power transmission (WPT) to avoid harmful interference to the radiocommunication services caused by WPT] ¹	WP 1A	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 technical, operational and impact studies, taking into account the results of already available studies, to consider suitable frequency ranges for harmonized WPT operations;</p> <p>2 consideration of spectrum matters necessary to ensure the protection of radiocommunication services and the radio astronomy service to which the frequency bands are allocated on a primary and secondary basis, as well as services in the adjacent bands, and those affected by the harmonics,</p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of ITU-R studies, the possible frequency bands for WPT on the basis of avoiding harmful interference to the radiocommunication services caused by WPT.</p>	–

¹ Further discussion is needed on the scope of this agenda item.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.3		to consider the use of aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service (Earth-to-space) in the frequency band 12.75-13.25 GHz, in accordance with Resolution 133 (WRC-23) ;	
<p>Resolution 133 (WRC-23) Study of the possible use of the frequency band 12.75-13.25 GHz by aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service (Earth-to-space)</p>	<p>WP 4A</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on the technical and operational characteristics of A-ESIMs and M-ESIMs planning to communicate with the non-GSO space stations in the FSS in the frequency band 12.75-13.25 GHz (Earth-to-space);</p> <p>2 studies on sharing and compatibility between A-ESIMs and M-ESIMs communicating with non-GSO space stations in the FSS and the current and planned stations of existing services with allocations in the frequency band 12.75-13.25 GHz, ensuring that ESIMs will not call for further protection or cause more interference than existing typical earth stations;</p> <p>3 the development of the technical conditions and regulatory provisions for the operation of A-ESIMs and M-ESIMs communicating with non-GSO space stations in the FSS that operate in the frequency band 12.75-13.25 GHz (Earth-to-space), taking into account the results of the studies outlined in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i> 1 and 2, while ensuring the protection of incumbent services;</p> <p>4 sharing and compatibility studies for communications between non-GSO space stations in the FSS and ESIMs with respect to the EESS (passive) allocated in the adjacent frequency band referred to in <i>recognizing f</i>);</p> <p>5 studies on the development of a new Recommendation for the network control and monitoring centre functionality for ESIM operation;</p> <p>6 studies on the responsibility of the entities involved in the operation of the A-ESIMs and M-ESIMs addressed by this Resolution,</p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider the results of the above-mentioned studies and to adopt the necessary measures accordingly.</p>	<p>–</p>

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.4		to consider, based on the results of ITU Radiocommunication Sector studies, support for inter-satellite service allocations in the frequency bands 3 700-4 200 MHz and 5 925-6 425 MHz, and associated regulatory provisions, to enable links between non-geostationary orbit satellites and geostationary orbit satellites, in accordance with Resolution 683 (WRC-23) ;	
<p>Resolution 683 (WRC-23) Study of technical and operational issues and regulatory provisions to support inter-satellite service transmissions in the frequency bands 3 700-4 200 MHz and 5 925-6 425 MHz for non-geostationary-satellite space stations communicating with geostationary-satellite space stations</p>	WP 4A	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on spectrum requirements, technical and operational characteristics, and sharing and compatibility, with incumbent [*], **, including secondary,] services, taking into account <i>noting a) to i)</i>, for the non-GSO space stations that operate or plan to operate ISS links with GSO FSS networks in the following frequency bands:</p> <p>a) in the Earth-to-space direction in the frequency band 5 925-6 425 MHz, for transmissions from non-GSO user space stations operating at lower orbital altitudes, in communication with GSO FSS service provider space stations; and</p> <p>b) in the space-to-Earth direction in the frequency band 3 700-4 200 MHz, for transmissions from GSO FSS service provider space stations, toward non-GSO user space stations;</p> <p>2 to develop technical conditions and regulatory provisions to ensure protection of other services allocated in those frequency bands for the operation of ISS links taking into account the results of the studies called for in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 1 above,</i></p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of ITU-R studies, to support ISS allocations in the frequency bands 3 700-4 200 MHz and 5 925-6 425 MHz, and associated regulatory provisions, to enable links between non-GSO and GSO satellites.</p>	-

[* This Region 1 allocation for fixed and mobile services is pending the WRC-23 outcome, and this recognizing further should be revised or removed based on the conclusion of WRC-23 agenda item 1.2/1.3.]

[** These Region 2 identifications for IMT are pending the WRC-23 outcome, and this recognizing further should be revised or removed based on the conclusion of WRC-23 agenda item 1.2.]

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
<p>2.5 to consider a possible primary allocation in the frequency bands [694-960 MHz, or parts thereof, in Region 1], 890-942 MHz, or parts thereof, in Region 2, and [3 400-3 700 MHz, or parts thereof, in Region 3] to the aeronautical mobile service for the use of International Mobile Telecommunications (IMT) user equipment in terrestrial IMT networks by non-safety applications, in accordance with Resolution 251 (Rev.WRC-23);</p>			
<p>Resolution 251 (Rev.WRC-23) Studies to consider a possible primary allocation in the frequency bands [694-960 MHz, or parts thereof, in Region 1], 890-942 MHz, or parts thereof, in Region 2, and [3 400-3 700 MHz, or parts thereof, in Region 3] to the aeronautical mobile service for the use of International Mobile Telecommunications (IMT) user equipment in terrestrial IMT networks by non-safety applications*</p>	<p>WP 5D</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <ol style="list-style-type: none"> 1 assessment of relevant AMS scenarios for connectivity for airborne user equipment in IMT networks to be addressed in compatibility and sharing studies; 2 identification of the relevant technical parameters associated with the aeronautical mobile systems to be used for studies; 3 sharing and compatibility studies with existing incumbent services, including in-band and adjacent frequency bands and between neighbouring Regions, to determine the suitability of new primary allocations of the following frequency bands to the AMS, in the countries for which there is an IMT identification, for the use of IMT user equipment by non-safety applications: <ul style="list-style-type: none"> – [694-960 MHz, or parts thereof, in Region 1]; – 890-942 MHz, or parts thereof, in Region 2; – [3 400-3 700 MHz, or parts thereof, in Region 3], ... <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on results of studies, possible allocations on a primary basis of all or part of the frequency bands listed in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i> 3 to the AMS, in the countries for which there is an IMT identification, for the use of IMT user equipment in terrestrial IMT networks by non-safety applications, and/or any other regulatory provisions.</p>	<p>–</p>

* The appearance of square brackets around certain frequency bands in this Resolution is understood to mean that WRC-27 will consider and review the inclusion of these frequency bands with square brackets and decide, as appropriate.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.6		to consider the identification of the frequency bands [102-109.5 GHz, 151.5-164 GHz, 167-174.8 GHz, 209-226 GHz and 252-275 GHz] for International Mobile Telecommunications, in accordance with Resolution 255 (WRC-23);	
<p>Resolution 255 (WRC-23) Studies on frequency-related matters for International Mobile Telecommunications (IMT) identification in the frequency bands [102-109.5 GHz, 151.5-164 GHz, 167-174.8 GHz, 209-226 GHz and 252-275 GHz] for the future development of IMT*</p>	<p>WP 5D**</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 the appropriate studies to determine the spectrum needs for the terrestrial component of IMT in the frequency bands listed in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 2</i>, taking into account:</p> <ul style="list-style-type: none"> – technical and operational characteristics of terrestrial IMT systems that would operate in these frequency bands, including the evolution of IMT through advances in technology and spectrally efficient techniques; – the deployment scenarios envisaged for IMT-2030 systems and the related requirements of high data traffic, such as in dense urban areas and/or at peak times; – the needs of developing countries and the time-frame in which spectrum would be needed; <p>2 the appropriate sharing and compatibility¹ studies, taking into account the protection of services to which the band is allocated on a primary basis for the following frequency bands:</p> <ul style="list-style-type: none"> – [102-109.5 GHz, 151.5-164 GHz, 167-174.8 GHz, 209-226 GHz and 252-275 GHz], ... <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, the identification of frequency bands for the terrestrial component of IMT; the bands to be considered being limited to part or all of the bands listed in <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference 2</i>.</p>	<p>–</p>

* The appearance of square brackets around certain frequency bands in this Resolution is understood to mean that WRC-27 will consider and review the inclusion of these frequency bands with square brackets and decide, as appropriate.

** Preparatory work in support of this preliminary agenda item will require extensive research, measurement, and model development activities to extend the applicability of radiowave propagation prediction methods for sharing and compatibility studies in frequency bands up to 275 GHz. Membership is encouraged to support these activities within Working Parties 3J and 3K as it is essential that this work should start within the 2023-2027 study period.

¹ Including studies with respect to services in adjacent bands, as appropriate.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.7 to consider improving the utilization of VHF maritime radiocommunication, in accordance with Resolution 363 (Rev.WRC-23) ;			
<p>Resolution 363 (Rev.WRC-23) Improving the utilization of the VHF maritime mobile band</p>	<p>WP 5B</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on sharing and compatibility with incumbent services that are allocated on a primary basis in the same and adjacent frequency bands and studies on spectrum needs, transitional arrangements and possible changes to the VHF maritime mobile band, in order to advance digital voice and data technologies in the MMS, taking into account <i>recognizing b) and c)</i>;</p> <p>2 compatibility studies, limited to frequencies identified in Appendix 18 for VDES, for a new allocation of the maritime radio navigation service under Article 5 and within the existing MMS to implement R-Mode,</p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>1 to consider, based on the results of studies, and within the Radio Regulations, excluding new allocations under Article 5, possible regulatory changes to advance digital voice and data technologies in the MMS within the VHF maritime mobile band;</p> <p>2 to consider, based on the results of studies, possible revisions to the Radio Regulations, including new allocations under Article 5, limited to frequencies identified in Appendix 18 for VDES, for implementation of R-Mode as a new maritime radionavigation service,</p> <p>...</p>	<p>–</p>
2.8 to consider improving the utilization and channelization of maritime radiocommunication in the MF and HF bands, including potential revisions of Article 52 and Appendix 17 , in accordance with Resolution 366 (WRC-23) ;			
<p>Resolution 366 (WRC-23) Improving the utilization and channelization of maritime radiocommunication in the MF and HF bands, including potential revisions to Article 52 and Appendix 17</p>	<p>WP 5B</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>studies on possible revisions to the Article 52 and Appendix 17 channel plans to identify additional working channels on an international basis to improve the use of maritime radiocommunication in the MF and HF bands,</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, possible revisions to the Article 52 and Appendix 17 channel plans in the maritime mobile MF and HF bands to improve use and efficiency,</p> <p>...</p>	<p>–</p>

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.9 to consider possible allocations to the radionavigation-satellite service (space-to-Earth) in the frequency bands [5 030-5 150 MHz and 5 150-5 250 MHz] or parts thereof in accordance with Resolution 684 (WRC-23) ;			
<p>Resolution 684 (WRC-23) Studies on possible new allocations to the radionavigation-satellite service (space-to-Earth) in the frequency bands [5 030-5 150 MHz and 5 150-5 250 MHz] or parts thereof*</p>	<p>WP 4C</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to conduct and complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on spectrum requirements and technical and operational characteristics for the RNSS, in particular in the space-to-Earth direction between [5 030 and 5 250 MHz];</p> <p>2 studies on sharing and compatibility between RNSS and the incumbent services allocated in the frequency range [5 030-5 250 MHz] and the adjacent-band services and studies related to the protection of the RAS in the frequency band 4 990-5 000 MHz, taking into account <i>recognizing a</i>),</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, possible allocations to the RNSS (space-to-Earth) in the frequency bands [5 030-5 150 MHz and 5 150-5 250 MHz] or parts thereof,</p> <p>...</p>	<p>–</p>
2.10 to consider a possible new primary allocation to the Earth exploration-satellite service (Earth-to-space) in the frequency band 22.55-23.15 GHz, in accordance with Resolution 664 (Rev.WRC-23) ;			
<p>Resolution 664 (Rev.WRC-23) Studies on a possible new primary allocation to the Earth exploration-satellite service (Earth-to-space) in the frequency band 22.55-23.15 GHz</p>	<p>WP 7B</p>	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>studies on spectrum requirements and studies on sharing and compatibility between EESS (Earth-to-space) and the existing services, taking into account <i>noting a) to e)</i>, while ensuring the protection of these services, using relevant technical and operational parameters of their current and planned use,</p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of the studies under <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i>, a new worldwide primary allocation to the EESS (Earth-to-space) in the frequency band 22.55-23.15 GHz,</p> <p>...</p>	<p>–</p>

* The appearance of square brackets around certain frequency bands in this Resolution is understood to mean that WRC-27 will consider and review the inclusion of these frequency bands with square brackets and decide, as appropriate.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.11		to consider an upgrade of the secondary allocation to the Earth exploration-satellite service (space-to-Earth) in the frequency band [37.5-40.5 GHz] or possible new worldwide frequency allocations on a primary basis to the Earth exploration-satellite service (space-to-Earth) in certain frequency bands within the frequency range [40.5-52.4 GHz], in accordance with Resolution 685 (WRC-23) ;	
<p>Resolution 685 (WRC-23) Studies towards frequency allocations for the Earth exploration-satellite service (space-to-Earth) within the frequency range [37.5-52.4 GHz]*</p>	WP 7B	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 the review of the existing allocation to the EESS (space-to-Earth) in the frequency band [37.5-40.5 GHz], and sharing and compatibility studies as necessary, in order to determine the feasibility of upgrading this frequency allocation to primary status while ensuring the protection of the primary services;</p> <p>2 the identification of frequency bands within the frequency range [40.5-52.4 GHz], and sharing and compatibility studies as necessary, in order to determine the feasibility of creating new primary allocations to the EESS (space-to-Earth) in these bands, while ensuring the protection of the primary services,</p> <p>...</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of studies, an upgrade of the secondary allocation to the EESS (space-to-Earth) in the frequency band [37.5-40.5 GHz] or possible new worldwide allocations on a primary basis to the EESS (space-to-Earth) in certain frequency bands within the frequency range [40.5-52.4 GHz],</p> <p>...</p>	-

* The appearance of square brackets around certain frequency bands in this Resolution is understood to mean that WRC-27 will consider and review the inclusion of these frequency bands with square brackets and decide, as appropriate.

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.12 to consider possible new allocations to the Earth exploration-satellite service (active) in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz] on a secondary basis, in accordance with Resolution 686 (WRC-23) ;			
Resolution 686 (WRC-23) Possible secondary allocation to the Earth exploration-satellite service (active) in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz]*	WP 7C	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>studies on spectrum needs and studies on the possibility of sharing between the EESS (active) and incumbent radio services in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz],</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider the results of studies for a possible new secondary allocation to the EESS (active) for spaceborne SARs in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz], taking into account the protection of incumbent services, and take appropriate action,</p> <p>...</p>	-
2.13 to consider studies on coexistence between spaceborne synthetic aperture radars operating in the Earth exploration-satellite service (active) and the radiodetermination service in the frequency band 9 200-10 400 MHz, with possible actions as appropriate, in accordance with Resolution 722 (WRC-23) ;			
Resolution 722 (WRC-23) Studies on the coexistence between spaceborne synthetic aperture radars operating in the Earth exploration-satellite service (active) and radiodetermination service in the frequency band [9 200-10 400 MHz]*	WP 7C**	<p><i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2031 world radiocommunication conference</i></p> <p>1 studies on the technical and operational characteristics of SARs in the EESS (active) in the frequency band 9 200-10 400 MHz;</p> <p>2 studies on the coexistence between SARs operating in the EESS (active) and the radiodetermination service in the frequency band 9 200-10 400 MHz,</p> <p>...</p> <p><i>resolves to invite the 2031 world radiocommunication conference</i></p> <p>to consider the results of the above ITU-R studies and take actions, as appropriate.</p>	-

* The appearance of square brackets around certain frequency bands in this Resolution is understood to mean that WRC-27 will consider and review the inclusion of these frequency bands with square brackets and decide, as appropriate.

** Initially proposed by the proponent of this agenda item to be an agenda time for WRC-27, it was included in the draft provisional allocation of ITU-R preparatory work for WRC-31. It is emphasized that this draft agenda item is asking for studies on coexistence between radiodetermination systems (WP 5B) and EESS (active) systems (WP 7C). Final decision on responsible group would be made at later stage (CPM31-1).

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
2.14		to review spectrum use and needs of applications of broadcasting and mobile services and consider possible regulatory actions in the frequency band 470-694 MHz, or parts thereof, in accordance with Resolution 235 (Rev.WRC-23) ;	
<p>Resolution 235 (Rev.WRC-23) Review of the spectrum use of the frequency band 470-694 MHz or parts thereof for some countries in Region 1</p>	<p>WP 6A</p>	<p><i>recognizing</i></p> <p>...</p> <p><i>g)</i> the ongoing needs of the LMS with allocations on a secondary basis used for applications ancillary to broadcasting and programme making in No. 5.296 in the frequency band 470-694 MHz, and that stations in the LMS in the countries listed in this footnote shall not cause harmful interference to other existing or planned stations, considering the need to assess the demand of these applications in various administrations,</p> <p>...</p> <p><i>resolves to invite the ITU Radiocommunication Sector after this conference and in time for the 2031 world radiocommunication conference</i></p> <p>1 to review spectrum use and needs of applications of broadcasting and mobile services, taking into account <i>recognizing g)</i>, within the frequency band 470-694 MHz or parts thereof for countries listed in No. 5.15A;</p> <p>2 based on the review referred to in <i>resolves to invite the ITU Radiocommunication Sector, after this conference and in time for the 2031 world radiocommunication conference 1</i>, to update sharing and compatibility studies for coexistence conditions and develop new studies, as appropriate, taking into account existing primary and secondary services and No. 5.15A, and to propose technical and regulatory conditions,</p> <p><i>encourages administrations</i></p> <p>1 to participate actively in the studies by submitting contributions to ITU-R;</p> <p>2 to consider making available spectrum for continued SAB/SAP operation, taking into account Resolution ITU-R 59;</p> <p>3 to take appropriate measures for the protection of stations in the radio astronomy service (see Nos. 5.304 and 5.306) from stations in the mobile service, in accordance with the Radio Regulations,</p> <p><i>invites the 2031 world radiocommunication conference</i></p> <p>to consider, based on the results of ITU-R studies:</p> <p><i>a)</i> possible regulatory actions, including a review of the allocation of the frequency band 614-694 MHz to the mobile service for countries listed in No. 5.15A;</p>	<p>SG 5 SG 7</p>

Allocation of ITU-R preparatory work for WRC-31

Topic	Responsible group	Action to be taken by the group	Contributing group
		<p><i>b)</i> and then also, a possible regulatory action to protect the radio astronomy services to which the frequency band 608-614 MHz is allocated in some countries in Region 1, taking into account the outcomes of <i>invites the 2031 world radiocommunication conference a)</i> above, <i>further invites the ITU Radiocommunication Sector</i></p> <p>to ensure intersectoral collaboration with the ITU Telecommunication Development Sector in the implementation of this Resolution.</p>	

ANNEX 9

Outline of the draft CPM Report to WRC-27

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
CHAPTER 1				
Fixed-satellite and broadcasting-satellite issues				
1.1	1/1.1	to consider the technical and operational conditions for the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with space stations in the fixed-satellite service and develop regulatory measures, as appropriate, to facilitate the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with geostationary space stations and non-geostationary space stations in the fixed-satellite service, in accordance with Resolution 176 (Rev.WRC-23)	Resolution 176 (Rev.WRC-23)	WP 4A
1.2	1/1.2	to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution 129 (WRC-23)	Resolution 129 (WRC-23)	WP 4A*
<p>* Based on past experiences on the studies on this frequency band and the complexity of this issue, special attention should be paid to the interaction between WP 4A and WP 5B. Therefore WP 4A needs to take into account, as received, the potential update information and characteristics on the protection and operation of the radiolocation service as duly provided by WP 5B, in order to perform the relevant sharing studies. Based on progress on the studies in WP 4A, in case of necessity, joint meeting sessions of WP 4A and WP 5B should be organised to facilitate the collaboration between the WPs on the issue relative to the protection of the radiolocation service.</p>				
1.3	1/1.3	to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution 130 (WRC-23)	Resolution 130 (WRC-23)	WP 4A
1.4	1/1.4	to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution 726 (WRC-23)	Resolution 726 (WRC-23)	WP 4A

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
1.5	1/1.5	to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution 14 (WRC-23)	Resolution 14 (WRC-23)	WP 4A
1.6	1/1.6	to consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands, in accordance with Resolution 131 (WRC-23)	Resolution 131 (WRC-23)	WP 4A
7	1/7	to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution 86 (Rev.WRC-07) , in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit	Resolution 86 (Rev.WRC-07)	WP 4A
CHAPTER 2				
Fixed, mobile and radiolocation issues				
1.7	2/1.7	to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution 256 (WRC-23)	Resolution 256 (WRC-23)	WP 5D
1.8	2/1.8	to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution 663 (Rev.WRC-23)	Resolution 663 (Rev.WRC-23)	WP 5B
1.9	2/1.9	to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution 411 (WRC-23)	Resolution 411 (WRC-23)	WP 5B
1.10	2/1.10	to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution 775 (Rev.WRC-23)	Resolution 775 (Rev.WRC-23)	WP 5C*

* Studies should be carried out in close collaboration between the indicated WPs (Note by the Secretariat: the indicated WPs are 5C, 4A, 4C and 5A).

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
CHAPTER 3				
Mobile-satellite issues				
1.11	3/1.11	to consider the technical and operational issues, and 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 and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution 249 (Rev.WRC-23)	Resolution 249 (Rev.WRC-23)	WP 4C
1.12	3/1.12	to consider, based on the results of studies, 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) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems, in accordance with Resolution 252 (WRC-23)	Resolution 252 (WRC-23)	WP 4C
1.13	3/1.13	to consider studies on 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, in accordance with Resolution 253 (WRC-23)	Resolution 253 (WRC-23)	WP 4C*
<p>* WP 4C will carry out the studies on possible allocations to the MSS in the frequency bands between 694/698 MHz and 2.7 GHz provided by input contributions, including those from WP 5D based on the IMT frequency arrangements contained in the most recent version of Recommendation ITU-R M.1036. WP 4C, in close collaboration with WP 5D, will conduct studies referred to in the <i>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference 2</i>. WP 4C will carry out the studies requested in the <i>further resolves 1 and 2</i>. WP 5D is expected to provide studies which include regulatory considerations on the protection of terrestrial component of IMT. WP 4C should take the lead in developing the draft CPM text by including the WP 5D's results on the regulatory considerations on the protection of terrestrial component of IMT. To facilitate the work, the Chair of both WPs should coordinate the schedule of WPs meetings, as appropriate, and provide a note to both WPs in this regard.</p>				
1.14	3/1.14	to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution 254 (WRC-23)	Resolution 254 (WRC-23)	WP 4C
CHAPTER 4				
Science issues				
1.15	4/1.15	to 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, in accordance with Resolution 680 (WRC-23)	Resolution 680 (WRC-23)	WP 7B
1.16	4/1.16	to consider studies on the technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in frequency bands allocated to the radio astronomy service on a primary basis globally, from aggregate radio-frequency interference caused by non-geostationary-satellite orbit systems, in accordance with Resolution 681 (WRC-23)	Resolution 681 (WRC-23)	WP 7D

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
1.17	4/1.17	to 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, in accordance with Resolution 682 (WRC-23)	Resolution 682 (WRC-23)	WP 7C
1.18	4/1.18	to 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, in accordance with Resolution 712 (WRC-23)	Resolution 712 (WRC-23)	WP 7C <i>(resolves 1)</i> WP 7D <i>(resolves 2)</i>
1.19	4/1.19	to 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, in accordance with Resolution 674 (WRC-23)	Resolution 674 (WRC-23)	WP 7C
CHAPTER 5				
General issues				
2	5/2	to examine the revised ITU Radiocommunication Sector Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with the <i>further resolves</i> of Resolution 27 (Rev.WRC-19) , and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in the <i>resolves</i> of that Resolution	Resolution 27 (Rev.WRC-19)	CPM27-2
4	5/4	in accordance with Resolution 95 (Rev.WRC-19) , to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation	Resolution 95 (Rev.WRC-19)	CPM27-2
ANNEX 1				
Information on WRC-27 agenda item 10				
10	-	to 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 and Resolution 804 (Rev.WRC-23)	Resolution 804 (Rev.WRC-23) Resolution 814 (WRC-23)	CPM27-2 for information only
10	A1/2.1	to consider potential new allocations to the fixed, mobile, radiolocation, amateur, amateur-satellite, radio astronomy, Earth exploration-satellite (passive and active) and space research (passive) services in the frequency range 275-325 GHz in the Table of Frequency Allocations of the Radio Regulations, with the consequential update of Nos. 5.149, 5.340, 5.564A and 5.565 , in accordance with Resolution 721 (WRC-23)	Resolution 721 (WRC-23)	WP 1A
10	A1/2.2	[to consider the possible [frequency bands] for [non-beam and beam] wireless power transmission to avoid harmful interference to the radiocommunication services caused by wireless power transmission, in accordance with Resolution 910 (WRC-23)]	Resolution 910 (WRC-23)	WP 1A

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
10	A1/2.3	to consider the use of aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service (Earth-to-space) in the frequency band 12.75-13.25 GHz, in accordance with Resolution 133 (WRC-23)	Resolution 133 (WRC-23)	WP 4A
10	A1/2.4	to consider, based on the results of ITU Radiocommunication Sector studies, support for inter-satellite service allocations in the frequency bands 3 700-4 200 MHz and 5 925-6 425 MHz, and associated regulatory provisions, to enable links between non-geostationary orbit satellites and geostationary orbit satellites, in accordance with Resolution 683 (WRC-23)	Resolution 683 (WRC-23)	WP 4A
10	A1/2.5	to consider a possible primary allocation in the frequency bands [694-960 MHz, or parts thereof, in Region 1], 890-942 MHz, or parts thereof, in Region 2, and [3 400-3 700 MHz, or parts thereof, in Region 3] to the aeronautical mobile service for the use of International Mobile Telecommunications (IMT) user equipment in terrestrial IMT networks by non-safety applications, in accordance with Resolution 251 (Rev.WRC-23)	Resolution 251 (Rev.WRC-23)	WP 5D
10	A1/2.6	to consider the identification of the frequency bands [102-109.5 GHz, 151.5-164 GHz, 167-174.8 GHz, 209-226 GHz and 252-275 GHz] for International Mobile Telecommunications, in accordance with Resolution 255 (WRC-23)	Resolution 255 (WRC-23)	WP 5D **
<p>** Preparatory work in support of this preliminary agenda item will require extensive research, measurement, and model development activities to extend the applicability of radiowave propagation prediction methods for sharing and compatibility studies in frequency bands up to 275 GHz. Membership is encouraged to support these activities within Working Parties 3J and 3K as it is essential that this work should start within the 2023-2027 study period.</p>				
10	A1/2.7	to consider improving the utilization of VHF maritime radiocommunication, in accordance with Resolution 363 (Rev.WRC-23)	Resolution 363 (Rev.WRC-23)	WP 5B
10	A1/2.8	to consider improving the utilization and channelization of maritime radiocommunication in the MF and HF bands, including potential revisions of Article 52 and Appendix 17 , in accordance with Resolution 366 (WRC-23)	Resolution 366 (WRC-23)	WP 5B
10	A1/2.9	to consider possible allocations to the radionavigation-satellite service (space-to-Earth) in the frequency bands [5 030-5 150 MHz and 5 150-5 250 MHz] or parts thereof in accordance with Resolution 684 (WRC-23)	Resolution 684 (WRC-23)	WP 4C
10	A1/2.10	to consider a possible new primary allocation to the Earth exploration-satellite service (Earth-to-space) in the frequency band 22.55-23.15 GHz, in accordance with Resolution 664 (Rev.WRC-23)	Resolution 664 (Rev.WRC-23)	WP 7B
10	A1/2.11	to consider an upgrade of the secondary allocation to the Earth exploration-satellite service (space-to-Earth) in the frequency band [37.5-40.5 GHz] or possible new worldwide frequency allocations on a primary basis to the Earth exploration-satellite service (space-to-Earth) in certain frequency bands within the frequency range [40.5-52.4 GHz], in accordance with Resolution 685 (WRC-23)	Resolution 685 (WRC-23)	WP 7B

Draft CPM Report to WRC-27				
Agenda item	Section	Agenda item title	References	Responsible group
10	A1/2.12	to consider possible new allocations to the Earth exploration-satellite service (active) in the frequency bands [3 000-3 100 MHz] and [3 300-3 400 MHz] on a secondary basis, in accordance with Resolution 686 (WRC-23)	Resolution 686 (WRC-23)	WP 7C
10	A1/2.13	to consider studies on coexistence between spaceborne synthetic aperture radars operating in the Earth exploration-satellite service (active) and the radiodetermination service in the frequency band 9 200-10 400 MHz, with possible actions as appropriate, in accordance with Resolution 722 (WRC-23)	Resolution 722 (WRC-23)	WP 7C**
<p>** Initially proposed by the proponent of this agenda item to be an agenda time for WRC-27, it was included in the draft provisional allocation of ITU-R preparatory work for WRC-31. It is emphasized that this draft agenda item is asking for studies on coexistence between radiodetermination systems (WP 5B) and EESS (active) systems (WP 7C). Final decision on responsible group would be made at later stage (CPM31-1).</p>				
10	A1/2.14	to review spectrum use and needs of applications of broadcasting and mobile services and consider possible regulatory actions in the frequency band 470-694 MHz, or parts thereof, in accordance with Resolution 235 (Rev.WRC-23)	Resolution 235 (Rev.WRC-23)	WP 6A
ANNEX 2				
Information on WRC-27 agenda item 8				
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-23)	Resolution 26 (Rev.WRC-23)	CPM27-2 for information only

ANNEX 10

Proposed detailed structure for the draft CPM Report to WRC-27

See the document at: <https://www.itu.int/oth/ROA0A000023/en>.

ANNEX 11

Contact information of the CPM-27 Chair, Vice-Chairs and Chapter Rapporteurs

For the CPM-27 Chair and Vice-Chairs, please visit:

www.itu.int/go/ITU-R_e/cvc-CPM

For the CPM-27 Chapter Rapporteurs, please visit:

<https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/cpm-27-chp-rapporteurs.aspx>.
