



ITU-APT Foundation of India

ITU-APT Foundation of India  
**3<sup>RD</sup> NATIONAL WORKSHOP ON WRC-19 PREPARTIONS**  
**SPECTRUM FOR 5G AND OTHER WRC-19 AGENDA ITEMS**  
 (Focus on Agenda Items 1.3, 1.4, 1.5, 1.6, 1.8, 1.11, 1.12, 1.13,  
 1.14, 1.16, 9.1.1, 9.1.7, 9.1.8, 7, 10)

15<sup>th</sup> December 2018

SUMMARY OF WRC AGENDA ITEMS	
CPM- Chapter 1 Land mobile and fixed services	1.11 - SPECTRUM FOR RAILWAYS
	1.12 - SPECTRUM FOR INTELLIGENT TRAANSPORT (DRIVERLESS CARS)
	1.14 - HAPS
	1.15 - LAND MOBILE ABOVE 275 GHZ
CPM CHAPTER 2 BROADBAND APPLICATION S IN THE MOBILE SERVICE	1.13 - 5G - IMT2020 MM WAVE BANDS ABOVE 24.25 GHZ
	1.16 - 5 GHZ RADIO LANS (WIFI)
	9.1 - (ISSUES 9.1.1, 9.1.5, 9.1.8) - DIRECTORS REPORT - 2 GHZ /IOT
CPM Chapter 3 Satellite services	1.4 - APP-30 LIMITS REVIEW
	1.5 - ESIMS
	1.6 - NON GSO FSS BANDS
	7 - SATELLITE REGULATORU FRAMEWORK
	9.1 (ISSUES 9.1.2, 9.1.3, 9.1.9) - L BAND/NGSO- C BAND/FSS-51-52 GHZ
CPM CHAPTER 4 SCIENCE SERVICES	1.2 - MET SAT IN 399-403 MHZ
	1.3 - MET SAT/EESS IN 460-470 MHZ
	1.7-TTC FOR SPACE OPERTIONS FOR NGSO

CPM CHAPTER 5 MARITIME, AERONAUTICA L AND AMATEUR	1.1 - AMATEUR IN 50-54 MHZ
	1.8 - GMDSS REGULATIONS
	1.9 - GMDSS -VDES
	1.10 - GADSS
CPM CHAPTER 6 GENERAL ISSUES	9.1 (ISSUE 9.1.4) - SUBORBITAL VEHICLES
	2 - CONSEQUENTIAL CHANGES
	4 - REVIEW RESOLUTIONS
	9.1 (ISSUES 9.1.6, 9.1.7) - WPT & UNAUTHORISED OPERTIONS
	10 - AGENDA FOR WRC-23

**Text of all WRC-19 agenda items**

	<b>WRC-19 agenda item</b>	<b>Chapter of the draft CPM Report to WRC-19</b>
1	on the basis of proposals from administrations, taking account of the results of WRC-15 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 an allocation of the frequency band 50-54 MHz to the amateur service in Region 1, in accordance with Resolution <b>658 (WRC-15)</b> ;	5
1.2	to consider in-band power limits for earth stations operating in the mobile-satellite service, meteorological-satellite service and Earth exploration-satellite service in the frequency bands 401-403 MHz and 399.9-400.05 MHz, in accordance with Resolution <b>765 (WRC-15)</b> ;	4
1.3	to consider possible upgrading of the secondary allocation to the meteorological-satellite service (space-to-Earth) to primary status and a possible primary allocation to the Earth exploration-satellite service (space-to-Earth) in the frequency band 460-470 MHz, in accordance with Resolution <b>766 (WRC-15)</b> ;	4
1.4	to consider the results of studies in accordance with Resolution <b>557 (WRC-15)</b> , and review, and revise if necessary, the limitations mentioned in Annex 7 to Appendix <b>30 (Rev.WRC-15)</b> , while ensuring the protection of, and without imposing additional constraints on, assignments in the Plan and the List and the future development of the broadcasting-satellite service within the Plan, and existing and planned fixed-satellite service networks;	3
1.5	to consider the use of the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service and take appropriate action, in accordance with Resolution <b>158 (WRC-15)</b> ;	3
1.6	to consider the development of a regulatory framework for non-GSO FSS satellite systems that may operate in the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), in accordance with Resolution <b>159 (WRC-15)</b> ;	3

	<b>WRC-19 agenda item</b>	<b>Chapter of the draft CPM Report to WRC-19</b>
1.7	to study the spectrum needs for telemetry, tracking and command in the space operation service for non-GSO satellites with short duration missions, to assess the suitability of existing allocations to the space operation service and, if necessary, to consider new allocations, in accordance with Resolution <b>659 (WRC-15)</b> ;	4
1.8	to consider possible regulatory actions to support Global Maritime Distress Safety Systems (GMDSS) modernization and to support the introduction of additional satellite systems into the GMDSS, in accordance with Resolution <b>359 (Rev.WRC-15)</b> ;	5
1.9	to consider, based on the results of ITU-R studies:	-
1.9.1	regulatory actions within the frequency band 156-162.05 MHz for autonomous maritime radio devices to protect the GMDSS and automatic identifications system (AIS), in accordance with Resolution <b>362 (WRC-15)</b> ;	5
1.9.2	modifications of the Radio Regulations, including new spectrum allocations to the maritime mobile-satellite service (Earth-to-space and space-to-Earth), preferably within the frequency bands 156.0125-157.4375 MHz and 160.6125-162.0375 MHz of Appendix <b>18</b> , to enable a new VHF data exchange system (VDES) satellite component, while ensuring that this component will not degrade the current terrestrial VDES components, applications specific messages (ASM) and AIS operations and not impose any additional constraints on existing services in these and adjacent frequency bands as stated in <i>recognizing d) and e)</i> of Resolution <b>360 (Rev.WRC-15)</b> ;	5
1.10	to consider spectrum needs and regulatory provisions for the introduction and use of the Global Aeronautical Distress and Safety System (GADSS), in accordance with Resolution <b>426 (WRC-15)</b> ;	5
1.11	to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution <b>236 (WRC-15)</b> ;	1
1.12	to consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations, in accordance with Resolution <b>237 (WRC-15)</b> ;	1
1.13	to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution <b>238 (WRC-15)</b> ;	2

	<b>WRC-19 agenda item</b>	<b>Chapter of the draft CPM Report to WRC-19</b>
1.14	to consider, on the basis of ITU-R studies in accordance with Resolution <b>160 (WRC-15)</b> , appropriate regulatory actions for high-altitude platform stations (HAPS), within existing fixed-service allocations;	1
1.15	to consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, in accordance with Resolution <b>767 (WRC-15)</b> ;	1
1.16	to consider issues related to wireless access systems, including radio local area networks (WAS/RLAN), in the frequency bands between 5 150 MHz and 5 925 MHz, and take the appropriate regulatory actions, including additional spectrum allocations to the mobile service, in accordance with Resolution <b>239 (WRC-15)</b> ;	2
2	to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution <b>28 (Rev.WRC-15)</b> , and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in Annex 1 to Resolution <b>27 (Rev.WRC-12)</b> ;	6
3	to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;	Not in scope of CPM
4	in accordance with Resolution <b>95 (Rev.WRC-07)</b> , to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;	6
5	to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;	Not in scope of CPM
6	to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;	Not in scope of CPM
7	to consider possible changes, and other options, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, an advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution <b>86 (Rev.WRC-07)</b> , in order to facilitate rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;	3
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 <b>26 (Rev.WRC-07)</b> ;	Not in scope of CPM

	WRC-19 agenda item	Chapter of the draft CPM Report to WRC-19
9	to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:	-
9.1	on the activities of the Radiocommunication Sector since WRC-15;	-
	9.1.1 <sup>a</sup> ) Res. <b>212 (Rev.WRC-15)</b> - <i>Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz</i>	2
	9.1.2 <sup>a</sup> ) Res. <b>761 (-15)</b> - <i>Compatibility of International Mobile Telecommunications and broadcasting-satellite service (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3</i>	3
	9.1.3 <sup>a</sup> ) Res. <b>157 (WRC-15)</b> - <i>Study of technical and operational issues and regulatory provisions for new non-geostationary-satellite orbit systems in the 3 700-4 200 MHz, 4 500-4 800 MHz, 5 925-6 425 MHz and 6 725-7 025 MHz frequency bands allocated to the fixed-satellite service</i>	3
	9.1.4 <sup>a</sup> ) Res. <b>763 (WRC-15)</b> - <i>Stations on board sub-orbital vehicles</i>	5
	9.1.5 <sup>a</sup> ) Res. <b>764 (WRC-15)</b> - <i>Consideration of the technical and regulatory impacts of referencing Recommendations ITU-R M.1638 1 and ITU R M.1849 1 in Nos. 5.447F and 5.450A of the Radio Regulations</i>	2
	9.1.6 <sup>a</sup> ) Issue 1) in the Annex to Resolution <b>958 (WRC-15)</b> - <i>Urgent studies required in preparation for the 2019 World Radiocommunication Conference</i> 1) <i>Studies concerning Wireless Power Transmission (WPT) for electric vehicles:</i> a) <i>to assess the impact of WPT for electric vehicles on radiocommunication services;</i> b) <i>to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles.</i> <i>These studies should take into account that the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the Society of Automotive Engineers (SAE) are in the process of approving standards intended for global and regional harmonization of WPT technologies for electric vehicles.</i>	6

a) Issue identified by CPM19-1 under WRC-19 agenda item 9.1 (see Administrative Circular [CA/226](#) of 23 December 2015).

WRC-19 agenda item		Chapter of the draft CPM Report to WRC-19
	<p>9.1.7<sup>a</sup>) Issue 2) in the Annex to Resolution <b>958 (WRC-15)</b> – <i>Urgent studies required in preparation for the 2019 World Radiocommunication Conference</i></p> <p>2) <i>Studies to examine:</i></p> <p>a) <i>whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. 18.1;</i></p> <p>b) <i>the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA 15).</i></p>	6
	<p>9.1.8<sup>a</sup>) Issue 3) in the Annex to Resolution <b>958 (WRC-15)</b> – <i>Urgent studies required in preparation for the 2019 World Radiocommunication Conference</i></p> <p>3) <i>Studies on the technical and operational aspects of radio networks and systems, as well as spectrum needed, including possible harmonized use of spectrum to support the implementation of narrowband and broadband machine-type communication infrastructures, in order to develop Recommendations, Reports and/or Handbooks, as appropriate, and to take appropriate actions within the ITU Radiocommunication Sector (ITU-R) scope of work.</i></p>	2
	<p>9.1.9<sup>a</sup>) Res. <b>162 (WRC-15)</b> – <i>Studies relating to spectrum needs and possible allocation of the frequency band 51.4-52.4 GHz to the fixed-satellite service (Earth-to-space)</i></p>	3
9.2	<p>on any difficulties or inconsistencies encountered in the application of the Radio Regulations*<sup>1</sup>; and</p>	–
9.3	<p>on action in response to Resolution <b>80 (Rev.WRC-07)</b>;</p>	–
10.	<p>to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, in accordance with Article 7 of the Convention,</p>	6

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\* This agenda 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.