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| **WRC-19 ADVISORY COMMITTEE STRUCTURE**   |  |  |  | | --- | --- | --- | | **Chair**: Tom Power CTIA  202-736-3669 [tpower@ctia.org](mailto:tpower@ctia.org) | **Vice-Chair**:  Chris Murphy  ViaSat, Inc.  760-893-3269  [christopher.murphy@viasat.com](mailto:christopher.murphy@viasat.com) | **Designated Federal Official:**  Michael Mullinix  FCC, International Bureau  202 418-0491  [michael.mullinix@fcc.gov](mailto:michael.mullinix@fcc.gov) | |

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| * + - **Informal Working Group 1 (IWG-1) Maritime, Aeronautical and Radar Services**     - **Informal Working Group 2 (IWG-2) Terrestrial Services**     - **Informal Working Group 3 (IWG-3) Space Services**     - **Informal Working Group 4 (IWG-4) Regulatory Issues** |

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| **IWG-1 Maritime, Aeronautical and Radar Services**   |  |  |  | | --- | --- | --- | | **IWG-1 Chair**:  Joseph Cramer  The Boeing Company  703-465 3486  [Joseph.Cramer@boeing.com](mailto:Joseph.Cramer@boeing.com) | **IWG-1 Vice-Chair**:  Kathryn Martin  Access Partnership Representing OneWeb  202-503-1571 [kathryn@accesspartnership.com](mailto:Kathryn.Martin@accesspartnership.com) | **IWG-1 FCC Coordinators:**  Allen Yang/IB  Dante Ibarra/IB  Kathyrn Medley/IB  Larry Olson/IB | | | |
| **WRC-19 Agenda No.** | **Subject** | **ITU-R Lead**  **WP** |
| 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 359 (Rev.WRC-15) | WP5B |
| 1.9 | 1.9.1 to consider, based on the results of ITU-R studies 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 362 (WRC-15) | WP5B |
| 1.9.2 to consider, based on the results of ITU-R studies 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 18, 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 recognizing d) and e) of Resolution 360 (Rev.WRC-15) |
| 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 426 (WRC-15) | WP5B |
| 9.1.4 | to conduct studies to identify any required technical and operational measures, in relation to stations on board sub-orbital vehicles, that could assist in avoiding harmful interference between radiocommunication services | WP5B |
| 10[[1]](#footnote-1)\* | 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 |  |

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| **IWG-2 Terrestrial Services**   |  |  |  | | --- | --- | --- | | **IWG-2 Chair**:  Jayne Stancavage  Intel Corporation  408-887-3186  [jayne.stancavage@intel.com](mailto:jayne.stancavage@intel.com) | **IWG-2 Vice-Chair**:  **Patricia Paoletta**  Harris Wiltshire & Grannis LLP  202-730-1314  [tpaoletta@hwglaw](mailto:tpaoletta@hwglaw).com | **IWG-2 FCC Coordinators:**  Dante Ibarra/IB  Allen Yang/IB | | | |
| **WRC-19 Agenda No.** | **Subject** | **ITU-R Lead**  **WP** |
| 1.1 | to consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1, in accordance with Resolution 658 (WRC-15) | WP5A |
| 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 236 (WRC-15) | WP5A |
| 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 237 (WRC-15) | WP5A |
| 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 238 (WRC-15) | TG5/1 and  WP5D |
| 1.14 | to consider, on the basis of ITU-R studies in accordance with Resolution 160 (WRC-15), appropriate regulatory actions for high-altitude platform stations (HAPS), within existing fixed-service allocations | WP5C |
| 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 767 (WRC-15) | WP1A |
| 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 239 (WRC-15) | WP5A |
| 9.1.1 | to study possible technical and operational measures to ensure coexistence and compatibility between the terrestrial component of IMT (in the mobile service) and the satellite component of IMT (in the mobile service and the mobile-satellite service) in the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz where those frequency bands are shared by mobile service and the mobile-satellite service in different countries, in particular for the deployment of independent satellite and terrestrial components of IMT and to facilitate development of both the satellite and terrestrial components of IMT | WP4C and WP5D |
| 9.1.2 | to conduct, in time for WRC-19, the appropriate regulatory and technical studies, with a view to ensuring the compatibility of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3, taking into account IMT and BSS (sound) operational requirements | WP4A and WP5D |
| 9.1.5 | to consider 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 | WP5A |
| 9.1.8 | to study 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 | WP5D |
| 10[[2]](#footnote-2)\* | 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 |  |

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| **IWG-3 Space Services**   |  |  |  | | --- | --- | --- | | **IWG-3 Chair**:  Jack Wengryniuk  Inmarsat  202-615-4428  [jack.wengryniuk@inmarsat.com](mailto:Jw0854@att.com) | **IWG-3 Vice-Chair**  Zachary Rosenbaum  SES Americom, Inc.  202-813-4021  [Zachary.Rosenbaum@o3bnetworks.com](mailto:Zachary.Rosenbaum@o3bnetworks.com) | **IWG-3 FCC Coordinators**:  Clay DeCell/IB  Sankar Persaud/IB | | | |
| **WRC-19 Agenda No.** | **Subject** | **ITU-R Lead**  **WP** |
| 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 765 (WRC-15) | WP7B |
| 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 766 (WRC-15 | WP7B |
| 1.5 | to consider the use of the frequency bands 17.7-19.7 GHz (s-E) and 27.5-29.5 GHz (E-s) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service and take appropriate action, in accordance with Resolution 158 (WRC-15) | WP4A |
| 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 (s-E), 39.5-42.5 GHz (s-E), 47.2-50.2 GHz (E-s) and 50.4-51.4 GHz (E-s), in accordance with Resolution 159 (WRC-15) | WP4A |
| 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 659 (WRC-15) | WP7B |
| 9.1.3 | to study 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 | WP4A |
| 9.1.7 | to examine 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, and 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) | WP1B |
| 9.1.9 | to conduct 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) GSO feeder links, Including the protection of the RAS, as appropriate | WP4A |
| 10[[3]](#footnote-3)\* | 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 |  |

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| **IWG-4 Regulatory Issues**   |  |  |  | | --- | --- | --- | | **IWG-4 Chair**:  Jennifer Manner  EchoStar, Inc.  202-903-0329  [Jennifer.Manner@echostar.com](mailto:Jennifer.Manner@echostar.com) | **IWG-4 Vice-Chair**:  Steve Baruch  New Wave Spectrum Partners LLC  240-476 2600  [sbaruch@newwavespectrum.com](mailto:sbaruch@newwavespectrum.com) | **IWG-4 FCC Coordinators:**  Allen Yang/IB  Clay DeCell/IB  Sankar Persaud/IB  Larry Olson/IB | | | |
| **WRC-19 Agenda No.** | **Subject** | **ITU-R Lead**  **WP** |
| 1.4 | to consider the results of studies in accordance with Resolution 557 (WRC 15), and review, and revise if necessary, the limitations mentioned in Annex 7 to Appendix 30 (Rev.WRC-12), 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 | WP4A |
| 2 | to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution 28 (Rev.WRC-15), and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in Annex 1 to Resolution 27 (Rev.WRC-12) | CPM |
| 4 | In accordance with Resolution 95 (Rev.WRC-07), to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation | 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 86 (Rev.WRC-07), in order to facilitate rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary satellite orbit | WP4A |
| 8 | to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution 26 (Rev.WRC-07) |  |
| 9.1 | to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention on the activities of the Radiocommunication Sector since WRC-15 |  |
| 9.1.6 | a) to assess the impact of WPT for electric vehicles on radiocommunication services;  b) to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles;  concerning Wireless Power Transmission (WPT) for electric vehicles | WP1B |
| 9.2 | to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention on any difficulties or inconsistencies encountered in the application of the Radio Regulations |  |
| 9.3 | to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention on action in response to Resolution 80 (Rev.WRC-07) |  |
| 10[[4]](#footnote-4)\* | 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 |  |

1. \* IWGs are expected to develop recommendations under AI 10 consistent with their area of expertise. [↑](#footnote-ref-1)
2. \* IWGs are expected to develop recommendations under AI 10 consistent with their area of expertise. [↑](#footnote-ref-2)
3. \* IWGs are expected to develop recommendations under AI 10 consistent with their area of expertise. [↑](#footnote-ref-3)
4. \* IWGs are expected to develop recommendations under AI 10 consistent with their area of expertise. [↑](#footnote-ref-4)