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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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| PLENARY MEETING | | **Revision 2 to**  **Document 62-E** | |
|  | | **27 November 2023** | |
|  | | **Original: English** | |
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| Asia-Pacific Telecommunity Common Proposals | | | |
| Proposals for the work of the conference | | | |
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This contribution presents the Asia-Pacific Telecommunity Common Proposals (ACPs) for WRC‑23. These proposals were developed over six preparatory meetings and finalized by the 6th Meeting of the APT Conference Preparatory Group for WRC-23 (APG23-6) held in Brisbane, Australia from 14 to 19 August 2023. The intent of these proposals is to provide a timely and effective response from APT Members to WRC-23 agenda items.

A separate Addendum is provided for each WRC-23 agenda item. Introductory material is provided in each Addendum explaining the basis of the relevant proposals. A Table is annexed in Annex 1 that provides cross-reference information between the Addendum number of each of the ACP documents and the different WRC-23 agenda items (and sub-items).

The Table in Annex 2 shows which of the APT Member Administrations support each of the APT Common Proposals. Many of these Common Proposals have been grouped as they form a logical package of individual proposals to modify the Radio Regulations.

**Annexes:** 3

Annex 1

Cross Reference Table between WRC-23 Agenda Items  
and APT Common Proposals

| WRC-23 Agenda Item | Sub Agenda Item/Issue | Text of Agenda Item | ACP Addendum Number | Proposal No.: ACP/XX |
| --- | --- | --- | --- | --- |
| 1.1 |  | to consider, based on the results of the ITU‑R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. **5.441B** in accordance with Resolution **223 (Rev.WRC‑19)**; | A1  (addendum not submitted) | No ACP |
| 1.2 |  | to consider identification of the frequency bands 3 300-3 400 MHz, 3 600‑3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **245** **(WRC‑19)**; | A2 | A2/1 to 4 |
| 1.3 |  | to consider primary allocation of the band 3 600‑3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with Resolution**246 (WRC‑19)**; | A3  (addendum not submitted) | No ACP |
| 1.4 |  | to consider, in accordance with Resolution **247** **(WRC‑19)**, the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level; | A4 | A4/1 to 9 |
| 1.5 |  | to review the spectrum use and spectrum needs of existing services in the frequency band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470‑694 MHz in Region 1 on the basis of the review in accordance with Resolution **235 (WRC‑15)**; | A5  (addendum not submitted) | No ACP |
| 1.6 |  | to consider, in accordance with Resolution **772 (WRC‑19)**, regulatory provisions to facilitate radiocommunications for sub-orbital vehicles; | A6  (addendum not submitted) | No ACP |
| 1.7 |  | to consider a new aeronautical mobile-satellite (R) service (AMS(R)S) allocation in accordance with Resolution **428** **(WRC‑19)** for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the AM(R)S, the ARNS, and in adjacent frequency bands; | A7 | A7/1 |
| 1.8 |  | to consider, on the basis of ITU‑R studies in accordance with Resolution **171** **(WRC‑19)**, appropriate regulatory actions, with a view to reviewing and, if necessary, revising Resolution **155 (Rev.WRC‑19)** and No. **5.484B** to accommodate the use of fixed-satellite service (FSS) networks by control and non-payload communications of unmanned aircraft systems; | A8  (addendum not submitted) | No PACP |
| 1.9 |  | to review Appendix **27** of the Radio Regulations and consider appropriate regulatory actions and updates based on ITU‑R studies, in order to accommodate digital technologies for commercial aviation safety-of-life applications in existing HF bands allocated to the aeronautical mobile (route) service and ensure coexistence of current HF systems alongside modernized HF systems, in accordance with Resolution **429** **(WRC‑19)**; | A9 | A9/1 to 7 |
| 1.10 |  | to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in accordance with Resolution **430** **(WRC‑19)**; | A10 (addendum not submitted) | No ACP |
| 1.11 |  | to consider possible regulatory actions to support the modernization of the Global Maritime Distress and Safety System and the implementation of e‑navigation, in accordance with Resolution **361 (Rev.WRC‑19)**; | A11 |  |
| Issue A | GMDSS modernization | A11 | A11/1 to 95 |
| Issue B | e-navigation | A11 | A11/94 and 96 |
| Issue C | New satellite systems |  | No ACP |
| 1.12 |  | to conduct, and complete in time for WRC‑23, studies for a possible new secondary allocation to the Earth exploration-satellite (active) service for spaceborne radar sounders within the range of frequencies around 45 MHz, taking into account the protection of incumbent services, including in adjacent bands, in accordance with Resolution **656 (Rev.WRC‑19)**; | A12 (addendum not submitted) | No ACP |
| 1.13 |  | to consider a possible upgrade of the allocation of the frequency band 14.8-15.35 GHz to the space research service, in accordance with Resolution **661** **(WRC‑19)**; | A13 (addendum not submitted) | No ACP |
| 1.14 |  | to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution **662** **(WRC‑19)**; | A14 | A14/1 to 3 |
| 1.15 |  | to harmonize the use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels communicating with geostationary space stations in the fixed-satellite service globally, in accordance with Resolution **172** **(WRC‑19)**; | A15 | A15/1 to 3 |
| 1.16 |  | to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) by non-GSO FSS earth stations in motion, while ensuring due protection of existing services in those frequency bands, in accordance with Resolution **173** **(WRC‑19)**; | A16 | A16/1 to 8 |
| 1.17 |  | to determine and carry out, on the basis of the ITU‑R studies in accordance with Resolution **773** **(WRC‑19)**, the appropriate regulatory actions for the provision of inter-satellite links in specific frequency bands, or portions thereof, by adding an inter-satellite service allocation where appropriate; | A17 | A17/1 to 12 |
| 1.18 |  | to consider studies relating to spectrum needs and potential new allocations to the mobile-satellite service for future development of narrowband mobile-satellite systems, in accordance with Resolution **248** **(WRC‑19)**; | A18 | A18/1 to 3 |
| 1.19 |  | to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution **174** **(WRC‑19)**; | A19 | A19/1 to 10 |
| 2 |  | to examine the revised ITU‑R 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; | A20 | A20/1 to 52 |
| 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; | A21 | A21/1 to 26 |
| 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; | A22 |  |
| A | Tolerances for Certain Orbital Characteristics of Non-GSO Space Stations in the FSS, BSS and MSS | A22-A1 | A22-A1/1 to 6 |
| B | Post-milestone reporting procedure for non-GSO systems | A22-A2 | A22-A2/1 to 3 |
| C | 7/8 & 20/30 GHz GSO MSS protection | A22-A3 | A22-A3/1 to 6 |
| D1 | Mod to App 1 to Annex 4 of RR AP30B | A22-A4 | A22-A4/1 to 3 |
| D2 | New AP4 parameters for Rec. S.1503 updates | A22-A5 | A22-A5/1 |
| D3 | BR reminders for BIU/BBIU | A22-A6 | A22-A6/1 to 8 |
| E | Improved procedures under RR Appendix 30B for new ITU Member States | A22-A7 (addendum not submitted) | No ACP |
| F | Exclusion of feeder-link/uplink service & coverage areas in AP30A/30B | A22-A8 (addendum not submitted) | No ACP |
| G | Amendments to Res. **770 (WRC‑19)** | A22-A9 | A22-A9/1 |
| H | Enhanced protection of RR Appendices 30/30A in R1&3 and RR Appendix 30B | A22-A10 (addendum not submitted) | No ACP |
| I | Special agreements under RR Appendix 30B | A22-A11 | A22-A11/1 to 8 |
| J | MODs to Res. **76 (Rev.WRC‑15)** | A22-A12 (addendum not submitted) | No ACP |
| K | MODs to Res. **553 (Rev.WRC‑15)** | A22-A13 | A22-A13/1 |
| 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‑19)**; | A23 | A23/1 |
| 9 |  | to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention; |  |  |
| 9.1 | on the activities of the Radiocommunication Sector since WRC-19: | A24 |  |
| 9.1a | *In accordance with Resolution****657 (Rev.WRC‑19)****, review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors with a view to describing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;* | A24-A1 | A24-A1/1 to 2 |
| 9.1b | *Review the amateur service and the amateur-satellite service allocations in the frequency band 1 240-1 300 MHz to determine if additional measures are required to ensure protection of the radionavigation-satellite (space-to-Earth) service operating in the same band in accordance with Resolution****774 (WRC‑19)****;* | A24-A2 | A24-A2/1 to 2 |
| 9.1c | *Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution****175 (WRC‑19)****;* | A24-A3 | A24-A3/1 to 4 |
| 9.1d | *Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations;* | A24-A4 (addendum not submitted) | No ACP |
| Res. 427 (WRC‑19) | *to study the Articles, limited to Chapters IV, V, VI and VIII of Volume I of the Radio Regulations and their associated Appendices, as appropriate, in order to identify outdated aeronautical provisions with respect to ICAO standards and recommended practices and to develop examples of regulatory texts for updating these provisions, while ensuring that potential changes to such provisions will not impact any other systems or services operating in accordance with the Radio Regulations”* | A24-A5 | A24-A5/1 to 4 |
| Res. 655 (WRC‑15) | *Definition of time scale and dissemination of time signals via radiocommunication systems* | A24-A6 | A24-A6/1 |
| 9.2 | on any difficulties or inconsistencies encountered in the application of the Radio Regulations; | A25 (addendum not submitted) | No ACP |
| 9.3 | on action in response to Resolution **80 (Rev.WRC‑07)**; | A26 (addendum not submitted) | No ACP |
| 10 |  | to recommend to the ITU Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution **804 (Rev.WRC‑19)**. | A27 |  |
| * Draft Resolution for WRC‑27 agenda and Draft Resolution for WRC‑31 preliminary agenda | A27-A1 | A27A1/1 to 4 |
| * Modification to Resolution **804 (Rev.WRC‑19)** | A27-A2 | A27-A2/1 |
| * Elements are proposed to be included in terms of reference of WRC‑23 working group responsible for agenda item 10 | A27-A3 | A27-A3/1 |
| * Input parameters for ITU‑R studies to be carried out by various ITU‑R study groups/working parties for relevant WRCs agenda items | A27-A4 | A27-A4/1 |
| * WRC‑27 preliminary agenda item 2.9 contained in Resolution **812 (WRC-19)** | A27-A5 | A27-A5/1 |
| * Allocation of 275-325 GHz | A27-A6 | A27-A6/1 to 2 |
| * Preliminary agenda item 2.12 contained in Resolution **812 (WRC-19)** | A27-A7 | A27-A7/1 to 2 |
| * Wireless Power Transmission (WPT) | A27-A8 | A27-A8/1 |
|  |  | * WRC‑27 preliminary agenda item 2.1 | A27-A9 | A27-A9/1 to 2 |
|  |  | * WRC‑27 preliminary agenda item 2.10 | A27-A10 | A27-A10/1 to 2 |
|  |  | * WRC‑27 preliminary agenda item 2.5 | A27-A11 | A27-A11/1 |
|  |  | * WRC‑27 preliminary agenda item 2.11 | A27-A12 | A27-A12/1 |
|  |  | * Technical and regulatory measures to ensure coexistence between spaceborne SAR and RDS in the frequency band 9.2-10.4 GHz | A27-A13 | A27-A13/1 to 2 |
|  |  | * WRC‑27 preliminary agenda item 2.6 | A27-A14 | A27-A14/1 to 2 |
|  |  | * WRC‑27 preliminary agenda item 2.3 | A27-A15 | A27-A15/1 |
|  |  | * WRC‑27 preliminary agenda item 2.4 | A27-A16 | A27-A16/1 to 2 |
|  |  | * WRC‑27 preliminary agenda item 2.13 | A27-A17 | A27-A17/1 |
|  |  | * WRC‑27 preliminary agenda item 2.7 | A27-A18 | A27-A18/1 |
|  |  | * WRC‑27 preliminary agenda item 2.8 | A27-A19 | A27-A19/1 |
|  |  | * New FSS/BSS allocations (Region 3) in 17.3-17.7 GHz | A27-A20 | A27-A20/1 to 2 |
|  |  | * FSS in the 13.75-14 GHz band | A27-A21 | A27-A21/1 to 2 |
| WRC‑19 Doc. 550 | RR 21.5 | Verification of No. 21.5 for the notification of IMT stations operating in the frequency band 24.45-27.5 GHz which use an antenna that consists of an array of active elements. | addendum not submitted | No ACP |

Annex 2

Table of Endorsements for the ACPs

| Agenda Item No. | Addendum No. | Proposal No. ACP/62 | AFG | AUS | BGD | BTN | BRU | CBG | CHN | KRE | FJI | IND | INS | IRN | J | KIR | KOR | LAO | MLA | MLD | MHL | FSM | MNG | BRM | NRU | NPL | NZL | PAK | PLW | PNG | PHL | SMO | SNG | SLM | CLN | THA | TON | TUV | VUT | VTN | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.1 | A1 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | A2 | A2/1 to 4 |  | Y | Y | - | Y | Y | Y |  |  | Y | Y | Y | Y |  | - | Y | Y | Y |  | - | Y | Y |  | Y | Y | Y |  | Y | Y | - | Y | Y | Y | Y | Y |  | - | - | 24 |
| 1.3 | A3 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.4 | A4 | A4/1 to 9 |  | Y | Y | - | - | Y | - |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | Y | Y | Y | Y |  | Y | - | 20 |
| 1.5 | A5 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6 | A6 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.7 | A7 | A7/1 |  | Y | Y | Y | Y | - | - |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | - | - | - |  | Y | Y | - |  | Y | Y | Y | Y | Y | Y | - | Y |  | Y | Y | 21 |
| 1.8 | A8 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.9 | A9 | A9/1 to 7 |  | Y | Y | Y | Y | - | Y |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | Y | Y | Y |  | Y | Y | - |  | Y | Y | Y | Y | Y | Y | Y | - |  | Y | Y | 26 |
| 1.10 | A10 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.11 | A11 Issue A | A11/1 to 95 |  | Y | Y | - | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | Y | - | Y |  | Y | Y | - |  | Y | Y | Y | - | Y | Y | Y | - |  | Y | Y | 22 |
| A11 Issue B | A11/94 and 96 |  | Y | Y | - | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | Y | - | - |  | Y | Y | - |  | Y | Y | Y | Y | Y | Y | Y | - |  | Y | Y | 22 |
| Issue C | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.12 | A12 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.13 | A13 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.14 | A14 | A14/1 to 3 |  | Y | Y | - | - | - | Y |  |  | Y | - | Y | - |  | Y | - | Y | Y |  | - | - | - |  | Y | - | - |  | Y | Y | Y | - | Y | Y | Y | - |  | Y | - | 16 |
| 1.15 | A15 | A15/1 to 3 |  | - | - | Y | Y | - | - |  |  | Y | Y | - | - |  | - | - | Y | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | Y | Y | Y | - | - |  | Y | Y | 16 |
| 1.16 | A16 | A16/1 to 6 and 8 |  | - | - | Y | Y | Y | - |  |  | Y | Y | - | Y |  | Y | - | Y | Y |  | - | - | - |  | Y | Y | - |  | - | Y | Y | Y | Y | Y | - | - |  | Y | - | 17 |
| A16/ 7 |  | - | - | Y | - | Y | - |  |  | Y | Y | - | Y |  | Y | - | Y | Y |  | - | - | - |  | Y | Y | - |  | - | Y | Y | Y | Y | Y | - | - |  | Y | - | 16 |
| 1.17 | A17 | A17/1 to 12 |  | - | Y | Y | Y | Y | - |  |  | Y | Y | - | Y |  | Y | - | Y | Y |  | Y | Y | - |  | Y | - | - |  | Y | Y | - | Y | Y | Y | - | Y |  | Y | - | 20 |
| 1.18 | A18 | A18/1 to 3 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | Y | Y | Y |  | - | Y | - |  | Y | Y | Y | - | Y | Y | - | - |  | Y | Y | 20 |
| 1.19 | A19 | A19/1 to 10 |  | - | Y | Y | - | - | Y |  |  | Y | - | Y | - |  | Y | - | Y | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | Y | Y | - | - |  | Y | - | 16 |
| 2 | A20 | A20/1 to 52 |  | Y | - | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | - | Y | Y |  | Y | Y | - |  | Y | Y | Y | - | Y | Y | Y | Y |  | - | Y | 22 |
| 4 | A21 | A21/1 to 26 |  | Y | - | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | Y | Y |  | - | Y | - |  | Y | Y | - |  | Y | Y | Y | - | Y | Y | Y | Y |  | - | Y | 21 |
| 7 (A) | A22-A1 | A22-A1/1 to 6 |  | - | - | Y | - | Y | Y |  |  | Y | Y | Y | - |  | Y | - | - | Y |  | - | - | Y |  | Y | - | - |  | Y | Y | Y | Y | Y | Y | Y | Y |  | - | Y | 19 |
| 7 (B) | A22-A2 | A22-A2/1 to 3 |  | Y | - | Y | - | - | Y |  |  | - | - | Y | - |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | Y | Y | Y | Y | - |  | Y | Y | 17 |
| 7 (C) | A22-A3 | A22-A3/1 to 6 |  | - | - | - | - | - | Y |  |  | Y | - | Y | - |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 13 |
| 7 (D1) | A22-A4 | A22-A4/1 to 3 |  | Y | - | Y | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | Y | Y | - |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 18 |
| 7 (D2) | A22-A5 | A22-A5/1 |  | Y | - | Y | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | Y | Y | - |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 18 |
| 7 (D3) | A22-A6 | A22-A6/1 to 8 |  | Y | - | Y | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | Y | Y | Y |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 19 |
| 7 (E) | A22-A7 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 7 (F) | A22-A8 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 (G) | A22-A9 | A22-A9/1 |  | Y | - | - | - | - | Y |  |  | Y | Y | Y | - |  | Y | - | - | Y |  | - | - | - |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 14 |
| 7 (H) | A22-A10 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| 7 (I) | A22-A11 | A22-A11/1 to 8 |  | Y | - | Y | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | - | Y | Y | Y | Y | - |  | - | Y | 18 |
| 7 (J) | A22-A12 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 (K) | A22-A13 | A22-A13/1 |  | Y | - | - | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 16 |
| 8 | A23 | A23/1 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | - |  | Y | - | - | Y |  | - | Y | - |  | - | - | - |  | Y | Y | Y | - | - | Y | Y | Y |  | - | Y | 16 |
| 9.1a | A24-A1 | A24-A1/1 to 2 |  | Y | - | Y | - | - | Y |  |  | Y | - | - | Y |  | Y | - | Y | Y |  | Y | - | Y |  | Y | Y | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 18 |
| 9.1b | A24-A2 | A24-A2/1 to 2 |  | Y | - | Y | - | - | - |  |  | Y | - | Y | Y |  | - | - | Y | Y |  | Y | - | - |  | Y | - | - |  | Y | Y | - | Y | Y | Y | Y | - |  | - | Y | 16 |
| 9.1c | A24-A3 | A24-A3/1 to 4 |  | Y | Y | Y | - | Y | - |  |  | Y | - | Y | Y |  | Y | - | Y | Y |  | Y | Y | Y |  | Y | Y | - |  | Y | Y | Y | Y | Y | Y | Y | - |  | - | Y | 23 |
| 9.1d | A24-A4 | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Res. 427 (WRC-19) | A24-A5 | A24-A5/1 to 4 |  | Y | - | - | - | - | Y |  |  | Y | Y | - | Y |  | Y | - | Y | Y |  | - | Y | Y |  | - | - | - |  | Y | Y | - | - | Y | Y | Y | - |  | - | Y | 16 |
| Res. 655 (WRC-15) | A24-A6 | A24-A6/1 |  | Y | - | - | - | - | Y |  |  | - | - | - | Y |  | Y | - | Y | Y |  | Y | - | - |  | Y | Y | - |  | Y | Y | - | Y | Y | Y | Y | - |  | - | - | 15 |
| 9.2 |  |  | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.3 |  |  | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | A27-A1 | A27-A1/1 to 4 |  | Y | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | Y |  | Y | Y | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 20 |
| A27-A2 | A27-A2/1 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 17 |
| A27-A3 | A27-A3/1 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | - | Y |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 17 |
| A27-A4 | A27-A4/1 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | - | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 16 |
| A27-A5 | A27-A5/1 |  | Y | Y | Y | - | - | Y |  |  | Y | - | Y | - |  | Y | - | - | Y |  | - | - | - |  | Y | Y | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 16 |
| A27-A6 | A27-A6/ 1 to 2 |  | - | Y | - | - | - | - |  |  | Y | - | - | Y |  | Y | - | - | Y |  | - | - | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 11 |
| A27-A7 | A27-A7/1 to 2 |  | - | Y | Y | - | Y | - |  |  | Y | - | - | - |  | Y | - | - | Y |  | - | - | - |  | Y | - | - |  | - | Y | Y | - | - | Y | - | - |  | - | - | 10 |
| A27-A8 | A27-A8/1 |  | - | Y | Y | - | Y | - |  |  | Y | - | - | Y |  | Y | - | - | Y |  | - | - | Y |  | - | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 13 |
| A27-A9 | A27-A9/1 to 2 |  | - | Y | - | - | - | - |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | - | Y | Y | - | - | Y | Y | - |  | - | - | 13 |
| A27-A10 | A27-A10/1 to 2 |  | Y | Y | - | - | - | - |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | Y | Y | - |  | Y | Y | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 18 |
| A27-A11 | A27-A11/1 |  | - | Y | - | - | - | - |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | - | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 14 |
| A27-A12 | A27-A12/1 |  | - | Y | - | - | - | - |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | - | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 13 |
| A27-A13 | A27-A13/1 to 2 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | - |  | - | - | - | Y |  | - | - | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 13 |
| A27-A14 | A27-A14/1 to 2 |  | - | Y | Y | - | - | Y |  |  | Y | Y | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | Y | Y | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 17 |
| A27-A15 | A27-A15/1 |  | - | Y | - | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 14 |
| A27-A16 | A27-A16/1 to 2 |  | - | Y | - | - | - | - |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | - | 13 |
| A27-A17 | A27-A17/1 |  | - | Y | Y | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | Y | Y | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | - | - |  | - | Y | 16 |
| A27-A18 | A27-A18/1 |  | - | Y | - | - | - | Y |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | Y | - | - |  | Y | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 15 |
| A27-A19 | A27-A19/1 |  | - | Y | Y | - | - | - |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | - | - | - |  | - | - | - |  | Y | Y | Y | - | - | Y | Y | - |  | - | Y | 13 |
| A27-A20 | A27-A20/1 to 2 |  | Y | Y | Y | - | - | - |  |  | Y | - | Y | Y |  | Y | - | - | Y |  | - | Y | - |  | - | - | - |  | Y | Y | Y | Y | Y | Y | Y | Y |  | - | - | 17 |
| A27-A21 | A27-A21/1 to 2 |  | - | Y | - | - | - | - |  |  | Y | - | Y | Y |  | Y | Y | - | Y |  | - | Y | - |  | Y | - | - |  | - | Y | Y | Y | Y | Y | Y | Y |  | - | - | 16 |
| WRC-19 Doc. 550/RR21.5 | - | - | No ACP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANNEX 3

List of APG Management TEAM AND AI Coordinators at WRC-23

**APG-23 Management Team**

|  |  |
| --- | --- |
| **Designation** | **Name** |
| Chair, APG-23 | Dr Kyu-Jin Wee (Republic of Korea)  [kjwee56@hotmail.com](mailto:kjwee56@hotmail.com) |
| Vice-Chair, APG-23 | Mr Muneo Abe (Japan)  [abe.muneo@cj.mitsubishielectric.co.jp](mailto:abe.muneo@cj.mitsubishielectric.co.jp) |
| Ms. Zhu Keer (People’s Republic of China)  [zhukeer@miit.gov.cn](mailto:zhukeer@miit.gov.cn) |
| Chair, Editorial Committee, APG-23 | Mr Christopher Hose (Australia)  [Christopher.Hose@acma.gov.au](mailto:Christopher.Hose@acma.gov.au) |
| Special Senior Advisor to APG | Mr Kavouss Arasteh (Islamic Republic of Iran)  [kavouss.arasteh@gmail.com](mailto:kavouss.arasteh@gmail.com) |

| **WP 1:Fixed, Mobile and Broadcasting Issues** | |
| --- | --- |
| **Group Coordinator** | **Agenda Item Coordinator** |
| **Dr Hiroyuki Atarashi**  **Dr Jae Woo Lim** Co-Chairs WP1 | AI1.1: Mr Fierza Mutuahdi Pasaribu (Rep. of Indonesia)  [fier001@kominfo.go.id](mailto:fier001@kominfo.go.id)  Mr Kavouss Arasteh (Islamic Republic of Iran)  [kavouss.arasteh@gmail.com](mailto:kavouss.arasteh@gmail.com) |
| AI1.2: Dr Tan Wang (People’s Republic of China)  [wangtan@srrc.org.cn](mailto:wangtan@srrc.org.cn) |
| AI1.3: Dr Azim Fard (Islamic Republic of Iran)  [azimfard@cra.ir](mailto:azimfard@cra.ir) |
| AI1.4: Mr Shiro Fukumoto (Japan)  [shiro.fukumoto01@g.softbank.co.jp](mailto:shiro.fukumoto01@g.softbank.co.jp) |
| AI1.5: Dr Azim Fard (Islamic Republic of Iran)  [azimfard@cra.ir](mailto:azimfard@cra.ir) |
| AI9.1c): Mr Yongseok Seo (Republic of Korea)  [on1yys@korea.kr](mailto:on1yys@korea.kr) |
| WRC Document 550 (RR21.5): Mr Dong Zhou (People’s Republic of China)  [zhou.dong1@zte.com.cn](mailto:zhou.dong1@zte.com.cn)  Mr Kavouss Arasteh (Islamic Republic of Iran)  [kavouss.arasteh@gmail.com](mailto:kavouss.arasteh@gmail.com) |
| **WP 2: Aeronautical and Maritime Issues** | |
| **Mr Bui Ha Long**  Chair WP2 | AI1.6: Mr Wei Tan (People’s Republic of China)  [tanwei@bittt.cn](mailto:tanwei@bittt.cn) |
| AI1.7: Mr Kok Pin Puah (Singapore)  [puah\_kok\_pin@caas.gov.sg](mailto:puah_kok_pin@caas.gov.sg)  Mr Henry Foo (Singapore)  [henry\_foo@imda.gov.sg](mailto:henry_foo@imda.gov.sg) |
| AI1.8: Ms. Takako Kitahara (Japan)  [takako\_kitahara@mri.co.jp](mailto:takako_kitahara@mri.co.jp)  Mr Kavouss Arasteh (Islamic Republic of Iran)  [kavouss.arasteh@gmail.com](mailto:kavouss.arasteh@gmail.com) |
| AI1.9: Mr Glenn Odlum (Australia)  [glenn.odlum@novasystems.com](mailto:glenn.odlum@novasystems.com)  Mr Matthew Kelly (Australia)  [matthew.kelly@airservicesaustralia.com](mailto:matthew.kelly@airservicesaustralia.com) |
| AI1.10: Dr Jicheng Fang (People’s Republic of China)  [jchfang@163.com](mailto:jchfang@163.com) |
| AI1.11:  Issue A: Mr Yoshio Miyadera (Japan)  [miyadera.yoshio@jrc.co.jp](mailto:miyadera.yoshio@jrc.co.jp)  Issue B: Dr Byungok Kim (Korea)  kimbo60@hanmail.net  Issue C: Ms. Xia Ge (People’s Republic of China)  [gexia@bsnc.com.cn](mailto:gexia@bsnc.com.cn) |
| Res. 427: Mr Bui Ha Long (Viet Nam)  [longbh@rfd.gov.vn](mailto:longbh@rfd.gov.vn) |
| **WP 3: Science Issues** | |
| **Dr Wahyudi Hasbi** Chair WP3 | AI1.12: Mr Kevin Knights (Australia)  [kevin.knights@csiro.au](mailto:kevin.knights@csiro.au) |
| AI1.13: Mr Rui Han (People’s Republic of China)  [hanrui@srrc.org.cn](mailto:hanrui@srrc.org.cn), [henryxju@gmail.com](mailto:henryxju@gmail.com) |
| AI1.14: Dr Balthasar Indermuehle (Australia)  [Balt.Indermuehle@csiro.au](mailto:Balt.Indermuehle@csiro.au) |
| AI9.1a): Mr Takahiro Yokoyama (Japan)  [t.yokoyama@joy.ocn.ne.jp](mailto:t.yokoyama@joy.ocn.ne.jp) |
| AI9.1d): Dr Hwangjae Rhee (Republic of Korea)  [rhee@korea.kr](mailto:rhee@korea.kr) |
| Res.655: Mr Takahiro Yokoyama (Japan)  [t.yokoyama@joy.ocn.ne.jp](mailto:t.yokoyama@joy.ocn.ne.jp) |
| **WP 4: Satellite Issues** | |
| **Ms. Fenhong Cheng**  **Mr Mrunmaya Pattanaik** Co-Chairs WP4 | AI1.15: Mr Phung Nguyen Phuong (Socialist Republic of Viet Nam)  [phuongpn@rfd.gov.vn](mailto:phuongpn@rfd.gov.vn) |
| AI1.16: Mr Yusuke Fukui (Japan)  [yu-fukui@kddi.com](mailto:yu-fukui@kddi.com) |
| AI1.17: Ms. Sofi (India)  [sofi@isro.gov.in](mailto:sofi@isro.gov.in) |
| AI1.18: Dr Daesub Oh (Republic of Korea)  [trap@etri.re.kr](mailto:trap@etri.re.kr) |
| AI1.19: Mr Reza Naderi (Islamic Rep. of Iran)  [reza.naderi.j@gmail.com](mailto:reza.naderi.j@gmail.com) |
| AI7:  ***Topics A, B, F, H:***  Ms. Ting Ling Lee (Singapore)  [tingling.lee@ses.com](mailto:tingling.lee@ses.com)  ***Topics D, E, I, J, K:***  Ms. Geetha Remy Vincent (Malaysia)  [geetha@measat.com](mailto:geetha@measat.com)  ***Topics C, G:***  Ms. Zhang Chi (Peoples’ Rep. of China)  [meganzc@163.com](mailto:meganzc@163.com) |
| **WP 5: General Issues** | |
| **Dr Mohammad Taghi Shafiee** Chair WP5 | AI2&4: Ms. Keiko Mori (Japan)  [keikom@wcore.com](mailto:keikom@wcore.com) |
| AI8: Dr Mohammad Taghi Shafiee (Islamic Rep. of Iran) [shafiee@cra.ir](mailto:shafiee@cra.ir) |
| AI9.1 b): Mr Peter Pokorny (Australia)  [peter.pokorny2@bigpond.com](mailto:peter.pokorny2@bigpond.com) |
| AI9.2:  (Space Issues) Mr Paul Burford (Australia)  [paul.burford@defence.gov.au](mailto:paul.burford@defence.gov.au)  (Terrestrial Issues) Mr David Murray (Australia)  [David.Murray@communications.gov.au](mailto:David.Murray@communications.gov.au) |
| AI10:  For the complete list of AI10 Topic Coordinators please check the attached list. |

**Detail arrangement for Agenda Item 10 Topics**

**Agenda Item 10 – General Issues**

|  |  |
| --- | --- |
| **Issue** | **APT Coordinator** |
| **Issue 1:** Draft Resolution for WRC-27 agenda and Draft Resolution for WRC-31 preliminary agenda | Dr Mohammad Taghi Shafiee (Islamic Rep. of Iran)  [shafiee@cra.ir](mailto:shafiee@cra.ir) |
| **Issue 2a:** Modification to Resolution 804 (Rev.WRC-19) |
| **Issue 2b:** Elements are proposed to be included in terms of reference of WRC-23 working group responsible for agenda item 10 |
| **Issue 3:** Input parameters for ITU-R studies to be carried out by various ITU-R study groups/working parties for relevant WRCs agenda items |

**Agenda Item 10 – Fixed, Mobile, and IMT Issues**

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| --- | --- |
| **Issue** | **APT Coordinator** |
| **Issue 1:** **New MS allocation in 1300 -1350 MHz**  (WRC-27 preliminary agenda item 2.9) | Dr Hyoung Jin Choi (Republic of Korea)  [hj686.choi@samsung.com](mailto:hj686.choi@samsung.com) |
| **Issue 2:** **Allocation of 275-325 GHz** | Dr Chin Sean Sum (Japan)  [cssumnict@gmail.com](mailto:cssumnict@gmail.com) |
| **Issue 3:**  **Removal the limitation of except aero mobile for MS in 694-960 MHz (R1 issue)**  WRC-27 Preliminary agenda item 2.12  **APT:**  **Removal the limitation of except aero mobile for MS in [3 400-3 700 MHz]** (Similar to Preliminary agenda item 2.12) | Mr Amit Gulati (India)  [amit.gulati@nic.in](mailto:amit.gulati@nic.in) |
| **Issue 4:** **Wireless Power Transmission (WPT)** | Mr Satoshi Kobayashi (Japan)  [s-koba@suite.plala.or.jp](mailto:s-koba@suite.plala.or.jp) |
| **Issue 5:** **IMT issues** | Coordinator:  Dr Harsh Tataria (New Zealand)  [harsh.tataria@mbie.govt.nz](mailto:harsh.tataria@mbie.govt.nz)  Co-coordinators:  Ms. Ye Min (People’s Rep. of China)  [amy.yemin@huawei.com](mailto:amy.yemin@huawei.com)  Mr Punit Rathod (India)  [punit@qti.qualcomm.com](mailto:punit@qti.qualcomm.com) |

**Agenda Item 10 – Satellite Issues**

| **Issue** | **APT Coordinator** |
| --- | --- |
| **Issue 1:** **FSS allocation in [43.5-45.5 GHz]**  (WRC-27 preliminary agenda 2.3) | Mr Nguyen Huy Cuong (Viet Nam)  [cuongnh@rfd.gov.vn](mailto:cuongnh@rfd.gov.vn) |
| **Issue 2:** **Determining pfd/e.i.r.p. limits in Article 21 for 71-76 and 81-86 GHz**  (WRC-27 preliminary agenda 2.4) | Dr Mohammad Taghi Shafiee (Islamic Rep. of Iran)  [shafiee@cra.ir](mailto:shafiee@cra.ir) |
| **Issue 3:** **Narrowband MSS in [1.5 – 5] GHz**  (WRC-27 preliminary agenda 2.13) | Dr Liu Huiliang (People’s Rep. of China)  [liuhl15@tsinghua.org.cn](mailto:liuhl15@tsinghua.org.cn) |
| **Issue 4:** **Non-GSO feeder link in 71-76 GHz and 81-86 GHz**  (WRC-27 preliminary agenda 2.7) | Ms. Chen Jing (People’s Rep. of China)  [chenj@cn-satnet.com](mailto:chenj@cn-satnet.com) |
| **Issue 5:** **Non-GSO space link in 1.5/1.6 GHz**  (WRC-27 preliminary agenda 2.8) | [TBD] |
| **Issue 6:** **Aeronautical and maritime GSO ESIM**  (WRC-27 preliminary agenda 2.2) | Mr Jim Weller (Australia)  [jim.weller@wellcommsolutions.com.au](mailto:jim.weller@wellcommsolutions.com.au) |
| **Issue 7:** **New FSS/BSS allocations (Region 3) in 17.3-17.7 GHz** | Dr Andrew Kerans (Australia)  [andrew.kerans@gmail.com](mailto:andrew.kerans@gmail.com) |
| **Issue 8: non-GSO FSS in 51.4-52.4 GHz** | Ms. Jamie Rose Sy (Singapore)  [Jamie.Rose.Sy@ses.com](mailto:Jamie.Rose.Sy@ses.com) |
| **Issue 9:** **MSS allocations below 4 GHz** | Coordinator:  Dr Seong-Jun Oh (Rep. of Korea)  [seongjun@korea.ac.kr](mailto:seongjun@korea.ac.kr)  Co-coordinators:  Ms. Chen Jing (People’s Rep. of China)  [chenj@cn-satnet.com](mailto:chenj@cn-satnet.com)  Mr Ryusuke Utsunomiya (Japan)  [ryusuke.utsunomiya@rakuten.com](mailto:ryusuke.utsunomiya@rakuten.com)  Mr Bharat Bhatia (India)  [bharat.bhatia@itu-apt.org](mailto:bharat.bhatia@itu-apt.org) |
| **Issue 10:** **FSS in the 13.75-14 GHz band** | Mr Oki Baskoro Rachmat (Singapore)  [Oki.Rachmat@Intelsat.com](mailto:Oki.Rachmat@Intelsat.com) |
| **Issue 11:** **non-GSO sharing with GSO in 11/14 and 20/30 GHz** | Ms. Zhang Bo (People’s Rep. of China)  [bo.zhang4969@gmail.com](mailto:bo.zhang4969@gmail.com) |
| **Issue 12:** **regulatory framework for non-GSO FSS** | Ms. Zhang Bo (People’s Rep. of China)  [bo.zhang4969@gmail.com](mailto:bo.zhang4969@gmail.com) |

**Agenda Item 10 – Science Issues**

| **Issue** | **APT Coordinator** |
| --- | --- |
| **Issue 1:** **compatibility of satellite services with passive services in 71-76 GHz and 81-86 GHz**  (WRC-27 preliminary agenda item 2.5) | Mr Takahiro Yokoyama (Japan)  [t.yokoyama@joy.ocn.ne.jp](mailto:t.yokoyama@joy.ocn.ne.jp) |
| **Issue 2:** **EESS (E-to-s) allocation in 22.55-23.15 GHz**  (WRC-27 preliminary agenda item 2.11) | Mr Takahiro Yokoyama (Japan)  [t.yokoyama@joy.ocn.ne.jp](mailto:t.yokoyama@joy.ocn.ne.jp) |
| **Issue 3:** **Coexistence between SAR and RDS in 10 GHz**  Technical and regulatory measures to ensure coexistence between spaceborne SAR and RDS in the frequency band 9.2-10.4 GHz | Dr Fang Jicheng (People’s Rep. of China)  [jchfang@163.com](mailto:jchfang@163.com) |
| **Issue 4:** **space weather sensors** (WRC-27 preliminary agenda item 2.6) | Mr Takahiro Yokoyama (Japan)  [t.yokoyama@joy.ocn.ne.jp](mailto:t.yokoyama@joy.ocn.ne.jp) |

**Agenda Item 10 – Radiolocation, Aeronautical and Maritime Issues**

|  |  |
| --- | --- |
| **Issue** | **APT Coordinator** |
| **Issue 1:** **New allocations to radiolocation in 231.5-275 GHz** (WRC-27 preliminary agenda item 2.1) | Dr Chin Sean Sum (Japan)  [cssumnict@gmail.com](mailto:cssumnict@gmail.com) |
| **Issue 2:** **VHF maritime frequencies in Appendix 18**  (WRC-27 preliminary agenda item 2.10) | Mr Yoshio Miyadera (Japan)  [miyadera.yoshio@jrc.co.jp](mailto:miyadera.yoshio@jrc.co.jp)  Mr Stuart Shepard (Australia)  [stuart.shepard@amsa.gov.au](mailto:stuart.shepard@amsa.gov.au) |

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