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| 1. **Agenda item 1.15** | | | | | | | | | | | | | | |
| **Agenda Item**  [Number] | | | 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)** | | | | | | | | | | | |
| **Working Group** | | | | WG 4 (Chapter 4) | | | **Sub-Working Group** | | | SWG-4A | |
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| **Report Date** | **03 April 2023** | | | | | | | | | | | | | |
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| 1. **APT** | | | | | | | | | | | | | | |
| **APT Preliminary Views**  CPM23-2/xxxx | | | | APT members could support Method B provided that the remaining elements and part of that method as referred to draft CPM Report of agenda item 1.15 are finalized and agreed. This includes the following:   * Interference management mechanism to deal with interference occurs from operation of ESIM to other administrations; * Switching facility allowing transmission over these territories of countries which agreed to be included in the service area and/or authorized operation of the service on the territory under jurisdiction and no transmission over these countries if they are not in the service areas or they have not given their authorization for operation of that ESIM; * Methodology to enable the Radiocommunication Bureau to examine the conformity with PFD limit as contained in Annexes of draft resolution; * Other elements, if identified by CPM23-2 to be discussed at the next meeting.   APT Members also have preliminary views as follows:   * The use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels shall not limit the access of other administrations to their national resources in Appendix **30B** as well as implementation of Resolution **170 (WRC‑19)**. * The use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels shall not cause unacceptable interference to nor claim protection from the operation of terrestral services and their future development. With respect to the sharing and compatibility studies between earth stations on aircraft and vessels and terrestrial services, the protection of terrestrial services shall be ensured under all circumstances and conditions in the various sharing scenario. * The implementation of ESIM shall ensure the protection of and shall not adversely affect the existing services and their future development, taking in to account allotment in the Plan, assignment in Appendix 30B List and those submitted under Articles 6 and 7 of Appendix 30B as well as under Resolution 170 (WRC-19). * Supports the development of a methodology regarding examination by the Bureau of compliance with PFD limits by A-ESIM, or of adequate transitional measures should WRC‐23 not finalize the methodology. * The use of earth stations on board aircraft and vessels shall not cause unacceptable interference (more than what is stipulated in relevant annexes to **AP30B** of the Radio Regulations) to allotments, assignments converted from allotments within the limits of initial characteristics as contained in Plan or modified characteristics, for providing services to national territory as well as those from application of Article 6 and 7 of **AP30B** and those submitted under Resolution **170 (WRC-19)** as well as all existing and planned services in that frequency band and adjacent bands operating in accordance with the Radio Regulations. * Earth stations on board aircraft and vessels shall not claim protection from the allotment plan, assignments in the List of **AP30B** for national coverage, and other services including terrestrial services to which the frequency band is allocated and operating in accordance with the provisions of Radio Regulations. * With respect to the sharing and compatibility studies between earth stations on board aircraft and vessels communicating with geostationary space stations in the fixed-satellite service and the fixed service in the frequency band 12.75-13.25 GHz, both long-term and short-term interference scenarios under relevant ITU-R Recommendations should be considered and carried out in these studies. * For the operation of A-ESIM and M-ESIM, the technical, operational and regulatory provisions including responsibilities of administrations and entities responsible for the operation, authorization and the interference management system of these earth stations need to be clearly defined. * The only administration that could notify ESIM is the same administration as the one notifying the GSO network to which the ESIM communicate. Thus, notification of any frequency assignment for ESIMs shall only be made by one single administration, which will be responsible for resolving potential interferences, operational issues and monitoring of ESIM to comply with Radio Regulations as well as other tasks mentioned in the associated Resolution. Therefore, the notifying administration of the satellite system is responsible for the compliance of ESIM with all relevant regulatory and administrative provisions including cases of interferences. * An administration the territory of which is situated inside the service area of a satellite and has provided explicit authorization to receive the service/ to be served by any type of ESIM, unless that administration has formally and explicitly agreed to collaborate within its technical ability and possibility to provide assistance, has no obligation nor any mandate, whatsoever, to be involved directly or indirectly in detection, identification, reporting, resolution of any interference caused by the operation of the ESIM the operation of which was authorized. * The notifying administration of the GSO satellite network is also responsible for ensuring that ESIMs operate only in the territories under the jurisdiction of any administration/country which: * located within the service area of the space station; * explicit agreement to that effect was obtained and; * the required authorization for operation over its territory was sought and explicitly granted from which explicit authorization has been obtained. * A-ESIM and M-ESIMs in the 12.75‑13.25 GHz band need to have the capability to restrict operations in territories of those administrations the agreement of which under §6.6 of Appendix 30B has been obtained and authorization for A-ESIM and M-ESIM operations has been granted. * Regarding the use of PFD mask in A-ESIM operation, it is an acceptable way to provide a PFD mask as guidance to administration intending to authorize the operation of the A-ESIMs to determine whether or not the interference which may be caused to its terrestrial stations/assignments are acceptable. * The notifying administration of A ESIM and M ESIM when submitting Appendix 4 data elements to the Bureau shall also send a firm commitment undertaking that in case of any interference to Allotment in the Plan, assignments in the List and MIFR shall immediately cease emission or reduce it to the minimum level acceptable to the interfered assignments of administration (s). * The compliance with the relevant technical conditions (such as the PFD mask of A-ESIM and separation distance of M-ESIM) does not release the notifying administration of the ESIM with respect to discharging its responsibility that such earth station shall not cause unacceptable interference to nor claim protection from terrestrial stations/ assignments. * An administration authorizing the operation of A-ESIM and M-ESIM in their territories (air space and territorial waters) shall be within the service area of the subject satellite network and authorize the operation of the associated gateway earth station as needed. * Any transmissions from M-ESIM within the minimum distance, as specified in the Resolution for this agenda item, in order to protect terrestrial services shall be subject to prior agreement of the concerned administration. * For M-ESIM with respect to the terrestrial service, both long-term and short-term interference scenarios should be considered, in which [133 or X] km should be treated as the minimum distance for M-ESIM sharing and compatibility with FS from the low-water mark as officially recognized by the coastal State. * There are still several issues on the operation of ESIMs to be clarified and specified in the Draft New Resolution, such as interference management mechanism and its due functionality. Moreover the proper function of switching facility to respond to authorization provided for the operation of ESIM as well as exclusion of territory of countries that did not agree with operation.   \* X: The minimum distance ranges from 86 – 190 km as the current result of ITU-R WP4A studies. | | | | | | | | | | |
| **APT Views for modification of CPM Report**  CPM23-2/xxxx | | | |  | | | | | | | | | | |
| **Outcome from earlier**  **APT Coord meeting** | | | |  | | | | | | | | | | |
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| 1. **Other regional groups** | | | | | | | | | | | | | | |
|  | | **ATU** | | | | **ASMG** | | | **CEPT** | | | **CITEL** | | **RCC** |
| **Input(s)** | | CPM23-2/137-E | | | | CPM23-2/36-E | | | CPM23-2/72-E | | | CPM23-2/xxxx | | CPM23-2/xxxx |
| **Summary of views/proposals** | |  | | | |  | | |  | | |  | |  |
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| 1. **Summary of discussions during CPM23-2** | | | | | | | | | | | | | | |
| **Working documents/TEMPs etc** | | | | | Input documents: [Doc 1 + Corrigendum](https://www.itu.int/md/R19-CPM23.2-C-0001/en) (Draft CPM Report), [Doc 2](https://www.itu.int/md/R19-CPM23.2-C-0002/en) (IMO), [Doc 16](https://www.itu.int/md/R19-CPM23.2-C-0016/en) (ICAO), [Doc 36](https://www.itu.int/md/R19-CPM23.2-C-0036/en) (ASMG), [Doc 63](https://www.itu.int/md/R19-CPM23.2-C-0063/en) (CHN), [Doc 72](https://www.itu.int/md/R19-CPM23.2-C-0072/en) (CEPT), [Doc 108](https://www.itu.int/md/R19-CPM23.2-C-0108/en) (IRN), [Doc 127](https://www.itu.int/md/R19-CPM23.2-C-0127/en) (AUS), [Doc 137](https://www.itu.int/md/R19-CPM23.2-C-0137/en) (ATU), [Doc 169](https://www.itu.int/md/R19-CPM23.2-C-0169/en) (RUS), [Doc 187](https://www.itu.int/md/R19-CPM23.2-C-0187/en) (SNG), [Doc 218](https://www.itu.int/md/R19-CPM23.2-C-0218/en) (KOR), [MEX Input AI 1.15](https://extranet.itu.int/rsg-meetings/cpm/_layouts/15/WopiFrame.aspx?sourcedoc=%7B4CC60AC2-C5F6-4681-A4DC-E58D3AA5A76D%7D&file=MEX%20Contribution%20-%20CPM23-2%20AI%201.15.docx&action=default) (MEX) | | | | | | | | | |
| The SWG-4A AI 1.15 received 13 contributions from IMO, ICAO, ASMG, CEPT, ATU and 7 countries on modification to draft CPM text.  **The SWG-4A AI 1.15 met sixth times:**  The two meetings on 29/3 and 30/3, all submitted documents have been presented.  The meeting consider as a preliminary view for the following proposed modifications:   * with respect to to No.1.1.5 and Annex 3, Canada, Iran, Egypt, Saudi Arabia, Ghana and South Sudan disagreed with the proposal to change the Word “should” to “shall”; * with respect to No. 1.1.7, 1.1.8 and 1.1.9, Egypt, Iran do not agree to transfer these provisions from “*Resolves”* part to “Noting” Part. * With repsect to “Note” under section of 3.2 relating to Control and monitoring of ESIMs, Iran highlighted on this Note and disagreed to delete the Note. * With respect to Options, Some countries prefer Option 2, others object assignments recorded under 6.25 of the Appendix. * Some comments and questions have been made for presented documents   Four other meetings: SWG-4A AI 1.15 consider the consolidate document combined all proposed modification of CPM text submitted. SWG-4A AI 1.15 have completed some parts of documents.  Due to complexity of this AI, APT members are encouraged to following the drafting groups.  In order to facilite the work of AI 1.15, AI 1.16 due to nature of these agenda items having similar problems, the meeting established Joint SWG-4A (a.i. 1.15) and 4B (a.i. 1.16).  **Joint SWG-4A (a.i. 1.15) and 4B (a.i. 1.16) met fourth times to consider:**   * Proposed *resolves* on responsibilities of administrations for the operations of ESIMs; * Proposed *resolves* on technical and operational requirements of ESIMs to prevent interference from occurring; * Proposed CPM text to describe the interference management capabilities and procedures applicable to ESIMs. | | | | | | | | | | | | | | |
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| 1. **Issue(s) which require discussion and further guidance at APG Coordination meeting** | | | | | | | | | | | | | | |
| [if any] | | | | | | | | | | | | | | |