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| **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | A close up of a sign  Description automatically generated |
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|  | **19 August 2023** |
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| Asia-Pacific Telecommunity Common Proposals | |
| Proposals for the work of the conference | |
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| Agenda item 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-19)**

Resolution **804 (Rev.WRC-19)** - Principles for establishing agendas for world radiocommunication conferences

**Introduction**

APT Members support the modification to the Resolution **775 (WRC-19)** and inclusion of WRC-27 agenda item 2.4 in the preliminary agenda of WRC-31.

**Proposals**

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RESOLUTION [ACP/AI10\_WRC-31\_Agenda] (WRC‑23)

Preliminary agenda for the 2031 World Radiocommunication Conference

The World Radiocommunication Conference (Dubai, 2023),

…

resolves

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 the following items and take appropriate action:

2.x inclusion of power flux-density (pfd) and equivalent isotropically radiated power (e.i.r.p.) limits in Article **21** of the Radio Regulations for satellite services (FSS, MSS, and BSS) to protect the fixed service in the frequency bands 71-76 GHz and 81-86 GHz in accordance with Resolution **[775 (Rev. WRC‑23)]**

….

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RESOLUTION 775 (WRC‑23)

Power flux-density (pfd) and equivalent isotropically radiated power (e.i.r.p.) limits for satellite services (FSS, MSS, and BSS) to protect the fixed service   
in the frequency bands 71-76 GHz and 81-86 GHz

The World Radiocommunication Conference (Dubai, 2023),

considering

*a)* that WRC‑2000 made a number of different allocation changes to the frequency bands 71-76 GHz and 81-86 GHz based on the requirements known at the time;

*b)* that the frequency bands 71-76 GHz and 81-86 GHz are allocated on a primary basis, among other services, to the fixed service globally;

*c)* that the frequency band 71-76 GHz is also allocated to the fixed-satellite service (FSS) (space-to-Earth) and the mobile-satellite service (MSS) (space-to-Earth) and the frequency band 74-76 GHz is allocated to the broadcasting-satellite service;

*d)* that the frequency band 81-86 GHz is also allocated to the FSS and MSS (Earth-to-space);

*e)* that sharing conditions between the fixed service and satellite services in the frequency bands 71-76 GHz and 81-86 GHz could not be fully developed at WRC‑2000 due to lack of available information on these services at the time;

*f)* that now, more than 20 years on, there have been a number of significant technology advances and changes in network requirements in the fixed service, and the frequency bands 71-76 GHz and 81-86 GHz have become strategically important frequency bands for high-capacity fixed-service links, including backhaul for future mobile networks;

*g)* that WRC‑12 already addressed sharing and compatibility issues between the fixed service and passive services in the frequency bands 71-76 GHz and 81-86 GHz and relevant adjacent frequency bands,

recognizing

*a)* that there is now much more information available in the ITU Radiocommunication Sector (ITU‑R) on the characteristics and deployment of fixed-service systems;

*b)* that there are an increasing number of satellite filings in the frequency bands 71-76 GHz and 81-86 GHz;

*c)* that Article **21** and other provisions of the Radio Regulations currently do not contain the necessary technical and regulatory provisions to protect the fixed-service in the frequency bands 71-76 GHz and 81-86 GHz;

*d)* that Resolution **750 (Rev.WRC‑19)** already contains necessary provisions to protect passive services in the frequency bands and adjacent frequency bands from emissions of the fixed service in the frequency bands 71-76 GHz and 81-86 GHz, and there is no intention to change these provisions;

*e)* that there is no intention to change the existing allocations or status of those allocations in Article **5** of the Radio Regulations for the frequency bands 71-76 GHz and 81-86 GHz,

resolves to invite the ITU-R to conduct and complete in time for WRC-31

to conduct 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** of the Radio Regulations for satellite services (FSS, MSS, and BSS) to protect the fixed service in the frequency bands 71-76 GHz and 81-86 GHz,

resolves to invite the WRC-31

to consider the results of ITU-R studies as described in resolves to invite the ITU-R to conduct and complete in time for WRC-31, and include, as appropriate, pfd and e.i.r.p limits in Article **21** of the Radio Regulations for satellite services (FSS, MSS, and BSS) to protect the fixed service in the frequency bands 71-76 GHz and 81-86 GHz,

invites administrations

to participate actively in the studies as described in the *invites ITU-R to conduct and complete in time for WRC-31* and provide the information required for the studies by submitting contributions to ITU‑R.

Reasons: APT Members support the modification to the Resolution **775 (WRC-19)** and inclusion of WRC-27 agenda item 2.4 in the preliminary agenda of WRC-31.

The 71-76/81-86GHz frequency bands were subject to a number of different allocation changes at WRC-2000. However, the detailed sharing conditions for Article 21 have not been developed at the time due to a lack of available information on the different services.

Given the above and that there is now much more information available on the characteristics of fixed and mobile systems as well as an increasing number of satellite filings in these frequency bands, it is considered appropriate and timely to develop pfd and eirp limits for Article **21** of the Radio Regulations to address the sharing between satellite services and the incumbent services, including fixed and mobile services, in the frequency bands referred to above under consideration.