



ITU-APT Foundation National Workshop on WRC-19 Preparations

Broadcasting Perspective on WRC-19

Rajeev Kumar

Deputy Director (Engineering)

Doordarshan (DDI)



Agenda Item 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 [COM6/6] (WRC- 15)

Resolution 658 (WRC-15) :

- to study spectrum needs in Region1 for the amateur service in the frequency band 50-54MHz;
- to study sharing between the amateur service and the mobile, fixed, radiolocation and **broadcasting services**, in order to ensure protection of these services.



Agenda Item 1.1

APT Preliminary View(s)

- Any changes made to the Radio Regulations under WRC-19 Agenda Item 1.1 shall not impose additional constraints on the existing primary allocations in the band 50 – 54 MHz in Region 3.

Broadcasting Perspective

- Any arrangement shall not impose additional constraints on the existing allocations for **broadcasting services** and its development



Agenda Item 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 [COM6/8] (WRC-15)



Agenda Item 1.3

APT Preliminary View(s)

- APT Members support the ITU-R studies in accordance with Resolution **766 (WRC-15)**
- to ensure the protection of, and also not imposing additional constraints on the existing primary services in the band 460-470 MHz and also in the adjacent bands.

Broadcasting Perspective

- to ensure the protection of, and also not imposing additional constraints on the broadcasting services in the adjacent band 470 -698 MHz.



Agenda Item 1.4

to consider the results of studies in accordance with Resolution 557 [COM6/9] (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;

Resolution 557 (WRC-15) - Consideration of possible revision of Annex 7 to Appendix 30 of the Radio Regulations.



Agenda Item 1.4

APT Preliminary View(s)

- APT members support ITU-R studies
- any possible revision of the limitations of Annex 7 to Radio Regulations Appendix **30 (Rev.WRC-15)** should not impose any constraints on all assignments for Appendix **30** for Region 3.

Broadcasting Perspective

- any possible revision of the limitations of Annex 7 to Radio Regulations Appendix **30 (Rev.WRC-15)** should not impose any constraints on **all assignments (in BSS & FSS) and their future developments** for Appendix **30** for Region 3.



Agenda Item 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 159 (WRC-15)



Agenda Item 1.6

APT Preliminary View(s)

- APT Members support ITU studies on technical and operational issues and regulatory provisions
- to ensure protection to GSO satellite networks in FSS, MSS and BSS, and other existing services in the same bands [EESS (passive) & radio astronomy].

Broadcasting Perspective

- to ensure protection to GSO satellite networks in FSS, MSS and BSS in the same band.



Agenda Item 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)

Resolution 237 (WRC-15)

- taking into account the results of ITU Radiocommunication Sector (ITU-R) studies, to consider possible global or regional harmonized frequency bands for the implementation of evolving ITS under existing mobile-service allocations,



Agenda Item 1.12

APT Preliminary View(s)

- APT Members support studies under Resolution **237 (WRC-15)** toward possible harmonization of frequency bands in existing mobile-service allocations for the implementation of evolving Intelligent Transport Systems (ITS).

Broadcasting Perspective

- Possible impact on broadcast services in 470-862 MHz



Agenda Item 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 [COM6/20] (WRC-15)

Resolution 238 (WRC-15):

to determine the spectrum needs for the terrestrial component of IMT in the frequency bands (range 24.25 - 86 GHz):

- 24.25-27.5 GHz, 37-40.5 GHz, 42.5-43.5 GHz, 45.5-47 GHz, 47.2-50.2 GHz, 50.4-52.6 GHz, 66-76 GHz and 81-86 GHz, which have allocations to the mobile service on a primary basis; and
- 31.8-33.4 GHz, 40.5-42.5 GHz and 47-47.2 GHz, which may require additional allocations to the mobile service on a primary basis.



Agenda Item 1.13

APT Preliminary View(s)

- APT Members support ITU-R studies on spectrum needs for the terrestrial component of IMT and sharing and compatibility studies in accordance with Resolution **238 (WRC-15)**.
- To ensure protection of services to which the band is allocated on a primary basis.

Broadcasting Perspective

- Any arrangement should not constrain development of broadcasting services.



Agenda Item 9.1.2

Compatibility of International Mobile Telecommunications and broadcasting satellite service (sound) in the frequency band 1452-1492 MHz in Regions 1 and 3;

Resolution 761 (WRC-15):

- to conduct, the appropriate regulatory and technical studies, to ensure the compatibility of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3;
- to prepare, *inter alia*, the regulatory action that could be taken in order to facilitate the long-term stability of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz.



Agenda Item 9.1.2

- the frequency band 1 452-1 492 MHz is allocated to the fixed service (FS), mobile service (MS), broadcasting service (BS) and broadcasting-satellite service (BSS).
- During WRC-15, this frequency band 1 452-1 492 MHz was identified for use by administrations wishing to implement IMT.

Broadcasting Perspective

- Broadcast Auxiliary Services (BAS) assignments in this frequency band under FS/MS need to be protected.

Thank You!

