

*Preliminary GSC position
for WRC-19 AI 9.1*



GLOBAL SATELLITE COALITION

AI 9.1 - Issue 9.1.3 NGSOs systems in C-band

Goal: to provide regulatory certainty and flexibility

- **Genesis:** Resolution 157 (WRC-15)
- **Issue:** Study of technical and operational issues and regulatory provisions for new non-GSO systems in the 3 700-4 200 MHz, 4 500-4 800 MHz, 5 925-6 425 MHz and 6 725-7 025 MHz bands allocated to FSS

- **Background:** to determine pfd limits necessary to protect the mobile service and fixed service, determine aggregate epfd limits necessary to protect GSO FSS systems, determine conditions for protection of feeder downlinks of non-GSO mobile-satellite service (MSS) systems, and determine conditions appropriate for sharing the spectrum and orbit resources among non-GSO satellite systems.

In the 6/4 GHz band, there is minimal degradation due to propagation losses and thus the margin for protection is almost entirely dominated by the interference statistics.

GSC Position

- No Change to the current limits in Articles 21 and 22 of the Radio Regulations particularly as ITU-R studies have shown that circular-orbit non-GSO FSS operations used for global broadband services in the examined bands could result in large exceedances when tested against Recommendation ITU-R S.1323 protection requirements to ensure compatibility of non-GSO operations with GSO networks.



GLOBAL SATELLITE COALITION

AI 9.1 - Issue 9.1.7 Unauthorised earth stations

Goal: To address concerns raised with unauthorised earth stations while preserving regulatory certainty and flexibility

- **Genesis:** Resolution 958 (WRC-19), 64 (RA-15)
- **Issue:** *Issue 2a* - 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 *Issue 2b* - the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within their respective territories, as a tool to guide their national spectrum management programme.

GSC Position

- In relation to *Issue 2a* in Annex to Resolution 958 (WRC-15), support Option 1 no change to the Radio Regulations, as Article 18 appropriately addresses the required international regulatory measures.
- In relation to *Issue 2b* in Annex to Resolution 958 (WRC-15), support ITU-R studies on best practices in training and monitoring capabilities, along with ITU developed reports and handbooks as well as capacity building, to assist national administrations in inhibiting the use of unauthorized uplink earth terminals and to enable national administrations to locate and terminate the unauthorized transmissions.
- Recognize the concerns of administrations affected by unauthorized operation of earth stations terminals and observe that there is a need to find a lasting sustainable solution.

Goal: To provide additional needed satellite spectrum in Q/V bands

- **Genesis:** Resolution 162 WRC-15)
- **Issue:** to conduct studies considering additional spectrum needs for development of the FSS and conduct sharing and compatibility studies with existing services to determine the suitability of new primary allocations to the FSS in the frequency band 51.4-52.4 GHz (Earth- to-space) limited to FSS feeder links for geostationary orbit use, and the possible associated regulatory actions.

GSC Position

- Allocate the band 51.4 – 52.4 GHz as Primary for Earth-to-space FSS GSO feeder links (which are individually licensed), ensuring that this use will protect existing services, in the band and in adjacent bands, by applying the appropriate conditions under Option 1A of the draft CPM text
- The FSS Earth stations operating in this band shall limit the unwanted emission power levels within the EESS (passive) band according to the conclusions of the studies, and this should be specified in the revision of Resolution 750 (Rev. WRC-15)