



# WRC-27 Agenda Item 1.14

Studies on possible new frequency allocations to the Mobile-Satellite Service (MSS).

#### Overview

This Agenda Item invites Administrations to undertake studies addressing technical operational and regulatory matters for additional new frequency allocations to the mobile-satellite service in the frequency bands 2 010-2 025 MHz (Earth-to-space) and 2 160-2 170 MHz (space-to-Earth) in Regions 1 and 3 and 2 120-2 160 MHz (space-to-Earth) in all Regions, in accordance with Resolution **254 (WRC-23)**.

### Background

The tremendous growth in mobile communications has led to growth in MSS which complements MS to satisfy connectivity everywhere. Since the last MSS allocations were made, the range of applications and use-cases using MSS, including Direct-to-Device (D2D) and Internet of Things (IoT), has expanded significantly, and so has MSS spectrum demands.

Additional MSS allocations in the above frequency bands will result in globally harmonized spectrum allocations for MSS.

#### **Key Points**

MSS systems implementing various applications such as D2D and IoT, are a proven, practical, and costeffective method of providing telecommunication service that contributes to global economic and social development especially in remote and underserved areas playing an important part in bridging the digital divide. Furthermore, recent advances in technology and the development of external standards are facilitating the integration of mobile-satellite solutions with terrestrial systems to address connectivity, which increases the range of potential users of the MSS systems.

#### Work Status

During its April-May session in Shanghai, WP4C advanced work under Agenda Item 1.14. The group developed key documents, including a working document, a draft CPM text, and a work plan (Annexes 10–12 to Chair's Report, document 4C/356). Discussions centered on technical parameters such as beam size and bandwidth, alongside differing views on protection criteria for GSO and NGSO MSS systems. A study, neither reviewed nor agreed, that aimed to demonstrate coexistence between MSS and MS-IMT in the 2010–2025 MHz band was incorporated into the working document.

## **GSOA** Position

Supports studies under Resolves 1, 2, and 3 of Resolution 254 (WRC-23) and new spectrum allocations to the MSS.

