



Title: Liaison on GSOA recommendation to facilitate definition of NTN Bands

Source: Global Satellite Operators Association (GSOA)

To: 3GPP TSG RAN

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1. Introduction

GSOA is the world's only CEO-driven satellite association and leads a coordinated and impactful response to the global challenges and opportunities the commercial satellite communications sector faces. Today, the Association which counts over 70 members, representing all satellite operators from all regions and other companies that engage in satellite-related activities. It offers a unified voice for the world's largest satellite operators and important regional operators towards all international, regional, and national organisations and regulators. [[GSOA – Global Satellite Operator's Association \(gsoasatellite.com\)](https://www.gsoasatellite.com)]

2. Importance of NTN Bands in 3GPP

- Satellite systems addressing mobile terminals have been incumbent and operating in several different frequency bands, across the Mobile Satellite Service (MSS) and Fixed Satellite Service (FSS), both below 7 GHz and above 10 GHz.
- There is a strong and growing desire among the satellite stakeholders to deploy 3GPP NTN based satellite networks in such bands, to integrate future satellite and terrestrial systems in 5G and on the road towards 6G.
- Release 17 NTN focus was on introduction of S-band (n256/b256) and core L-band (n255/b255).



- Additional satellite bands are currently being defined in both FR1 and “above 10 GHz”, but the progress has been slow, and painful, even for the agreement of the basic frequency range(s) applicable to each band.

3. GSOA recommendation to facilitate and support definition of NTN bands

In view of the importance of NTN deployment, GSOA recommends that TSG RAN more proactively facilitate the definition of bands allocated to satellite services and work to minimize hurdles to deployment of NR NTN and IoT NTN bands (where applicable).

4. Actions

3GPP TSG RAN is requested to take this recommendation under consideration.