

The Spectrum Foundations of Space-Enabled Mobility

MSS Spectrum Priorities for WRC-27

India Space Policy Forum

July 2026



MSS Agenda Items: contribution to NTN objectives

Agenda Item	Detail	NTN Impact
1.11	Space-to-space links in MSS bands	Long-term NTN ecosystem evolution
1.12	Possible allocations for low data-rate NGSO MSS	Efficient deployment
1.13	Direct-to-Device (D2D) in terrestrial IMT bands	Protect interoperability
1.14	Possible new S-band MSS allocations	Additional future capacity

Together they determine

- > available spectrum
- > regulatory certainty
- > investment confidence
- > international harmonization

MSS Agenda Items: studies

AI	Detail	Viasat Recommendation
1.11	Space-to-space links in MSS bands	Support allocations for MSS (space-to-space) while ensuring interference-free operation of coordinated MSS networks
1.12	Possible allocations for low data-rate NGSO MSS	Accommodate new narrowband NGSO requirements in existing MSS bands or other potential new bands considered under AI 1.14
1.13	Direct-to-Device (D2D) in terrestrial IMT bands	No change required to RR for D2D in current MSS bands. Address coexistence issues with L-band and S-band.
1.14	Possible new S-band MSS allocations	Support the studies

- > **For studies involving MSS in the frequency range 1-3 GHz, support the use of the MSS protection criteria from Recommendation M.1183, where the percentage time availability (X) is typically 99.9% as per relevant ITU-R Recommendations**

Why MSS outcomes matter for India

Economic Growth	Sovereignty	Open Ecosystem
• Manufacturing • Logistics • Digital inclusion • Agriculture • Space economy	• Multiple operators • Trusted infrastructure • National oversight • Resilient communications • International standards	• Shared infrastructure • 3GPP standards • MNO partnership • Competitive ecosystem • Interoperability

- **Internationally harmonized MSS spectrum enables open standards — benefiting manufacturers, operators, consumers and nations alike.**

The future of NTN will not be determined by satellites alone.

Spectrum harmonization, standards and regulatory certainty are the foundations.