



ITU-APT FOUNDATION OF INDIA (IAFI)¹

**FURTHER WORK ON A DRAFT NEW REPORT ON SHARING AND
COMPATIBILITY STUDIES BETWEEN IMT IN THE BAND 1492 – 1518 MHz AND
MSS SYSTEMS IN THE BAND ABOVE 1518 MHz IN THE ASIA PACIFIC REGION**

1. Introduction

At the 26th Meeting of AWG, the *working document towards a draft new report on sharing and compatibility studies between IMT in the band 1492 – 1518 MHz and MSS systems in the band above 1518 MHz in the Asia Pacific region* was further updated and carried forward in Document AWG-26/TMP-31 and that this work will be further continued in the SWG-SS at the 27th AWG meeting.

It is also noted that Working Party (WP) 5D and WP4C of ITU-R have also progressed the work related to IMT/MSS compatibility at 1 518 MHz and above. WP 4C has sent an update on its progress and its plans on the Report and Recommendation from its meeting in February 2021 to a subsequent meeting of WP5D where this was considered in the 37th meeting of WP5D. ITU-R Working Parties aims to finalize both the Report and the Recommendations on this issue at a future meeting of WP5D. It is also important to note that the Recommendation ITU-R M.1036-6, which already contains certain frequency arrangements for this band is also being reviewed and revised by ITU-R WP5D.

2. Discussion

Following the identification of IMT in the band 1 427-1 518 MHz, administrations are looking for guidance regarding the possible frequency arrangements and/or the size of the guard band between IMT and MSS while assigning this band for IMT.

L Band MSS operations in the band 1 525-1 559 MHz are being used some countries in Asia Pacific by the shipping industry, where several ships use L-band Satellite communications (Satcom) to comply with GMDSS requirements, and fishing vessels that use L-band Satcom to support off-shore operations. Further, L-band Satcom is also extensively used for aeronautical operations by airlines and government agencies, as well as by land MSS terminals.

Noting t that Resolution **223 (Rev.WRC-19)** calls for compatibility studies in order to provide technical measures to ensure coexistence between MSS in the frequency band 1 518-1 525 MHz and IMT in the frequency band 1 492-1 518 MHz; it is expected that the new ITU-R Report/ Recommendation would provide guidance including following for the administrations:

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- a) technical measures to ensure coexistence between MSS and IMT stations, including:
 - (i) PFD protection measures in the band above 1518 MHz,
 - (ii) Options regarding the OOB emission limits in the bands 1 518-1 525 MHz; and
 - (iii) Information regarding receiver blocking requirements for new MSS terminals.
- b) information regarding possible guard band to ensure coexistence between MSS and IMT.

3. Proposal

Considering the importance of the use of L band for IMT as well as MSS in Asia Pac, it is proposed that AWG-27 should take note of the above in the further updating of the “*working document towards a draft new report on sharing and compatibility studies between IMT in the band 1492 – 1518 MHz and MSS systems in the band above 1518 MHz in the Asia Pacific region*”. It is also proposed that AWG should provide necessary inputs to ITU-R through a Liaison Statement to WP5D and WP4C based on the material contained in the updated working document to support the progress of their work on this issue.
