



Thailand

PRELIMINARY VIEW ON WRC-19 AGENDA ITEMS 1.15

Agenda Item 1.15:

“to consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, in accordance with Resolution 767 (WRC-15);”

Resolution 767 (WRC-15) – Studies towards an identification for use by administrations for land-mobile and fixed services applications operating in the frequency range 275-450 GHz

Background

This agenda item seeks to identify spectrum for land mobile service (LMS) and fixed service (FS) applications in the 275-450 GHz frequency range while maintaining protection of the existing Earth exploration-satellite service (EESS) (passive) and radio astronomy service (RAS) applications identified in RR No. **5.565**. A PDN Report ITU-R SM.[275-450GHz SHARING] has been developed. This Report contains the results of compatibility studies between LMS, FS applications and both EESS (passive), RAS in the 275-450 GHz band based on the technical information available on LMS and FS characteristics in Reports ITU-R [M.2417-0](#) and [F.2416-0](#), for the purpose of identifying spectrum that can be used by LMS/FS applications without the need for regulatory restrictions.

Compatibility studies between the RAS and LMS/FS applications concluded that atmospheric attenuation independent of free-space losses at 275-450 GHz is not sufficient to provide compatibility between FS and RAS operations in the absence of other considerations. Separation distances and/or avoidance angles between RAS stations and FS stations should be considered depending on the deployment environment of FS stations.

Preliminary Views

Thailand supports the identification of frequency bands for fixed and mobile service applications in the range 275-450 GHz while maintaining the protection of the passive services identified in **No. 5.565**.
