



Thailand

PRELIMINARY VIEWS ON WRC-19 AGENDA ITEM 1.5

Agenda Item 1.5:

“to consider the use of the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service and take appropriate action, in accordance with Resolution 158”

1. Background

Fixed-satellite service (FSS) networks are being used at an increasing rate to provide services to earth stations mounted on mobile platforms. FSS networks are currently providing telecommunications services to aircraft, ships, trains and other vehicles in the 14.0-14.5 GHz (Earth to-space) and 10.7-12.7 GHz (space-to-Earth) bands. As the demand for these systems evolves, service providers will turn to new FSS bands to meet this growing need.

Working Party 4A is currently undertaking studies in response to Resolution 158 (WRC-15), especially the regulatory issues related to earth stations in motion (ESIM) and operation of ESIM communicating with geostationary space stations in the fixed-satellite service allocation at 17.7-19.7 GHz and 27.5-29.5 GHz

2. Preliminary Views

The global demand for broadband communications continues to be on the rise. Such demand includes requirements of connectivity for users on vessels, aircraft, train, and vehicles that operate at both fixed locations and while in motion, often in remote area.

Thailand is of the view that the regulatory issues and sharing condition/technical compatibility between ESIM and other incumbent applications such as the typical earth station and applications in fixed service in the frequency bands 17.7-19.7 GHz and 27.5-29.5 GHz should be considered to ensure the protection of existing systems. Therefore, Thailand supports the development of an ITU-R regulatory framework dealing with operation of land, maritime and aircraft applications of ESIM, taking into account that the issue of licensing ESIM operating beyond the territory of notifying administration is not covered by the ITU Radio Regulations (RR).