



## Thailand

### PRELIMINARY VIEW ON WRC-19 AGENDA ITEM 1.12

**Agenda Item 1.12:** “to consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations, in accordance with Resolution **237 (WRC-15)**”

#### Background

Information and communication technologies are integrated in a vehicle system to provide Intelligent Transport Systems (ITS) communication applications for the purpose of improving traffic management and assisting safe driving. Legacy ITS systems, including ETC (Electronic Toll Collection) have been globally deployed. Advanced ITS systems, including vehicle-to-everything (V2X) communications such as vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications, have been deployed in some regions. Advanced ITS systems may be used for safe driving support system and automated driving system. ITS may also become important in resolving road traffic problems such as congestion and accidents.

ITS applications greatly depend on functionality of radiocommunication and spectrum. Recognizing that harmonized spectrum and international standards would facilitate deployment of ITS radiocommunication, agenda item 1.12 was approved by WRC-15 to study the possibility of spectrum harmonization for ITS applications within the existing mobile service allocations on a global or regional basis. The mobile service bands used by ITS may also be utilized by other applications and services, and some of the frequency bands are also being considered under other agenda items. Resolution **237 (WRC-15)** invites ITU-R to carry out studies on technical and operational aspects of evolving ITS implementation using existing mobile-service allocations.

#### Preliminary View

Thailand supports studies currently undertaken by ITU-R Working Party 5A on technical and operational aspects of evolving ITS implementation using existing allocations for mobile service.

Thailand is of the view that spectrum used by ITS safety-related applications should be free from harmful interference because the next generation of ITS will be used for safe driving support system and automated driving system.

As the mobile service bands used by ITS may also be utilized by other applications and services, Thailand is of the view that further studies should also address technical conditions to facilitate coexistence between ITS and other applications/services.

In particular, the frequency band 5 855 – 5 925 MHz is being used for ITS application in several countries, while many APT Member countries also use Fixed Satellite Service (FSS) in this band. Thailand notes that ITU-R Working Party 4A submitted a Liaison Statement requesting ITU-R Working Party 5A to take account of the co-primary allocation of FSS in the band in the study under WRC-19 agenda item 1.12 [and ITU-R Working Party 5A is studying technical conditions to facilitate coexistence between ITS and other applications/services in the frequency band 5 855–5 925 MHz. Thailand encourages APT Members to submit contributions to ITU-R Working Party 5A addressing technical conditions to facilitate coexistence between ITS and other applications/services, particularly FSS, in the frequency band 5 855 – 5 925 MHz].

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