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Aurora A. Rubio
Head, ITU Area Office for South East Asia

Harmonized Cross-Border RF Interference Mitigation Approach for ASEAN

Objective

To develop a harmonized common approach/procedures/framework in ASEAN Member Countries that predicts possible interferences among different services and provide proper protection for existing networks, stations or links and for future services.

Why Harmonized Cross-Border RF Interference Mitigation Approach for ASEAN ?

RF cross border interference is a Global Issue BUT requires regionally harmonized approaches adopted to resolve the issue.

Existing Examples Globally:

- ***Harmonized Calculation Method (HCM)*** *Agreement covering 17 countries of Europe.*
- ***HCM 4A (HCM for Africa):*** *Based on HCM agreement but developed in accordance with regional (Sub-Saharan Africa) requirements*

"**HCM Agreement**" is the name used to designate the Agreement between the authorities of Austria, Belgium, the Czech Republic, Germany, France, Hungary, the Netherlands, Croatia, Italy, Liechtenstein, Lithuania, Luxembourg, Poland, Romania, the Slovak Republic, Slovenia and Switzerland, regarding the co-ordination of frequencies between 29.7 MHz and 39.5 GHz for the Fixed Service and the Land Mobile Service in accordance with Article 6 of the ITU Radio Regulations.

The HCM Agreement provides for detailed administrative procedures concerning frequency co-ordination and also includes technical provisions. A software has been developed to ensure harmonized use of the calculation methods laid down in the Agreement.

Cross Border RF Interference Mitigation

- **Some Facts of South East Asian Countries**
  - *Significant population concentration on the border areas of countries in e.g. Cambodia - Lao P.D.R – Thailand - Vietnam etc.*
  - *Interference issues exist and is primarily due to lack of comprehensive formal agreement on the management of said issues, including harmonized calculation methods at regional and/or sub-regional level.*
- **Some Examples of Sub-regional approaches in ASEAN to address the issue**
  - ***Indonesia-Malaysia-Singapore*** *under the trilateral forum between the three countries;*
  - ***Singapore-Malaysia-Brunei*** *using Frequency Assignment and Coordination, Singapore, Malaysia and Brunei Darussalam (FACSMAB) platform.*
  - ***Bilateral agreements*** *of Lao P.D.R with Vietnam and Thailand separately.*

Scope of Activities of Project

1. Assessment Phase

Review of existing bilateral and multilateral cross-border frequency coordination agreements / procedures / practices / frameworks in ASEAN countries.

2. Development of procedures:

Based on the deliverables of assessment phase, recommend a common administrative set of procedures and the relevant technical Annexes based on the HCM Agreement

3. Creation of a Technical Working Group (TWG) on cross-border frequency coordination

comprising of the nominated Spectrum Managers from ASEAN member countries.

4. Validation workshop and adoption of the recommendations of TWG

including development and adaptation of a common software tool considering existing Agreement/ procedures / guidelines / practices in other regions of the world.

5. Finalization of software/tools and regional training workshop(s)

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