A cross Border Frequency Coordination Agreement

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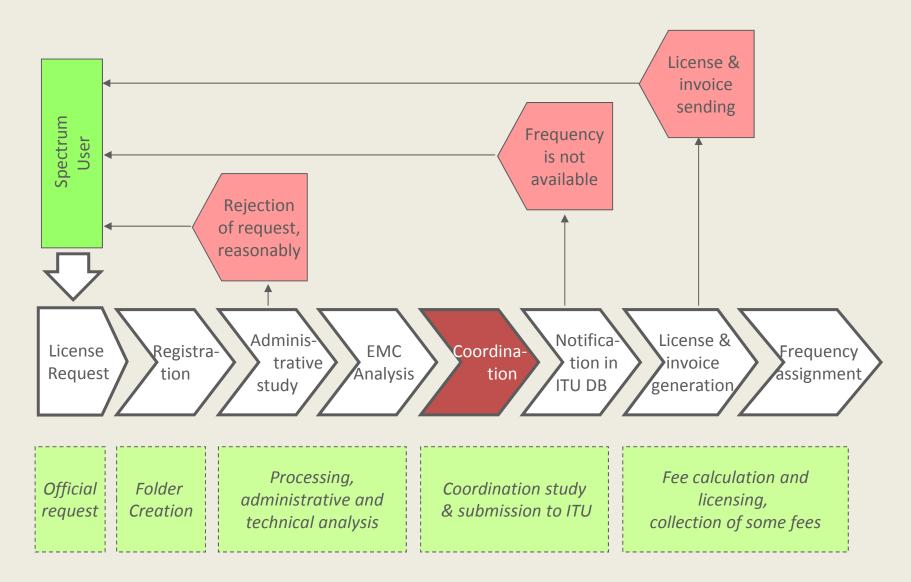
What to expect in these slides

Where does Coordination stand in National Licensing workflow

What principle to apply for Coordination

What to consider in a regional/multi-lateral cross border co-ordination agreement

Example - National Spectrum Licensing workflow



Example - National Spectrum Licensing workflow

- **×** Request for Licensing received by office
 - + Ensure all the technical parameters are there in application (establish a minimum required info. criteria)
 - + Detailed backend technical evaluation

Need for Coordination Established

General overview of coordination

Co-ordination request and all technical characteristics of radio network/equipment sent to all administrations affected to enable accurate assessment of interference

Administrations affected assess possibility of interference to own stations;

No possibility of interference: obliged to agree to request

If assessments produce different results, administrations can agree to operation on a trial basis; field strength calculations replaced with agreed field strength measurements

Definitions

- Terms used in the agreement :
 Preferably same as in the RR
- Full Details of Administration involved in the Agreement Full Name etc.
- Details of Frequencies with repect to each radio services covered by the agreement
- Categories of frequencies for coordination
 - Preferential frequencies
 - Shared frequencies
 - Frequencies for planned radio communication networks
 - Frequencies used on the basis of geographical network plans
 - Frequencies used on the basis of arrangements between operators
 - Others

Definitions

Frequency Register

The Frequency Register cosnists of lists set out by every Administration indicating its coordinated frequencies as per the categorization of frequencies

- Other articles defining:
 - Administration affected
 - Harmful interference
 - HCM Programs
 - Data Exchange

Annexures could be used for Details

General

- Set out responsibility of each Administration invovled in following clauses of the Agreements andits procedure
- May also clearly define that this agreement/framework in no way affects the rights and obligations of the Administrations arising from other international, regional, multilateral, bilateral and intergovernmental agreements

A coordination agreement on regional level should be **flexible** enough to allow the countries involved in bilateral coordination to change the mentioned coordination arrangements e.g. time limits with mutual consent

Technical Provisions

 Articles related to the technical co-ordination of a radio station and the evaluation with reference to relevant applicable Annexes for detials

Procedures

- Detailed Administrative and technical with clearly defined time limits for each procedure of RF coordination.
- Preferred way is to provide the procedural details in accordance to each category of frequencies

- Others Provisions:
- Report of harmful interference
- Revision of this Agreement
- Accession to this Agreement
- Withdrawal from this Agreement
- Status of co-ordinations prior to this Agreement
- Languages of the Agreement
- Entry into force of Agreement

Annexes

- Can be categorized with respect to the RF services involved in the agreement
- Contain all technical details
- Example of Annexures:
 - Maximum permissible interference field strengths and maximum cross-border ranges of harmful interference for frequencies requiring co-ordination
 - Data exchange (methods and details of the contents of the lists)
 - Measurement procedures
 - Propagation curves to be used for coordination w.r.t each service
 - Determination of the interference field strength
 - Coding instructions for antenna diagrams
 - Method for combining the horizontal and vertical antenna
 - Triggers for co-ordination in the Fixed Service

- Definitions
- 2. General
- 3. Technical provisions
- 4. Procedures
- 5. Report of harmful interference
- 6. Revision of this Agreement
- Accession to this Agreement
- 8. Withdrawal from this Agreement
- 9. Status of co-ordinations prior to this Agreement
- 10. Languages of the Agreement
- 11. Entry into force of Agreement
- 12. Annexes for technical and administrative details

Rec. ITU-R SM.1049-1

(A METHOD OF SPECTRUM MANAGEMENT TO BE USED FOR AIDING FREQUENCY ASSIGNMENT FOR TERRESTRIAL SERVICES IN BORDER AREAS)

Thank you for your attention



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