

WRC-27 Agenda 1.5

Regulatory measures, to limit the unauthorized operations of non-GSO earth stations in FSS and MSS

Background of Agenda Item 1.5:

- *Growing use of NGSO systems to support Fixed and Mobile Broadband. Administrations want to make sure that unauthorised earth stations in their territories do not communicate with NGSO systems*
- *Member states have the sovereign right to license the use of N-GSO systems in their territories*

Studies required:

- *Adequacy of current regulatory measures.(Article 18, Resolution 22, Resolution 25)*
- *Additional Regulatory measures to limit unauthorized operation in Earth to space direction*
- *Implementability of the regulatory measures*
- *Geofencing: How to use the geolocation capabilities for earth stations to restrict operations to authorized areas.*
- *Remote De-activation of Unauthorized Non-GSO Earth Stations: The capability of Network Control and Monitoring Centers (NCMCs) to remotely deactivate unauthorized earth stations*

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Possible Solution:

- *Non-GSO earth stations remain under the control and monitoring of the NCMC*
 - *Non-GSO earth stations can be located and identified using Geo Location capabilities*
 - *Non-GSO earth stations shall cease transmission when in the territory of administrations not authorizing their operation.*
 - *Remote deactivation of unauthorized terminal*
 - *Studies related to exclusion from the service area*
 - *Explicit agreement for inclusion of territory of a country in the service area*
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Current provisions & Procedures related to service area:

- *Exists only for Planned bands under ITU RR AP30B, AP30, AP30A.*
 - *Service areas are defined in terms of test points.*
 - *Administration submits technical information of N-GSO satellite network*
 - *BR examines and publishes PART-A a. Satellite networks to be coordinated b. Territories which are included*
 - *Countries object to inclusion of service area under relevant provisions.*
 - *ITU BR excludes the objected countries*
 - *During PART-B submission, status of agreements will be reviewed.*
 - *Service area objection can be sent at any point of time even if the network is recorded*
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Future work:

- *Adoption of a draft new resolution*
- *Regulatory procedure similar to Planned band*
- *Implicit/Explicit agreement.*
- *In case of service area objection, adverse impact should not be on the other service areas.*
- *To develop regulatory provision obligating the notified administration, in collaboration with satellite system operator to exclude territory*
- *Actions of the Bureau in the event of non compliance*
- *Action by the notifying administration .*

- *Strengthening the required capabilities of the NCMC*
- *Minimum requirement for earth station for interaction with NCMC*

Thank you