

BR workshop on non-geostationary constellation issues

Contribution by O3b

Our contribution wishes to address the possibility of changing the parameters of a request for coordination information during the lifetime of the filing.

We surmise that there at least two different periods the Appendix 4 parameters of a filing may wish to be amended:

1. At Notification/BIU
2. After Notification/BIU

There is clear rationale for these changes such as:

- technology developments e.g. antenna discrimination performance may improve
- operational performance due to coordination e.g. orbital parameter adjustments to minimise the frequency of in-line events

The question is what should be the allowable consequences of any changes? There are two predominate categories: the effects on other NGSO systems and ensuring protection of the GSO.

Protection of GSO

- Art 22 limits need to be respected
- Changes in some parameters could be allowed e.g. Alpha angle (avoidance angle) reflecting improvements of the NGSO antenna performance
- Contributions have shown that S.1503 cannot represent some NGSO operations and in some cases it over-estimates the level of interference. Any deviation from the WRC minutes and Resolution 85 would require a rule of procedure in place to allow resubmission before the ITU validation software become mandatory in its application

NGSO and 9.11A coordination

Amendments to parameters could be considered: the consequences are harder to determine. We look at the analogies with GSO coordination

GSO analogies

- Not cause more interference nor claim further protection
- If Triggers for coordination were defined the BR could assess if the trigger had been activated. After trigger, coordination would be conducted network to network (akin to Art. 9)
 - Trigger may be protection masks or avoidance angles
- Protection should be limited to what is BIU