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| **Radiocommunication Study Groups** |  |
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| Annex 13 to Working Party 4A Chairman’s Report |
| WORKING DOCUMENT ON METHODS PROPOSED FOR WRC-12 AGENDA ITEM 1.13 THAT MAY BE COMMON TO ISSUES ASSOCIATEDWITH RESOLUTION 80 (REV.WRC-07) |

# 1 Introduction

Documents that proposed methods for the draft CPM text for addressing various issues associated with WRC-12 Agenda item 1.13 were submitted to the March/April 2010 meeting of WP 4A. As part of the discussion of the issues under that agenda item it was suggested that some of the issues raised may be viewed as common to issues raised under Resolution **80 (Rev.WRC-07)**. As such, it was suggested that certain methods proposed for addressing issues under WRC-12 Agenda item 1.13 also be discussed for other frequency bands under Resolution **80 (Rev.WRC-07)**. These methods, as they may apply to other frequency bands, have not yet been discussed within WP 4A and this working document contains a description of two of these methods for future consideration by WP 4A.

# 2 Possible methods to satisfy, to a certain extent, the objectives of Resolution 80 (Rev.WRC-07)

## 2.1 Method 1

The special procedures described below can only be applied by an administration which does not have any network neither in the MIFR nor notified under Article **11** nor coordinated or in the process of coordination under Article **9** of the Radio Regulations in this frequency band.

The general principle under this method on how to process the network of those administrations which have not submitted any national or intergovernmental/sub-regional requirement in this frequency band at the time that submitting their first national or intergovernmental/sub-regional requirements is as follows:

The networks submitted by these administrations in the order of their receipt will be given top priority, in analogy with the principles contained in RR Appendix 30B in case of new Member of the Union (in that Appendix all Member States have already obtained an allotment/assignment in the Plan).

The orbital location for networks applying these special procedures could either be specified by the notifying administration, preferably co-located with the orbital position(s) of the national assignments in Appendix 30, 30A and/or 30B, at the time of the submission or should be selected within a specified period (not more than 6 months) by the Bureau pursuant to the request by the administration within the arc specified at the time of submission of the responsible administration.

The order of priority will be implemented so as these submissions will be moved to the beginning of the Bureau’s file waiting list behind all administrations which have already submitted RR complete information as per Appendix 4 data but with one single satellite network per administration which did not have any assignment/satellite network in this frequency band that were either recorded in the MIFR or notified and not yet brought into use, or coordinated or under coordination. The remaining networks submitted by other administrations awaiting to be processed under section II of RR Article 9 by the Bureau will be moved to the end of the waiting list of the administrations which have submitted only one network respecting their corresponding date of receipt.

In case of intergovernmental/sub-regional[[1]](#footnote-1) systems, each administration member of those networks which have already been associated with that intergovernmental/sub-regional system and has had coverage by using assignments related to that intergovernmental/sub-regional systems would be considered as having the first/initial coverage per its territory, if the assignments relating to that first intergovernmental/sub-regional system is either recorded in the MIFR, or notified and not yet brought into use or coordinated or under coordination. This means that each one of the countries member of that intergovernmental/sub‑regional system would be considered to have already been granted one single network within that/those intergovernmental/sub-regional system(s).

The notifying administration applying these special procedures (Administration “B”) then needs to effect necessary coordination with other administrations that are identified as affected (Administrations “A1”, “A2” etc). In this connection, should any of these latter administrations already have satellite networks in the subject frequency band in the Bureau's coordination files and covering the same service area of Administration "B", they shall apply the following course of action in respect of Administration "B" which has had no submission before and having the first submission in the same frequency band and covering the same service area:

a) if the agreement of administrations "A1" ,"A2” and etc. is required following the application of relevant procedure of RR Article 9 by Administration "B", in order to protect the satellite networks of administrations "A1", "A2" and etc. by the Administration “B " from interference caused by the assignment proposed by the latter administration, the concerned administrations shall make every possible effort to resolve the difficulties by means of mutually acceptable adjustments to their networks;

b) in case of continuing disagreement, and if the administrations of "A1", "A2" and etc. have not communicated to the Bureau the valid information specified in Annex 2 to Resolution **49 (Rev.WRC-2000)[[2]](#footnote-2)\***, these administrations shall be deemed to have given their agreement to Administration "B" for recording in the Master Register.

 *Editor’s Note: The concept of a) and b) above are stemming from RR Appendix 30 § 4.1.24.*

Once the assignments of Administration "B " are recorded in the MIFR, that Administration shall bring the assignments into use within the regulatory time limit specified in RR **11.44** and RR **11.48** together with submission of valid information specified in Annex 2 to Resolution **49 (Rev.WRC‑2000)** andconfirmation of the date of bringing into use of the subject assignment**.** Otherwise assignments in question shall be cancelled from the MIFR together with the associated coordination file(s) from the Bureau's database.

Should Administration B submit at later stage a new submission intending to use the above mentioned procedures, such submission would not benefit from the priority arrangements enshrined in this method.

This method is supplementary to the principle of “first come first served” as this principle is still applied to submissions not subject to this special procedure.

In order to fully respect the applicable procedure of Article **9** of the Radio Regulations in terms of respecting the date of receipt of submissions, irrespective of their class of station (FSS, MSS, etc.), there is a need that the Bureau establish a separate processing queue (chain) for Regions 1 and 3 BSS submissions in the 21.4-22 GHz band and then apply the principles of this method for this. This principle, together with the details of its application, needs to be included in a Conference Resolution, e.g. Res. **525 (Rev.WRC-12)**.

## 2.2 Method 2

It was recognized that submitted Resolution **49** information for networks that are not operational or have ceased operation, e.g. because the satellite has been moved to another orbit location, would place severe undue constraints on other administrations trying to coordinate networks. A method to improve this situation for BSS in the 21.4-22.0 GHz band was considered.

It was furthermore recognized that any consideration of application of such a method beyond BSS for Regions 1 and 3 in the 21.4-22 GHz band would need to be addressed by the relevant groups under Resolution **86 (Rev.WRC-07)** (WRC-12 Agenda item 7).

This method proposes measures to improve the due diligence requirements currently contained in Resolution **49** to obtain better coherence/consistency between networks recorded in the Master International Frequency Register (MIFR) and real satellites in operation. The main spirit of this, applicable only to Regions 1 and 3 BSS in the 21.4-22 GHz band, is to require that Administrations inform the Bureau immediately after each key event for a specific satellite network filing. The events referred to would include each time a different satellite operates under the specific satellite network filing, or when regular operation under a satellite network filing is suspended.

The aim of this method is to enable identification of each satellite and tracing the orbit location of a satellite at any given time. This will permit easy verification of the information submitted by any administration and would avoid one satellite being registered as being operational in multiple orbit locations simultaneously.

This method may be implemented either having a separate Resolution or by having a new annex to the existing Resolution **49**. In both cases, it will be necessary to review the relevant provisions of Articles **9** to **14** and other relevant Articles of the Radio Regulations in order to make appropriate cross references with respect to the new Resolution or the new annex to the current Resolution **49** for the band 21.4-22 GHz.

1. Sub-regional system in this context is understood to mean networks submitted by an administration on behalf of a group of named administrations. [↑](#footnote-ref-1)
2. \* *Note by the Secretariat:* This Resolution was revised by WRC-07. [↑](#footnote-ref-2)