

ITUEvents

2nd ITU Inter-regional Workshop on WRC-19 Preparation

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**2nd ITU INTER-REGIONAL WORKSHOP
ON WRC-19 PREPARATION
(Geneva, 20-22 November 2018)**

Satellite services

Part I

WRC-19 agenda item 9.1 (issue 9.1.2)

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Organized by:





CHAPTER 3 OVERVIEW

PART I

AI 9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.1 on the activities of the Radiocommunication Sector since WRC-15

issue 9.1.2: Compatibility of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3

Resolution **761 (WRC-15)**, *resolves to invite ITU-R*

1 to conduct, in time for WRC-19, the appropriate regulatory and technical studies, with a view to ensuring the compatibility of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3, taking into account IMT and BSS (sound) operational requirements;

2 to prepare, inter alia, the regulatory action that could be taken, based on the studies carried out under resolves to invite ITU-R 1 above, in order to facilitate the long-term stability of IMT and BSS (sound) in the frequency band 1 452-1 492 MHz,



AI 9.1 ISSUE 9.1.2 STUDIES

Background

The frequency band **1 452-1 492** MHz is allocated to the FS, MS, BS and BSS.

Based on the outcome of WRC 15, the frequency band **1 452-1 492** MHz is identified for use by Regions 1 and 3 administrations wishing to implement IMT in accordance with Resolution **223 (Rev.WRC-15)** and Resolution **761 (WRC-15)** (see RR Nos. **5.346** and **5.346A**).

Pursuant to Resolution **528 (Rev.WRC 15)**, in the interim period, BSS systems may only be introduced within the upper 25 MHz of this frequency band in accordance with the procedures contained in Sections A to C of Resolution **33 (Rev.WRC 15)**, or in RR Articles **9** to **14**, as appropriate (see *resolves 1* and *2* of Resolution **33 (Rev.WRC-15)**).

The complementary terrestrial service may be introduced during this interim period subject to coordination with administrations whose services may be affected.



Possible actions with respect to AI 9.1, issue 9.1.2

Possible action	Protection of IMT stations	Protection of BSS (sound) receivers
1	Maintain status quo (i.e. no changes to the RR).	
2	Maintain status quo (i.e. no changes to the RR) for those countries for which the frequency band is not identified for IMT.	
3	<p>Stipulate pfd limit(s) for BSS (sound) space stations. Three alternatives are available in this action.</p> <p><u>Alternative 1</u>: The pfd limit is stipulated in RR Table 21-4 under RR No. 21.16 taking into account protection of IMT mobile stations.</p> <p><u>Alternative 2</u>: The pfd limit is stipulated in RR Table 21-4 under RR No. 21.16 taking into account protection of IMT base and mobile stations.</p> <p><u>Alternative 3</u>: The pfd limit is stipulated in a new footnote taking into account the operational requirement of BSS (sound) system.</p>	Maintain status quo (i.e. no changes to the Radio Regulations).
4	Maintain status quo (i.e. no changes to the RR).	Stipulate pfd limit for IMT stations by modification of RR Nos. 5.346 and 5.346A.
5	<p>Stipulate a new coordination threshold for RR No. 9.11 based on pfd value.</p> <p>The pfd value is stipulated in a new footnote taking into account the e.i.r.p. value of 70.8 dBW for a space station of BSS (sound).</p>	Maintain status quo (i.e. no changes to the Radio Regulations).

Possible actions with respect to AI 9.1, issue 9.1.2

Possible action	Protection of IMT stations	Protection of BSS (sound) receivers
6	Maintain status quo (i.e. no changes to the Radio Regulations).	Stipulate a new coordination threshold for RR No. 9.19 based on pfd value to reach coexistence for protection of BSS (sound) receivers.
7	<p>Stipulate pfd limit(s) for BSS (sound) space stations. Three alternatives are available in this action.</p> <p><u>Alternative 1</u>: The pfd limit is stipulated in RR Table 21-4 under RR No. 21.16 taking into account protection of IMT mobile stations.</p> <p><u>Alternative 2</u>: The pfd limit is stipulated in RR Table 21-4 under RR No. 21.16 taking into account protection of IMT base and mobile stations.</p> <p><u>Alternative 3</u>: The pfd limit is stipulated in a new footnote taking into account the operational requirement of BSS (sound) system.</p>	Stipulate pfd limit for IMT stations by modification of RR Nos. 5.346 and 5.346A.
8	<p>Stipulate a new coordination threshold for RR No. 9.11 based on pfd value.</p> <p>The pfd value is stipulated in a new footnote taking into account the e.i.r.p. value of 70.8 dBW for a space station of BSS (sound).</p>	Stipulate a new coordination threshold for RR No. 9.19 based on pfd value to reach coexistence for protection of BSS (sound) receivers.



THANK YOU!

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