

European Common Proposals regarding WRC-07 Agenda Item 1.9

Agenda Item 1.9 – Review of the provisions in the band 2500-2690 MHz

Introduction

WRC-07 agenda item 1.9 invites the Conference “*to review the technical, operational and regulatory provisions applicable to the use of the band 2 500-2 690 MHz by space services in order to facilitate sharing with current and future terrestrial services without placing undue constraint on the services to which the band is allocated*”.

The band 2500-2690 MHz was identified by WRC-00 for IMT-2000. In CEPT, the band 2500 – 2690 MHz is designated for terrestrial IMT-2000/UMTS systems through ECC decisions DEC(02)06 and DEC(05)05. The band is currently used by a variety of applications such as ENG/OB (programme-making), Wireless Local Loop and Point to Point Systems and it will be made available for terrestrial IMT-2000/UMTS by 1st January 2008.

WRC-03 decisions, under former Agenda Item 1.34, reviewed the technical and regulatory provisions applicable to non-GSO and GSO BSS (sound) systems in the band 2605-2655 MHz in a limited number of countries listed in RR footnotes No. 5.418 and 5.417A in order to allow the introduction of BSS (sound) systems in these countries whilst safeguarding the current and planned use of this band by terrestrial services, and in particular IMT-2000 systems, in most countries over the world. The protection of terrestrial systems from BSS (sound) interference was achieved by adopting new regulatory and technical provisions included in the revisions of Resolution 539, footnote No. 5.418 and Appendix 5 and new footnote No. 5.417A. It is worthwhile saluting and recognizing the mutual understanding efforts that helped coming to this decision. WRC-07 Agenda item 1.9 conclusions should therefore not modify the solution that was elaborated on WRC-03 Agenda item 1.34.

The technical and regulatory studies that addressed the sharing between BSS(sound) systems and terrestrial systems in the band 2605-2655 MHz under WRC-03 Agenda Item 1.34, highlighted the fact that the technical and regulatory provisions currently applicable to space services allocated in the band 2500 – 2690 MHz, do not provide efficient safeguard to the current and future terrestrial systems in the band 2500-2690 MHz. WRC-07 agenda item 1.9 was proposed in this context. The scope of agenda item 1.9 is limited to the review of the technical, operational and regulatory provisions applicable to transmit space stations in the band 2500 – 2690 MHz in order to protect terrestrial stations in the fixed and mobile services. The review of technical, operational and regulatory provisions applicable to terrestrial services in order to protect satellite systems in the band 2500-2690 MHz are out of the scope of this agenda item.

Studies under agenda item 1.9 confirmed that the current regulatory situation applicable to space services allocated in the band 2500 – 2690 MHz do not provide the required protection to the current and future terrestrial systems in the band 2500-2690 MHz. In particular, the current

power flux density limits applicable to space services would lead to interference into IMT-2000 systems considerably above the appropriate sharing criteria. It is therefore necessary to tighten these values to safeguard terrestrial systems including IMT-2000 systems, further development of IMT-2000 and IMT-Advanced in the band 2500-2690 MHz.

The hard limit regulatory regime based on the specification of a power flux density mask in Article 21 of the Radio Regulations, would be the regulatory regime that ensures the long term safeguard of terrestrial systems in the band 2500-2690 MHz from satellite interference, while providing long-term visibility for space systems to be developed within a clear predefined framework.

Based on the conclusions of the studies and discussions held within CEPT, Europe proposes:

1. To define power flux density (pfd) limits in Article 21 applicable to all space services, except BSS (sound), having an allocation in the frequency band 2500-2690 MHz.
2. To set these pfd limits to the following values, in dBW/m²/MHz:

-133	for	$0 \leq \theta \leq 5^\circ$
$-133 + 8/20 * (\theta - 5)$	for	$5 \leq \theta \leq 25^\circ$
-125	for	$25 \leq \theta \leq 90^\circ$

with θ the angle of arrival above the horizontal plane.

3. To not review conclusions of WRC-03 for what concerns BSS(sound) in the band 2605-2655 MHz.
4. To consider the date of application of the new provisions as an important issue and to consider that a suitable solution may be for the proposed new limits to apply to any satellite systems or networks operating in the 2500-2690 MHz band except those for which complete notification information has been received by the Radiocommunication Bureau before 17 November 2007, and whose frequency assignments in the 2500-2690 MHz band were brought into use by 31 December 2008 (the existing limits shall continue to apply to these latter systems).

Moreover, No. **9.19** of the Radio Regulations provides that coordination shall be effected by any transmitting station of a terrestrial service in a frequency band shared on an equal primary basis with the broadcasting-satellite service, with respect to typical earth stations included in the service area of a space station in the broadcasting-satellite service.

According to Table **5-1** of Appendix **5**, one of frequency bands, to which No. **9.19** applies, is the band 2535-2655 MHz. According to the same table, No. **9.19** does not apply to the bands 2520-2535 MHz and 2655-2670 MHz although they are both allocated to the broadcasting-satellite service.

The intention of CEPT is to remove any necessity for coordination of the terrestrial services, including IMT-2000 and systems beyond with the typical earth stations of the broadcasting-satellite service in frequency band 2520-2670 MHz.

Therefore, given that the provisions of No. **9.19** may place undue constraints on the terrestrial services in the band 2520-2670 MHz band, where major developments in the terrestrial services are foreseen, it is proposed to deactivate its application in this band.

Taking into account the above proposals Radio Regulations would be amended as follows:

Proposals

MOD EUR/1.9/1

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations

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Allocation to services		
Region 1	Region 2	Region 3
⋮		
2 500-2 520 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A MOD 5.403 5.405 5.407 5.412 MOD 5.414	2 500-2 520 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) MOD 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A MOD 5.403 5.404 5.407 MOD 5.414 5.415A	
2 520-2 655 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 MOD 5.416 5.339 MOD 5.403 5.405 5.412 5.417C 5.417D 5.418B 5.418C	2 520-2 655 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) MOD 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 MOD 5.416 5.339 MOD 5.403 5.417C 5.417D 5.418B 5.418C	2 520-2 535 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) MOD 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 MOD 5.416 MOD 5.403 5.415A 2 535-2 655 FIXED 5.409 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 MOD 5.416 5.339 5.417A 5.417B 5.417C 5.417D 5.418 5.418A 5.418B 5.418C

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5.403 Subject to agreement obtained under No. **9.21**, the band 2520-2535 MHz may also be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-satellite, service for operation limited to within national boundaries. The provisions of No. **9.11A** apply.

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5.414 The allocation of the frequency band 2500-2520 MHz to the mobile-satellite service (space-to-Earth) is subject to coordination under No. **9.11A**.

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5.415 The use of the bands 2500-2690 MHz in Region 2 and 2500-2535 MHz and 2655-2690 MHz in Region 3 by the fixed-satellite service is limited to national and regional systems, subject to agreement obtained under No. **9.21**, giving particular attention to the broadcasting-satellite service in Region 1.

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5.416 The use of the band 2 520-2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. **9.21**. ~~The provisions of No. **9.19** shall not apply to this band.~~ (WRC-07)

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5.419 When introducing systems of the mobile-satellite service in ~~the~~ band ~~2 670-2 690 MHz~~, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobile-satellite systems in the band shall be in accordance with No. **9.11A**.

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5.420 The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile-satellite, service for operation limited to within national boundaries, subject to agreement obtained under No. **9.21**. The coordination under No. **9.11A** applies.

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Rationale:

- Footnotes Nos. **5.403**, **5.414**, **5.419** and **5.420** of Article **5** are updated to suppress the transitional effects that will be out of date at WRC-07.
- Footnote No. **5.415** of Article **5** is updated as the limits in Table **21-4** apply, irrespective of whether they are mentioned in a footnote to Article **5**. Therefore, their mention in this footnote is considered redundant and unnecessary.

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ARTICLE 21

Terrestrial and space services sharing frequency bands above 1 GHz

Section V – Limits of power flux-density from space stations

TABLE 21-4 (WRC-07)

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Frequency band	Service*	Limit in dB(W/m ²) for angles of arrival (δ) above the horizontal plane			Reference bandwidth
		0°-5°	5°-25°	25°-90°	
2 500-2 690 MHz	Fixed-satellite	-133 ²¹	-133+8/20(δ-5) ²¹	-125 ²¹	↓ MHz
2 520-2 670 MHz	Broadcasting-satellite				
2 500-2 516.5 MHz (No. 5.404)	Radiodetermination-satellite				
<u>2 500-2 520 MHz</u>	<u>Mobile-satellite</u>				
<u>2 520-2 535 MHz</u> (No. 5.403)	<u>Mobile-satellite (except aeronautical mobile-satellite)</u>				

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²¹ **21.16.19** In the 2500-2690 MHz band, these limits do not apply to emissions of any space station of a system in the fixed-satellite service, broadcasting-satellite service, radiodetermination-satellite service and mobile satellite-service for which complete notification information has been received by the Radiocommunication Bureau before 17 November 2007, and whose frequency assignments in the 2500-2690 MHz band were brought into use by 31 December 2008. In that case, the following limits shall apply:

- 152 dB(W/m²) for δ < 5°
- 152 + 0.75(δ - 5) dB(W/m²) for 5° < δ < 25°
- 137 dB(W/m²) for δ > 25°

in any 4 kHz band, where δ is the angle of arrival above the horizontal plane. (WRC-2007)

Rationale:

Europe proposes to define power flux density (pfd) limits in Article 21 applicable to all space services, except BSS (sound) subject to No. 5.417A and No. 5.418, having an allocation in the frequency band 2500-2690 MHz, therefore Table 21-4 of Article 21 is updated to include bands and services not already listed. These new limits are proposed to be applicable from the 17 November 2007. Transitory measures are added.

APPENDIX 5 (Rev.WRC-07)

Identification of administrations with which coordination is to be effected or agreement sought under the provisions of Article 9

TABLE 5-1 (continued) (Rev.WRC-07)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.19 Terrestrial, GSO, non-GSO/ GSO, non-GSO	Any transmitting station of a terrestrial service or a transmitting earth station in the FSS (Earth-to-space) in a frequency band shared on an equal primary basis with the BSS, with respect to typical earth stations included in the service area of a space station in the BSS	Bands listed in No. 9.11, <u>except the band 2 535-2 655 MHz, and the band 11.7-12.7 GHz</u>	i) Necessary bandwidths overlap; and ii) the power-flux-density (pfd) of the interfering station at the edge of the BSS service area exceeds the permissible level	Check by using the assigned frequencies and bandwidths	See also Article 6 of Appendix 30

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TABLE 5-2 (continued) (WRC-07)

Frequency band (MHz)	Terrestrial service to be protected	Coordination threshold values				
		GSO space stations		Non-GSO space stations		
		pfd (per space station) calculation factors (NOTE 2)		pfd (per space station) calculation factors (NOTE 2)		% FDP (in 1 MHz) (NOTE 1)
		<i>P</i>	<i>r</i> dB/degrees	<i>P</i>	<i>r</i> dB/degrees	

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Rationale:

Europe proposes to define power flux density (pfd) limits in Article 21 applicable to all space services, except BSS (sound) subject to No. 5.417A and No. 5.418, having an allocation in the frequency band 2500-2690 MHz. Therefore Table 5-2 of Appendix 5 is updated with suppression of the coordination thresholds in the band 2500-2535 MHz, as, in accordance with No 9.6.3, No 9.14 will no longer apply in this band.

MOD EUR/1.9/4

ARTICLE 59

Entry into force and provisional application of the Radio Regulations (WRC-2007)

59.1 These Regulations, which complement the provisions of the Constitution and Convention of the International Telecommunication Union, and as revised and contained in the Final Acts of WRC-95, WRC-97, WRC-2000, and WRC-03 and WRC-07, shall be applied, pursuant to Article 54 of the Constitution, on the following basis. (WRC-07) [...]

59.9 The other provisions of these Regulations, as revised by WRC-07, shall enter into force on [1 January 2009], with the following exceptions: (WRC-07)

59.10 – the revised provisions for which other effective dates of application are stipulated in Resolutions:

| ..., New Resolution XXX (WRC-07) ... (WRC-07)

Rationale:

It is proposed that the new provisions to be decided under agenda item 1.9 enter into force from 17 November 2007. A reference to a WRC Resolution is therefore required in Article 59.

NEW RESOLUTION XXX (WRC-07)

**Provisional application of certain provisions of the
Radio Regulations as revised by WRC-07**

The World Radiocommunication Conference (Geneva, 2007),

considering

- a) that this Conference has adopted a partial revision to the Radio Regulations (RR) in accordance with its terms of reference which will enter into force on [1 January 2009];
- b) that some of the provisions, as amended by this Conference, need to apply provisionally as of an earlier date;
- c) that as a general rule, new and revised Resolutions and Recommendations enter into force at the time of signing of the Final Acts of a conference;
- d) that as a general rule, Resolutions and Recommendations which a WRC has decided to suppress are abrogated at the time of the signing of the Final Acts of the conference,

resolves

1 that, as of 17 November 2007, the following provisions of the RR, as revised or established by this Conference, shall provisionally apply: Nos. **5.403, 5.414, 5.415, 5.416, 5.419, 5.420, 21.16.19**, Table **21-4**, Table **5-2** of Appendix **5**;

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Rationale:

It is proposed that the new provisions to be decided under agenda item 1.9 enter into force from 17 November 2007.

SUMMARY OF CEPT POSITIONS

INTRODUCTION

This document summarizes the preliminary CEPT positions on WRC-07 agenda items. The text has been prepared for use outside CEPT. More detailed information can be found in the "CEPT briefs" which are available on the ERO website (www.ero.dk), as part of the CPG meeting reports with no access restriction (name : CPG / password : CPG).

The Annex provides the list of CEPT coordinators for each of WRC-07 agenda items.

AGENDA ITEM 1.9

1. The scope of agenda item 1.9 is limited to the review of the technical, operational and regulatory provisions applicable to transmit space stations in the band 2500 – 2690 MHz in order to protect terrestrial stations in the fixed and mobile services. The review of technical, operational and regulatory provisions applicable to terrestrial services in order to protect satellite systems in the band 2500-2690 MHz are out of the scope of this agenda item.
2. ~~Future deployment of terrestrial IMT-2000, further development of IMT-2000 and systems beyond IMT-2000 in the band 2500 - 2690 MHz must be fully safeguarded.~~
3. The protection of terrestrial systems currently deployed in Europe in the band 2500-2690 MHz band should be ensured..
4. The regulatory provisions adopted by WRC-03 under agenda item 1.34 successfully addressed the sharing between GSO and non GSO Broadcasting Satellite Service (sound), and terrestrial services, including IMT-2000 systems in the band 2605-2655 MHz and should remain unchanged.
5. The current article 21 power flux density limits applicable to space services would lead to interference into IMT-2000 systems considerably above the appropriate sharing criteria. It is therefore necessary to tighten these values to safeguard terrestrial systems including IMT-2000 systems, further development of IMT-2000 and IMT-Advanced in the band 2500-2690 MHz.
6. Except Broadcasting Satellite Service (sound), all space services having allocations in the frequency band 2500-2690 MHz shall be subject to Article 21 limits
7. Europe proposes to set these pfd limits to the following values, in dBW/m²/MHz:

-133	for	$0 \leq \theta \leq 5^\circ$
$-133 + 8/20 * (\theta - 5)$	for	$5 \leq \theta \leq 25^\circ$
-125	for	$25 \leq \theta \leq 90^\circ$

with θ the angle of arrival above the horizontal plane.
8. To consider the date of application of the new provisions as an important issue and to consider that a suitable solution may be for the proposed new limits to apply to any satellite systems or networks operating in the 2500-2690 MHz band except those for

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which complete notification information has been received by the Radiocommunication Bureau before 17 November 2007, and whose frequency assignments in the 2500-2690 MHz band were brought into use by 31 December 2008 (the existing limits shall continue to apply to these latter systems).

9 To deactivate the No. 9.19 of the Radio Regulations : the intention of CEPT is to remove any necessity for coordination of the terrestrial services, including IMT-2000 and systems beyond with the typical earth stations of the broadcasting-satellite service in frequency band 2520-2670 MHz. Therefore, given that the provisions of No. 9.19 may place undue constraints on the terrestrial services in the band 2520-2670 MHz band, where major developments in the terrestrial services are foreseen, it is proposed to deactivate its application in this band.

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