



Subject: WRC-27 Agenda 1.7

**Document 5D/XX-E
21 January 2026
English only**

IAFI¹

**FURTHER UPDATES TO THE ELEMENTS OF A WORKING DOCUMENT TOWARDS
PRELIMINARY DRAFT CPM TEXT FOR WRC-27 AGENDA ITEM 1.7**

1 Introduction

At the previous three meetings of Working Party (WP) 5D #48, #49 and #50, contributions from several members were received that initiated the creation of draft CPM text for WRC-27 agenda item 1.7. One of the areas that still need to be addressed in the Draft CPM text relates to defining the spectrum requirements for IMT in the longer term for implementation of IMT-2030.

Presently following bands are identified for IMT in mid bands on Regional, Global or in Some countries.

Frequency Bands	Global Identification	Some Regions/countries
1 427 – 1 518		91
1 710 – 2 025	315	
2 110 – 2 200	90	
2 300 – 2 400	100	
2 500 – 2 690	190	
3 300 – 3 400		100
3 400 – 3 600	200	
3 600 – 3 700	100	
3 700 – 3 800*		100
6 425 – 7 025*		600
7 025 – 7 125*		100
Total	995	991

Recently GSMA published a study on the future spectrum needs titled “Vision 2040: Future Spectrum Needs”. This study by GSMA projects that cities housing over 50% of the world’s urban population will face severe mid-band spectrum capacity constraints by 2030 if current spectrum levels persist, with dense urban areas requiring 650x more capacity than rural regions and

¹ [IAFI](#) is a sector member of ITU-R, ITU-T and ITU-D

generating 83% of traffic from just 5% of geographic area. The document forecasts a global average need of 2-3 GHz total mid-band spectrum in urban areas by 2035-2040 (2.5-4 GHz for high-demand countries, as against current identification of 1-2 GHz), recommending regulators prioritize 3.8-4.2 GHz and upper 6 GHz bands for mobile allocation around 2030, followed by 4.4-4.99 GHz and 7-8 GHz thereafter to support 6G penetration (24% market share, 2.1 billion connections by 2040). Driven by latency/capacity demands from generative AI video and extended reality applications, the report urges development of harmonized global spectrum roadmaps to enable operators to meet these escalating connectivity

Based on this study it seems that there is a shortage of 1-2 GHz of mid band spectrum.

In this document, we propose some additional text in the background section based on this recently published study. The proposed text in the background section has been included in the “**ELEMENTS OF A WORKING DOCUMENT TOWARDS PRELIMINARY DRAFT CPM TEXT FOR WRC-27 AGENDA ITEM 1.7**” in the attachment.

Attachment: 1Attachment

Annex 4.8 to Working Party 5D Chair’s Report

ELEMENTS OF A WORKING DOCUMENT TOWARDS PRELIMINARY DRAFT CPM TEXT FOR WRC-27 AGENDA ITEM 1.7*NOTE: This document was not reviewed and not agreed, therefore its inclusion is for information purposes only*

[Editor’s note: This document is only a compilation of input contributions received thus far and was not reviewed nor agreed during the WP 5D meetings in February, June and October 2025, and thus the tracked changes are kept for the proposals received at those meetings for future review.]

Concerns were expressed during the October 2025 meeting of WP 5D about some of the edits below (e.g. the removal of the information about the corresponding regions for the various frequency bands). It was emphasized that none of the edits below are agreed and are still subject to ongoing consideration to reach agreement. It was further clarified that the text needs to be in line with the way that the bands are listed in Resolution 256 (WRC-23). Sufficient time will need to be scheduled at the next meeting to allow a detailed review and updating of the text below to reach a more stable version as the basis for the further development of the text.]

CHAPTER 2

Fixed, mobile and radiolocation issues

(Agenda items 1.7, 1.8, 1.9, 1.10)

Agenda item 1.7

(WP 5D / WP 3K, WP 3M, WP 4A, WP 4C, WP 5A, WP 5B, WP 5C, WP 7B, WP 7C, WP 7D)

1.7 to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands

4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution 256 (WRC23);

Resolution 256 (WRC-23) – *Sharing and compatibility studies and development of technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz for the terrestrial component of IMT*

2/1.7/1 Executive summary

[Text of the executive summary, not more than half a page of text to describe briefly the purpose of the agenda item, summarize the results of the studies carried out and, most importantly, provide a brief description of the method(s) identified that may satisfy the agenda item]. [Editor's Note: Different band structures were proposed in various input contributions by Member States and this should be reviewed further. See Section 4.]

2/1.7/2 Background

[Text of the background, not more than half a page of text to provide general information in a concise manner, in order to describe the rationale of the agenda items (or issue(s))].

WRC-27 agenda item 1.7 focuses on the identification of additional frequency bands for the terrestrial component of International Mobile Telecommunications (IMT), as outlined in Resolution 265 (WRC-23). It calls for studies addressing technical, operational, and regulatory considerations in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz, and 14.8-15.35 GHz. These studies aim to support the growing demand for IMT, particularly in the context of IMT-2030, which emphasizes ultra-low latency and high-data-rate applications.

IMT-2030 requires harmonized spectrum allocations to enable global roaming and economies of scale. As the demand for IMT services grows, contiguous spectrum blocks become essential for supporting emerging applications. The studies would also evaluate sharing and compatibility to ensure IMT's deployment does not interfere with existing primary services, including those in international waters and airspace, and to protect adjacent bands without adding regulatory burdens.

At WRC-27, based on the results of study, the identification of all or parts of these frequency bands will be considered in different regions. The goal is to address the growing IMT needs while ensuring compatibility with existing services, fostering technological advances, and supporting developing countries.

2/1.7/3 Summary and Analysis of the results of ITU-R studies

[This section should contain a summary of the technical and operational studies performed within ITU-R, including a list of relevant ITU-R Recommendations. Depending on the agenda item, this section could be divided in two parts, one part dealing with the summary and the other part dealing with the analysis.]

The results of the ITU-R studies should also be analysed with respect to the possible methods of satisfying the agenda item and presented in a concise manner.]

1/1.7/3.1 Relevant ITU-R Recommendations and Reports

[Text to be developed.]

1/1.7/3.2 Sharing and compatibility studies

[Text to be developed.]

1/1.2/3.2.1 Frequency range 4 400-4 800 MHz

Within the frequency range 4 400-4 800 MHz, the FS, MS and FSS are allocated on a primary basis. The frequency bands adjacent to this frequency range are allocated to the AM(R)S, ARNS, FS and MS on a primary basis. The details of these allocations and those of the adjacent frequency bands can be found in the Radio Regulations (RR).

1/1.2/3.2.2 Frequency range 7 125-8 400 MHz

Within the frequency range 7 125-8 400 MHz, the FS, MS, SRS, EESS, MetSat, FSS, MMSS, MSS (see RR No. **5.461**) and SOS (see RR No. **5.459**) are allocated on a primary basis. The frequency bands adjacent to this frequency range are allocated to the FS, MS and SRS on a primary basis. The details of these allocations and those of the adjacent frequency bands can be found in the Radio Regulations.

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1/1.2/3.2.3 Frequency range 14.8-15.35 GHz

Within the frequency range 14.8-15.35 GHz, the FS, MS, and SRS are allocated on a primary basis. The frequency bands adjacent to this frequency range are allocated to the FS, MS, FSS, EESS (passive), RAS and SRS (passive) on a primary basis. The details of these allocations and those of the adjacent frequency bands can be found in the Radio Regulations.

2/1.7/4 Methods to satisfy the agenda item

[This section should contain the brief description of the Method or Methods to satisfy the agenda item as per section A2.4 of Annex 2 to [Resolution ITU-R 2-9](#)]

Band (based on Res. 256 (WRC-23))	Section
1 / 4 400-4 800 MHz in Region 1 and Region 3	2/1.7/4.1
2 / 7 125-8 400 MHz in Region 2 and Region 3	2/1.7/4.2
3 / 7 125-7 250 MHz in Region 1	2/1.7/4.3
4 / 7 750-8 400 MHz in Region 1	2/1.7/4.4
5 / 14.8-15.35 GHz globally	2/1.7/4.5

[Editor's note: Egypt proposes to retain the table structure above.]

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band (based on Res. 256 (WRC-23))	Section
1 / 4 400-4 800 MHz in Region 1 and Region 3	2/1.7/4.1

2 / 7 125-8 400 MHz in Region 2 and Region 3	2/1.7/4.2
3 / 7 125-7 250 MHz in Region 1	2/1.7/4.3
4 / 7 750-8 400 MHz in Region 1	2/1.7/4.4
5 / 14.8-15.35 GHz globally	2/1.7/4.5

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band (based on Res. 256 (WRC-23))	Section
1 / 4 400-4 800 MHz in Region 1 and Region 3	2/1.7/4.1
2 / 7 125-8 400 MHz in Region 2 and Region 3	2/1.7/4.2
3 / 7 125-7 250 MHz in Region 1	2/1.7/4.3
4 / 7 750-8 400 MHz in Region 1	2/1.7/4.4
5 / 14.8-15.35 GHz globally	2/1.7/4.5

2/1.7/4.1 Issue A: Frequency band 4 400-4 800 MHz

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2/1.7/4.1 Issue A: Frequency band 4 400-4 800 MHz

[Brief text describing Issue A]

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Brief text describing Issue A]

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[Brief text describing Issue A]

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Brief text describing Issue A]

2/1.7/4.1.1 Method A1: [title of Method A1, if any]

[Text describing the first method to satisfy Issue A]

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[Text describing the first method to satisfy Issue A]

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[Text describing the second method to satisfy Issue A]

[Additional sections with text describing other methods to satisfy Issue A, if any]

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[Additional sections with text describing other methods to satisfy Issue A, if any]

2/1.7/4.1.2 Method A2: [title of Method A2, if any]

[Text describing the second method to satisfy Issue A]

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[Text describing the second method to satisfy Issue A]

[Additional sections with text describing other methods to satisfy Issue A, if any]

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[Additional sections with text describing other methods to satisfy Issue A, if any]

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[Text describing the second method to satisfy Issue A]

[Additional sections with text describing other methods to satisfy Issue A, if any]

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[Additional sections with text describing other methods to satisfy Issue A, if any]

2/1.7/4.2 Issue B: Frequency band 7 125-8 400 MHz

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2/1.7/4.2 Issue B: Frequency band 7 125-8 400 MHz

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2/1.7/4.2 Issue B: Frequency band 7 125-8 400 MHz

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2/1.7/4.2 Issue B: Frequency band 7 125-8 400 MHz

[Brief text describing Issue B]

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[Brief text describing Issue B]

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[Brief text describing Issue B]

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[Brief text describing Issue B]

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2/1.7/4.2.1 Method B1: [title of Method B1, if any]

[Text describing the first method to satisfy Issue B]

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[Text describing the first method to satisfy Issue B]

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[Text describing the first method to satisfy Issue B]

2/1.7/4.2.2 Method B2: [title of Method B2, if any]

[Text describing the second method to satisfy Issue B]

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[Text describing the second method to satisfy Issue B]

[Additional sections with text describing other methods to satisfy Issue B, if any]

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[Additional sections with text describing other methods to satisfy Issue B, if any]

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2/1.7/4.3 Issue C: Frequency band 14.8-15.35 GHz

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2/1.7/4.3 Issue C: Frequency band 14.8-15.35 GHz

[Brief text describing Issue C]

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2/1.7/4.3 Issue C: Frequency band 14.8-15.35 GHz

[Brief text describing Issue C]

2/1.7/4.3.1 Method C1: [title of Method C1, if any]

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2/1.7/4.3.1 Method C1: [title of Method C1, if any]

/

2/1.7/4.3.1 Method C1: [title of Method C1, if any]

[Text describing the first method to satisfy Issue C]

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[Text describing the first method to satisfy Issue C]

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[Text describing the first method to satisfy Issue C]

2/1.7/4.3.2 Method C2: [title of Method C2, if any]

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2/1.7/4.3.2 Method C2: [title of Method C2, if any]

[Text describing the second method to satisfy Issue C]

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[Additional sections with text describing other methods to satisfy Issue C, if any]

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[Additional sections with text describing other methods to satisfy Issue C, if any]

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[Text describing the second method to satisfy Issue C]

[Additional sections with text describing other methods to satisfy Issue C, if any]

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[Additional sections with text describing other methods to satisfy Issue C, if any]

2/1.7/5 Regulatory and procedural considerations

2/1.7/5.1 For Issue A: Frequency band 4 400-4 800 MHz

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2/1.7/5.1 For Issue A: Frequency band 4 400-4 800 MHz

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2/1.7/5.1 For Issue A: Frequency band 4 400-4 800 MHz

2/1.7/5.1.1 For Method A1: [title of Method A1]

[Example(s) of regulatory text for the first method to satisfy Issue A]

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[Example(s) of regulatory text for the first method to satisfy Issue A]

2/1.7/5.1.2 For Method A2: [title of Method A2]

[Example(s) of regulatory text for the second method to satisfy Issue A]

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[Example(s) of regulatory text for the second method to satisfy Issue A]

[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue A, if any]

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[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue A, if any]

2/1.7/5.2 For Issue B: Frequency band 7 125-8 400 MHz

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2/1.7/5.2 For Issue B: Frequency band 7 125-8 400 MHz

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2/1.7/5.2 For Issue B: Frequency band 7 125-8 400 MHz

2/1.7/5.2.1 For Method B1: [title of Method B1]

[Example(s) of regulatory text for the first method to satisfy Issue B]

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[Example(s) of regulatory text for the first method to satisfy Issue B]
2/1.7/5.2.2 For Method B2: [title of Method B2]

[Example(s) of regulatory text for the second method to satisfy Issue B]

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[Example(s) of regulatory text for the second method to satisfy Issue B]

[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue B, if any]

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[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue B, if any]

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[Example(s) of regulatory text for the second method to satisfy Issue B]

[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue B, if any]

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[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue B, if any]

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2/1.7/5.3 For Issue C: Frequency band 14.8-15.35 GHz

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2/1.7/5.3 For Issue C: Frequency band 14.8-15.35 GHz

2/1.7/5.3.1 For Method C1: [title of Method C1]

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2/1.7/5.3 For Issue C: Frequency band 14.8-15.35 GHz

2/1.7/5.3.1 For Method C1: [title of Method C1]

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2/1.7/5.3.1 For Method C1: [title of Method C1]

[Example(s) of regulatory text for the first method to satisfy Issue C]

/

[Example(s) of regulatory text for the first method to satisfy Issue C]

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[Example(s) of regulatory text for the first method to satisfy Issue C]

2/1.7/5.3.2 For Method C2: [title of Method C2]

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2/1.7/5.3.2 For Method C2: [title of Method C2]

[Example(s) of regulatory text for the second method to satisfy Issue C]

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[Example(s) of regulatory text for the second method to satisfy Issue C]

[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue C, if any]

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[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue C, if any]

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[Example(s) of regulatory text for the second method to satisfy Issue C]

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[Example(s) of regulatory text for the second method to satisfy Issue C]

[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue C, if any]

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[Additional sections with example(s) of regulatory text for the other methods to satisfy Issue C, if any]