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| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Document 74-E** |
|  | **7 October 2019** |
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| Brunei Darussalam/Cambodia (Kingdom of)/Korea (Republic of)/Lao People's Democratic Republic/Singapore (Republic of) | |
| proposals for the work of the conference | |
|  | |
| Agenda item 1.13 | |

1.13 to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **238 (WRC-15)**;

# 1 Introduction

This contribution provides views and proposals from multi-countries for WRC-19 agenda item 1.13 in terms of Condition A2a of the CPM Report for the frequency range 24.25-27.5 GHz.

# 2 Considerations

## 2.1 Importance to identify IMT spectrum bands above 24.25 GHz

From the Recommendation ITU-R M.2083 for IMT-2020 vision and study results on spectrum needs conducted by ITU-R Task Group 5/1 (TG 5/1), tens of GHz bandwidth would be required to realize IMT-2020 vision and to facilitate global momentum for developments and rollout timely.

## 2.2 Urgency for identified IMT spectrum above 24.25 GHz

Recently, many countries are establishing their policies to make available bands above 24.25 GHz for their IMT-2020 services around 2020 recommended by Recommendation ITU-R M.2083. There are plenty of global demands to use bands above 24.25 GHz for IMT-2020 around 2020. Taking into account these global demands, timely identification and technically harmonized IMT bands above 24.25 GHz at WRC-19 is significant.

## 2.3 Reasonable conditions to facilitate IMT-2020 using bands above 24.25 GHz

IMT-2020 supporting bands above 24.25 GHz is totally new technology using advanced technologies such as beam array antenna, beam tracking and RFIC. These new technical paradigms controlling interference issues can support co-existence between IMT-2020 and other services. From this aspect, not only protection of other services but also promotion of new services by IMT‑2020 should be considered with reasonable balance, under co-primary basis.

Unwanted emission levels for BS and UE of IMT-2020 in the 24.25-27.5 GHz to protect EESS (passive) in the 23.6-24 GHz is one of the key discussion items under Condition A2a in the [CPM Report](https://www.itu.int/md/R15-CPM19.02-R-0001/en). From administrations’ regulatory point of view, some countries have already been decided their regulations addressing -20 dB(W/200 MHz) for BS and UE, which is totally same with the unwanted emission limit defined by 3GPP. Also several regional preparatory groups for WRC-19 have been decided their positions to support unwanted emission limits for base and mobile stations based on balance between facilitation of IMT-2020 service and protection of near adjacent band service.

# 3 Proposal

Taking into account above, followings are proposed for unwanted emission limits:

– To revise RR No. **5.338A**.

– To revise Resolution **750 (Rev.WRC-15)**.

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD BRU/CBG/KOR/LAO/SNG/74/1#49841

5.338AIn the frequency bands 1 350-1 400 MHz, 1 427-1 452 MHz, 22.55-23.55 GHz, 24.25-24.75 GHz, 30-31.3 GHz, 49.7‑50.2 GHz, 50.4-50.9 GHz, 51.4-52.6 GHz, 81-86 GHz and 92-94 GHz, Resolution **750 (Rev.WRC‑19)** applies.     (WRC‑19)

**Reasons:** The identification of the band 24.25-27.5 GHz to IMT will require limits in Resolution **750 (Rev.WRC-15)** to ensure near adjacent band compatibility with EESS (passive) in the band 23.6-24.0 GHz.

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RESOLUTION 750 (Rev.WRC‑19)

Compatibility between the Earth exploration-satellite service (passive) and relevant active services

The World Radiocommunication Conference (Sharm el-Sheikh, 2010),

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TABLE 1-1

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| --- | --- | --- | --- |
| EESS (passive) band | Active service band | Active service | Limits of unwanted emission power from active service stations in a specified bandwidth within the EESS (passive) band1 |
| ... | ... | ... | ... |
| 23.6-24.0 GHz | 24.25-24.75 GHz | Mobile | −28 dBW in any 200 MHz in the EESS (passive) band for IMT base stations  −24 dBW in any 200 MHz in the EESS (passive) band for IMT mobile stations |
| ... | ... | ... | ... |

...

**Reasons:** The identification of the band 24.25-27.5 GHz to IMT will require limits in Resolution **750 (Rev.WRC-19)** to ensure near adjacent band compatibility with EESS (passive) in the band 23.6-24.0 GHz.

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