

RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE

**Proposed Allocation of the 60 GHz Band to
the Mobile and the Fixed Services**

Introduction

This paper seeks Members' views on the proposed allocation of the 57 – 66 GHz band (“the 60 GHz band”), which is largely unplanned now, to the mobile and the fixed services on a primary basis.

Background

2. At previous SSAC meetings, we introduced 60 GHz Multiple Gigabit Wireless Systems (“MGWS”) to Members under [SSAC Papers 12/2013](#) and [7/2014](#). Since then, we have continued to keep in view the allocation of the 60 GHz band by overseas regulators and the development of consumer products featured with MGWS technologies.

3. Products featured with MGWS technology like projectors, notebook computers, video transceivers have been available on the international market for some time. According to latest market information, the availability of MGWS products would keep growing. In addition to MGWS, the 60 GHz band can also be used by other types of short range devices in many countries. Most European countries, the United States of America, the Mainland China, Australia, Japan, Korea and Singapore have allocated the 60 GHz band or a portion of it to the mobile and the fixed services for short range applications. There is a need for allocation of the 60 GHz band to the mobile and the fixed services in Hong Kong to cater with short range applications, including MGWS applications.

Proposed Frequency Allocation

4. In Hong Kong, the allocation of the 60 GHz band remains to be planned, except for the band 61 – 61.5 GHz which is allocated to the radiolocation service and the Industrial, Scientific and Medical (“ISM”) service

on a primary basis. The detailed frequency allocation table for the band 57 – 66 GHz is given at the Annex.

5. According to the Radio Regulations published by the International Telecommunication Union, the 60 GHz band is allocated to the mobile and the fixed services on a primary basis globally. Thus, the proposed allocation of this band to these services in Hong Kong is in compliance with the Radio Regulations.

Recommendation

6. It is recommended that the 57 – 66 GHz band be allocated to the mobile and the fixed services on a primary basis in Hong Kong.

Advice Sought

7. Members are invited to comment on the recommendation in paragraph 6 above.

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Region 3 and Hong Kong Allocation of the 60 GHz Band

REGION 3 ALLOCATION	HONG KONG ALLOCATION
57-58.2 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE SPACE RESEARCH (passive)	57-61 GHz TO BE PLANNED
58.2-59 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	
59-59.3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE RADIOLOCATION SPACE RESEARCH (passive)	
59.3-64 GHz FIXED INTER-SATELLITE MOBILE RADIOLOCATION [1]	
64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile	61-61.5 GHz RADIOLOCATION INDUSTRIAL, SCIENTIFIC AND MEDICAL (ISM)
65-66 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH	61.5-66 GHz TO BE PLANNED

[1] The band 61 – 61.5 GHz is designated for industrial, scientific and medical (“ISM”) applications.