

RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE

**Proposed Revision to HKCA 1065 Performance Specification for
Multi-Standard (MSR) Radio Base Station**

Introduction

This paper proposes the adoption of the following revised HKCA specification:

HKCA 1065 Issue 3	Performance Specification for Multi-Standard Radio (MSR) Base Station
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Background

2. HKCA 1065 sets out the minimum performance requirements for MSR base stations which operate simultaneously with a combination of mobile access standards, namely, Global System for Mobile communications (“GSM”), Universal Terrestrial Radio Access (“UTRA”) as well as Evolved Universal Terrestrial Radio Access (“E-UTRA”). Drawing reference to the harmonised standard EN 301 908-18¹ published by the European Telecommunications Standards Institute (“ETSI”), HKCA 1065 was first proposed in [SSAC Paper 7/2013](#) which at the relevant time only covered paired frequency bands² for GSM, UTRA and E-UTRA mobile access standards. In [SSAC Paper 4/2015](#), the unpaired frequency band 2300 – 2390 MHz was added in Issue 2 of HKCA 1065. As of July 2017, there were 40 models of MSR base stations certified to HKCA 1065.

¹ EN 301 908-18 “IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)”

² The paired frequency bands are (i) 890 – 915 MHz / 925 - 960 MHz; (ii) 1710 - 1785 MHz / 1805 - 1880 MHz; (iii) 1920 - 1980 MHz / 2110 - 2170 MHz; and (iv) 2500 – 2570 MHz / 2620 – 2690 MHz.

Proposed Revision to HKCA 1065 Specification

3. In the current version of HKCA 1065, clause 3.2 requires that MSR base stations capable of being configured to operate in a single standard mode (i.e. E-UTRA, UTRA or GSM) shall comply with the HKCA performance specification relevant to the concerned standard. The Office of the Communications Authority (“OFCA”) has recently received industry comments that the recent version of EN 301 908-18 has covered the compliance testing requirements for MSR base stations when configured as base stations operating in a single standard.

4. Having considered the development of EN 301 908-18, it is proposed that HKCA 1065 be revised such that MSR base stations may either comply with the respective single standard requirements stipulated in EN 301 908-18 or the relevant HKCA specifications if they are capable of operating in a single standard mode. Copy of the proposed revision to HKCA 1065 (HKCA 1065 Issue 3) is given at Annex.

Certification Requirement

5. In line with base stations deployed in public telecommunications services, MSR base stations are classified under the Compulsory Certification Scheme of the Hong Kong Telecommunications Equipment Evaluation and Certification Scheme. Such equipment must be certified before they can be used in Hong Kong.

WTO Notification

6. As the proposed Issue 3 of HKCA 1065 is based on open standards, notification to the World Trade Organisation (WTO) is therefore not required.

Recommendation

7. It is recommended that the proposed revision to HKCA 1065 as given in Annex be submitted to the Communications Authority for adoption.

Advice Sought

8. Members are invited to give their comments on the recommendation above.

Office of the Communications Authority
August 2017