

**RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE**

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

**Purpose**

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

HKCA 1065      Performance Specification for Multi-Standard  
Issue 2              Radio (MSR) Base Station

**Background**

2.              At the 3rd SSAC Meeting held on 23 January 2013, [SSAC Paper 4/2013](#) was introduced to solicit the views of members about the proposal to develop a HKCA specification for MSR base stations. A new specification HKCA 1065 was subsequently adopted with a view to facilitating the deployment of MSR base stations in the mobile industry. As of today, there are 13 models of MSR base stations certified to HKCA 1065.

3.              HKCA 1065 adopts EN 301 908-18<sup>1</sup> standard for the conformity assessment of MSR base stations. The frequency bands covered in the current version of HKCA 1065 are based on EN 301 908-18 in force in early 2013. The commonly used paired frequency bands<sup>2</sup> for GSM, UTRA FDD and E-UTRA FDD mobile services are incorporated in HKCA 1065.

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<sup>1</sup> 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)”, published by the European Telecommunications Standards Institute

<sup>2</sup> The paired frequency bands covered in HKCA 1065 are: (i) 880 - 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.

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4. With the advent of technology and equipment support, the unpaired frequency band in 2300 - 2390 MHz (2.3 GHz band) has been deployed to provide E-UTRA TDD mobile network services in Hong Kong. HKCA 1072 stipulates the performance specification for E-UTRA TDD base stations operating in the 2.3 GHz band. In response to OFCA's enquiry, the mobile network operators operating E-UTRA TDD mobile network services in the 2.3 GHz band have expressed interest in using MSR base stations for their network deployment.

5. The latest version of EN 301 908-18 published in July 2014 has included the unpaired 2.3 GHz band for UTRA TDD and E-UTRA TDD radio access technologies. Having considered the industry demand for E-UTRA TDD MSR base stations in the 2.3 GHz band, it is recommended that the unpaired 2.3 GHz band be included in HKCA 1065. A copy of the proposed HKCA 1065 (Issue 2 of HKCA 1065) is given in Annex.

### **Certification Requirement**

6. 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**

7. As the proposed Issue 2 of HKCA 1065 is based on international standards, notification to the World Trade Organisation (WTO) is therefore not required.

### **Recommendation**

8. It is recommended that the proposed revision to HKCA 1065 as given in Annex be adopted by the Communications Authority.

## **Advice Sought**

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

**Office of the Communications Authority**  
**October 2015**