

**RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE**

**Proposed Performance Specification for Digital Fixed Link Equipment  
Operating in the 11 GHz band**

**Purpose**

This paper proposes the adoption of the following technical standard –

HKCA 1068 Issue 1	Performance specification for digital fixed link equipment operating in the 11 GHz frequency band
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**Background**

2. Digital fixed links operating in the 10.7 – 11.7 GHz band (the “11 GHz frequency band”) are used by network operators, public utilities and government departments for backhaul links applications. Under the Hong Kong Telecommunications Equipment Certification Scheme, fixed link equipment should be certified to comply with the technical standards prescribed by the Communications Authority. In the absence of relevant HKCA specification, digital fixed link equipment operating in the 11 GHz band had been certified against Type Acceptance Criteria prescribed by the then Telecommunications Authority.

3. In recent years, there has been an increase in the use of digital fixed links at the 11 GHz band for backhaul links of mobile networks. In order to facilitate equipment certification of digital fixed link equipment operating in the 11 GHz band in Hong Kong, it is necessary to adopt a relevant HKCA specification.

**Proposed HKCA 1068**

4. The European Telecommunications Standards Institute (ETSI) has

published a harmonized standard ETSI EN 302 217-2-2<sup>1</sup> which covers the technical requirements for digital fixed link equipment operating at various frequency bands, including the 11 GHz frequency band. Having considered the technical requirements and test procedures in the ETSI standard, it is recommended that ETSI EN 302 217-2-2 be adopted in the proposed HKCA 1068.

### **Certification Requirement**

5. Radio equipment for fixed links are classified under the Compulsory Certification Scheme of the Hong Kong Telecommunications Equipment Certification Scheme. Such equipment must be certified before it can be used in Hong Kong.

### **WTO notification**

6. As the proposed HKCA 1068 is based on open standards, notification to the World Trade Organisation (WTO) is not necessary.

### **Recommendation**

7. It is recommended that HKCA 1068 attached in the Annex be adopted by the CA.

### **Advice sought**

8. Members are invited to comment on the recommendation above.

**Office of the Communications Authority**  
**January 2014**

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<sup>1</sup> ETSI EN 302 217-2-2 entitles “Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive”