

RADIO SPECTRUM AND TECHNICAL STANDARDS ADVISORY COMMITTEE

**Proposed Performance Specifications for Digital Fixed Link Equipment
Operating in the 13 GHz band and 18 GHz band**

Purpose

This paper proposes the adoption of the following technical standards –

HKCA 1070 Issue 1	Performance specification for digital fixed link equipment operating in the 13 GHz frequency band
HKCA 1071 Issue 1	Performance specification for digital fixed link equipment operating in the 18 GHz frequency band

Background

2. Digital fixed links operating in the 12.75 – 13.25 GHz band (the “13 GHz frequency band”) and 17.7 – 19.7 GHz band (the “18 GHz frequency band”) are used by network operators, public utilities and government departments as wireless backhuls. Under the Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) 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 13 GHz and 18 GHz bands had been certified against Type Acceptance Criteria prescribed by the then Telecommunications Authority.

3. Recently, there is an increasing demand of using digital fixed links at the 13 GHz and 18 GHz bands for use as backhaul links. In order to facilitate certification of digital fixed link equipment operating in these two bands in Hong Kong, it is necessary to adopt the relevant HKCA specifications.

Proposed HKCA 1070 and HKCA 1071 Specifications

4. The European Telecommunications Standards Institute (ETSI) has published a harmonized standard ETSI EN 302 217-2-2¹ which covers the technical requirements for digital fixed link equipment operating at various frequency bands, including the 13 GHz and 18 GHz bands. 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 1070 and HKCA 1071 specifications.

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 they can be used in Hong Kong.

WTO notification

6. As the proposed HKCA 1070 and HKCA 1071 are based on open standards, notification to the World Trade Organisation (WTO) is not necessary.

Recommendation

7. It is recommended that HKCA 1070 and HKCA 1071 attached in the Annex 1 and 2 respectively be adopted by the CA.

Advice sought

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

Office of the Communications Authority
May 2014

¹ 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”