

**RADIO SPECTRUM AND TECHNICAL STANDARDS
ADVISORY COMMITTEE**

**Proposed Revision to HKCA 1056 and HKCA 1072 Performance
Specifications for Evolved Universal Terrestrial Radio Access (E-UTRA)
Base Station and Repeater**

Purpose

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

HKCA 1056 Issue 3	Performance Specification for Evolved Universal Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD) Base Station and Repeater
HKCA 1072 Issue 2	Performance Specification for Evolved Universal Terrestrial Radio Access (E-UTRA) Time Division Duplex (TDD) Base Station

Background

2. The current issues of HKCA 1056 (Issue 2) and HKCA 1072 (Issue 1) cover E-UTRA Frequency Division Duplex base station and repeater, and E-UTRA Time Division Duplex base station respectively, and draw reference to the harmonised European standards ETSI EN 301 908-1, ETSI EN 301 908-14 and ETSI EN 301 908-15 published by the European Telecommunications Standards Institute (“ETSI”).

3. However, given that some of frequency bands being used for mobile services in Hong Kong, such as the paired band 825 – 837.5 MHz / 870 – 882.5 MHz, are not covered by the abovesaid ETSI standards as they are not allocated to mobile services in the European countries, it is advisable that, for those remaining frequency bands, reference should be drawn to 3GPP TS 36.113, 3GPP TS 36.141 and 3GPP TS 36.143 published by the 3rd Generation Partnership Project (“3GPP”) for selected test items to ensure efficient use of radio spectrum and to avoid harmful interference.

Proposed Revision to Specifications HKCA 1056 and HKCA 1072

4. In view of the above considerations, revision to the existing specifications HKCA 1056 and HKCA 1072 is proposed to include both the relevant ETSI and 3GPP standards. Salient points of the proposed revision to specifications HKCA 1056 and HKCA 1072 are given below –

- (a) reference is drawn to 3GPP TS 36.113, 3GPP TS 36.141 and 3GPP TS 36.143, in addition to the ETSI standards;
- (b) the list of operating frequency bands is updated to include all relevant E-UTRA frequency bands in the ETSI and 3GPP standards;
- (c) Narrowband – Internet of Things (“NB-IoT”) base station is included in the scope for clarity; and
- (d) the titles of HKCA 1056 and HKCA 1072 are simplified.

The proposed revised specifications HKCA 1056 and HKCA 1072 are given at **Annex 1** and **Annex 2** respectively.

Certification Requirement

5. Equipment falling into the scope of HKCA 1056 and HKCA 1072 are classified under the Compulsory Certification Scheme of the Hong Kong Telecommunications Equipment Evaluation and Certification Scheme. Such equipment must be certified before it can be used in Hong Kong.

World Trade Organization (“WTO”) Notification

6. As the proposed revised specifications HKCA 1056 and HKCA 1072 are based on open standard, notification to the WTO is not required.

Recommendation

7. It is recommended that the proposed revised specifications HKCA 1056 and HKCA 1072 be submitted to the Communications Authority for adoption.

Advice Sought

8. Members are invited to provide comments on the recommendation above.

Office of the Communications Authority
July 2026