

**RADIO SPECTRUM AND TECHNICAL STANDARDS
ADVISORY COMMITTEE**

**Proposed Revision to HKCA 1075
Performance Specification for
Short-Range Radar Operating in the 79 GHz Band**

Purpose

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

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| HKCA 1075 Issue 2 | Performance Specification for Short-Range Radar Operating in the 79 GHz Band |
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Background

2. At the 12th SSAC Meeting held on 2 June 2016, [SSAC Paper 6/2016](#) was discussed which proposed a new HKCA 1075 specification covering the technical requirements of short-range radars operating in the 77 – 81 GHz band (“the 79 GHz band”) in Hong Kong mainly for automotive radars. With the industry support and in anticipation of the popularity of automotive radars, on 6 January 2017, the CA adopted HKCA 1075 specification and created a Class Licence for 79 GHz Automotive Radar (“79 GHz Radar”)¹. As a condition of the Class Licence, 79 GHz Radars shall comply with HKCA 1075 specification.

Proposed Revision to HKCA 1075 Specification

3. When prescribing HKCA 1075 Issue 1 in early 2016, the Office of the Communications Authority (“OFCA”) adopted the harmonized standard EN 302

¹ [https://www.coms-auth.hk/filemanager/statement/en/upload/390/CA_Statement_79_GHz_Radars_\(ENG\).pdf](https://www.coms-auth.hk/filemanager/statement/en/upload/390/CA_Statement_79_GHz_Radars_(ENG).pdf)

264-2² of the European Telecommunications Standards Institute, which was the only available standard for 79 GHz Radars at that time, while work has already been underway in the United States (“US”) and Japan to develop similar standards then. In March 2017, the Association of Radio Industries and Businesses (“ARIB”) of Japan revised the standard ARIB STD-T111 entitled “79 GHz Band High Resolution Radar” which expanded the operating frequency range of automotive radars from 78 – 81 GHz to 77 – 81 GHz band. In this connection, on 20 September 2017, the Federal Communications Commission published in the Federal Register³ its new rules of permitting the use of short-range radars in the 76 – 81 GHz band. Subject to meeting the rules stipulated in the new part 47 CFR Part 95 Subpart M⁴, any person is eligible to operate a radar in the 76 – 81 GHz band without an individual licence in the US.

4. Given these developments, the Motor Traders Association of Hong Kong has recently requested OFCA to consider incorporating the US and Japanese standards into HKCA 1075 specification such that automotive radars of imported cars which comply with the applicable European, US and Japanese standards can all be legitimately used in Hong Kong. Having considered the industry request and the technical requirements in ARIB STD-T111 and 47 CFR Part 95 Subpart M, it is proposed that these two standards be additionally adopted as alternative references in HKCA 1075 specification, with a view to facilitating the import of automotive radars to Hong Kong from different sources. A copy of the revised HKCA 1075 (HKCA 1075 Issue 2) is at Annex.

Certification Requirement

5. 79 GHz Radars are now classified under the Voluntary Certification Scheme of the Hong Kong Telecommunications Equipment Evaluation and Certification Scheme. For the avoidance of doubts, even if suppliers, manufacturers and dealers do not apply for certification of their 79 GHz Radars,

² ETSI EN 302 264-2 : Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

³ Permitting Radar Services in the 76-81 GHz Band - A Rule by the Federal Communications Commission on 9/20/2017 at: <https://www.federalregister.gov/documents/2017/09/20/2017-18463/permitting-radar-services-in-the-76-81-ghz-band>

⁴ Code of Federal Regulations (USA); Title 47 Telecommunication; Chapter 1 Federal Communications Commission, Part 95 Personal Radio Services: Subpart M – The 76 – 81 GHz Band Radar Service

they shall ensure that such radars for use in Hong Kong comply with HKCA 1075 specification.

WTO Notification

6. As the proposed revision to HKCA 1075 is based on open standard, notification to the World Trade Organisation (“WTO”) is not required.

Recommendation

7. It is recommended that the proposed revision to HKCA 1075 as given in Annex be submitted to the CA for adoption.

Advice Sought

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

Office of the Communications Authority
August 2018