



TECHNICAL SPECIFICATION

FOR

**WiFi/RLAN/BLUETOOTH 2.4 GHZ AND ANCILLARY
EQUIPMENT**

ISSUED BY

**BOTSWANA COMMUNICATIONS REGULATORY
AUTHORITY**

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Technical Specification for WiFi/RLAN/Bluetooth 2.4 GHz and Ancillary Equipment

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Scope

This specification applies to all WiFi/RLAN/Bluetooth 2.4 GHz and ancillary equipment to be used in Botswana.

Where terminal equipment supports more than one interface type, each interface must meet the requirements applicable to it. It may therefore be necessary to make reference to additional specifications.

Entry into Force

This specification shall enter into force on 15/01/2016.

Document History

Description	Status	Date
WiFi/RLAN/Bluetooth 2.4 GHz and Ancillary Equipment	Original V1.1	11/12/2015

Spectrum Allocation

The following frequency band has been allocated for use by WiFi/RLAN/Bluetooth 2.4 GHz and ancillary equipment in Botswana: 2400 – 2483.5 MHz.

Health, Safety, and Generic Emissions

The following universal specifications shall be applied.

TS0001: Health, Safety and Generic Emissions of Radio and Telecommunications Terminal Equipment.

Technical, Spectrum and EMC Requirements

The following specifications shall be applied.

ETSI EN 300 328 V1.9.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

ETSI EN 300 440-1 V1.6.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods

ETSI EN 300 440-2 V1.4.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

ETSI EN 301 489-1 V1.9.2

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

ETSI EN 301 489-17 V2.2.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

Important Note: The revision numbers of the documents given in the approval standard are the minimum standards that apply. Should updated versions of these documents be published, the latest version will always apply. This also applies to documents where no revision number is currently quoted.

Additional Requirements

No additional requirements exist for the private indoor use of WiFi/RLAN/Bluetooth equipment and applications. However, a licence must be obtained before equipment of this type can be used to offer public access or “hotspots” in Botswana. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical Standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site. www.etsi.org

CENELEC, IEC and CISPR standards may be obtained at cost from, or through www.cenelec.org and from www.iec.ch respectively.