



# **TECHNICAL SPECIFICATION**

**FOR**

**ROAD TRANSPORT TELEMATICS AND RELATED  
EQUIPMENT**

**ISSUED BY**

**BOTSWANA TELECOMMUNICATIONS AUTHORITY**

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# Technical Specification for Road Transport Telematics and related equipment

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## Scope

This specification applies to all road transport telematics and related 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 01/12/12.

## Document History

Description	Status	Date
First issue of type approval guidelines	Draft	2005
Second issues of type approval guidelines	Current	2007
Third issue of type approval	Revision 1	2012

## Spectrum Allocation

The following frequency bands have been allocated for use by road transport telematics and related equipment in Botswana: 76000 – 77000 MHz.

## Safety and EMC requirements

The following specifications shall be applied:

TS0001: Safety and EMC requirements of radio and telecommunications terminal equipment.

## Technical requirements

The following specifications shall be applied.

**EN 300 440**

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

**EN 300 674**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Traffic and Transport Telematics (RTTT)' Technical characteristics and test methods for Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s 250 kbit/s) operating in the 5.8 GHz Industrial, Scientific and Medical (ISM) band

**EN 301 091**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Road Transport and Traffic Telematics (RTTT); Radar equipment operating in the 76 GHz and 24 GHz range; Part 1: Technical requirements and methods of measurement

**EN 301 489-1**

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

**EN 301 489-3**

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

**Additional requirements**

No additional requirements exist for road transport telematics and related equipment at this time.

**Obtaining Technical standards**

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site. [www.etsi.org](http://www.etsi.org)