



TECHNICAL SPECIFICATION

FOR

**FIXED EARTH STATIONS AND ANCILLARY
EQUIPMENT**

ISSUED BY

BOTSWANA TELECOMMUNICATIONS AUTHORITY

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Technical Specification for Fixed Earth Stations and ancillary equipment

Contents

Scope	3
Entry into force.....	3
Document History.....	3
Spectrum Allocation	3
Safety and EMC requirements.....	3
Technical requirements	3
Additional requirements	4
Obtaining Technical standards.....	4

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Scope

This specification applies to all fixed earth stations 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 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

Frequencies are assigned on an individual licence basis for all fixed earth stations and ancillary equipment in Botswana.

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.

ETSI EN 301 459

Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 – 30.0 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive

ETSI EN 301 360

Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 27.5 – 29.5 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive

ETSI 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

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

The equipment considered in the present document comprises both the outdoor unit, usually composed of the antenna subsystem and associated upconverter, power amplifier and Low Noise Block (LNB) downconverter, and the indoor units, usually composed of receive and transmit logic as well as the modulator, including cables between these two units.

Additional requirements exist for the operation of fixed earth stations operating in Botswana. A licence must be obtained before equipment of this type can be used 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