



TECHNICAL SPECIFICATION

FOR

**EQUIPMENT CONNECTING TO ANALOGUE LEASED
LINE SERVICES**

ISSUED BY

BOTSWANA TELECOMMUNICATIONS AUTHORITY

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Technical Specification for Equipment Connecting to Analogue Leased Line Services

Contents

.....	Scope
.....	3
Entry into force.....	3
Document History.....	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 any equipment which offers an interface that may be connected to public 2 or 4 wire Analogue Leased Lines 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.

Equipment covered by this specification includes, but is not limited to, the Analogue Leased Line interfaces of the following equipment types:

- PBX
- Modems
- Answering machines
- Security alarms
- Remote telemetry

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

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 TBR 015 ed.1 (1997-01)

Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S); Attachment requirements for terminal equipment interface

ETSI TBR 017 ed.1 (1997-01)

Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 4-wire analogue leased lines (A4O and A4S); Attachment requirements for terminal equipment interface

Or

ETSI TS 103 021 –1 V.1.1.1 (2004-05)

Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 1: General aspects

ETSI TS 103 021 –2 V1.1.1 (2005-08)

Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 2: Basic transmission and protection of the network from harm

ETSI TS 103 021 –3 V1.1.2 (2003-09)

Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks (Basic Interworking with public network)

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 equipment connecting to analogue leased line services

Obtaining Technical standards

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