



# **TECHNICAL SPECIFICATION**

**FOR**

**EQUIPMENT CONNECTING TO 64Kbit/s SERVICES**

**ISSUED BY**

**BOTSWANA TELECOMMUNICATIONS AUTHORITY**

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# Technical Specification for Equipment Connecting to 64Kbit/s Services

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## Scope

This specification applies to any equipment which offers an interface that may be directly connected to public 64Kbit/s services 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 interfaces of the following service types:

- Frame relay
- N\*64kbit/s
- All other services which offer 64Kbit/s interfaces

## 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 014 ed.1 (1994-04)**

Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface

including

### **ETSI TBR 014/A1 ed.1 (1996-01)**

Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface

Or

### **ETSI EN 300 290 V1.2.1 (2001-07)**

Access and Terminals (AT); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Terminal equipment interface

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 64Kbit/s services

## 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)