



TECHNICAL SPECIFICATION

FOR

**EQUIPMENT CONNECTING TO 34 Mb/s DIGITAL
LEASED LINE SERVICES**

ISSUED BY

BOTSWANA TELECOMMUNICATIONS AUTHORITY

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Technical Specification for Equipment Connecting to 34 Mb/s Digital Leased Line Services

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Scope

This specification applies to any equipment which offers an interface that may be connected to public 34Mb/s Digital 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 Digital Leased Line interfaces of the following equipment types:

- Routers
- Frame relay equipment
- ATM equipment

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

It is recognised that a number of largely equivalent specifications exist for terminal equipment offering connection to E3 34Mbs services; it is also recognised that a great number of manufacturers continue to reference older ETSI specifications such as ETSI TBR 24 for this technology. Testing should be carried out to ensure compliance with either one of the following specifications:

ETSI EN 300 689

Access and Terminals (AT); 34Mbit/s digital leased line (D34U and D34S) Terminal equipment interface

ETSI TBR 24

Business TeleCommunications (BTC);
34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface

ACIF/ACA S0016 section 5.5

Requirements for Customer Equipment for connection to hierarchical digital interfaces

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 offering connection to analogue leased lines 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