



TECHNICAL SPECIFICATION

FOR

EQUIPMENT CONNECTING TO X.21 SERVICES

ISSUED BY

BOTSWANA TELECOMMUNICATIONS AUTHORITY

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Technical Specification for Equipment Connecting to X.21 Services

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Scope

This specification applies to any equipment which offers an interface that may be connected to public X.21 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
- X.25
- Other X.21 connections to leased lines

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.

ITU-T Recommendation X.21 :

Interface between Data Terminal Equipment and Data Circuit-terminating equipment for synchronous operation on Public Data Network

ITU-T Recommendation X.21 bis :

Use on Public Data Networks of Data Terminal Equipment (DTE) which is designed for interfacing to Synchronous V-Series Modems

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 X.21 services

Obtaining Technical standards

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